






















# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on Introduction to Programming (2023-24) 6th to 11th April, 2024

#### Students Enrollment Sheet





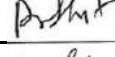




S.NO	Roll No.	Student Name	Department	Signature
1	18144	RAJ KIRIT SONI	CSE	
2	18145	ROHIT YADAV	CSE	
3	18146	RIDHI AHUJA	CSE	
4	18147	RIDHIMA GARG	CSE	
5	18148	RISHABH RAJ	CSE	
6	18149	RISHIKESH RAJ	CSE	
7	18150	RITIK SAROJ	CSE	
8	18151	RIMJHIM SHUKLA	CSE	
9	18152	ROHIT KUMAR	CSE	
10	18153	ROUNAK GOPAL	CSE	
11	18154	SAKSHI SRIVASTAVA	CSE	
12	18156	SANDHYA KUMARI	CSE	
13	18157	SANTOSH YADAV	CSE	
14	18158	SARTHAK DWIVEDI	CSE	
15	18159	SARTHAK SINGHAL	CSE	
16	18161	SATYAJEET PRABHASH	CSE	
17	18162	SATYAM MISHRA	CSE	
18	18163	SATYAM RAJPUT	CSE	
19	18164	SHAINA NAWAZ	CSE	
20	18165	SHAKSHI KUMARI	CSE	
21	18166	SHAURYA DHINGRA	CSE	
22	18167	SHASHANK MAURYA	CSE	



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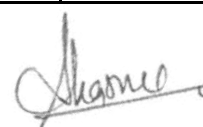
23	18168	SHIKHA SINGH	CSE	
24	18169	SHIVAM CHAUHAN	CSE	
25	18170	SHIVANGANI	CSE	
26	18171	SHIVAM MAURYA	CSE	
27	18172	SHREYA SHARMA	CSE	
28	18173	SHREYA TIWARI	CSE	
29	18175	SHRUTI KUMARI	CSE	
30	18176	SHRUTI SINGH	CSE	
31	18177	SHRUTIKA NEGI	CSE	
32	18184	SRISHTI YADAV	CSE	
33	18185	SUNIL KUSHWAHA	CSE	
34	18193	UTKARSH RAI	CSE	
35	18195	VAIBHAV BARANWAL	CSE	
36	18196	VAISHALI	CSE	
37	18198	VANDITA GAUTAM	CSE	
38	18199	VANSH GOEL	CSE	
39	18202	VANSH MEHTA	CSE	
40	18203	VANSH TOMAR	CSE	
41	18205	VANSHIKA SHARMA	CSE	
42	18206	VARTIK TRIPATHI	CSE	
43	18207	VARNIT MEHRA	CSE	
44	18208	VARUN BAHUGUNA	CSE	
45	18210	VIKRANT SINGH RANA	CSE	
46	18212	VISHAKHA SINGH	CSE	
47	18214	VIVEK RAI	CSE	
48	18336	NAYAN	CSE	
49	18337	NITU RANI	CSIT	
50	18338	NITYA ZIJOO	CSIT	
51	18339	NITIN KUMAR	CSIT	
52	18340	OJAS SOLANKI	CSIT	



53	18341	PARTH KALRA	CSIT	
54	18342	PIYUSH JATOLA	CSIT	
55	18343	PRAGATI SHARMA	CSIT	
56	18344	PRANAV MAURYA	CSIT	
57	18345	PRASHANT KUMAR	CSIT	
58	18350	RAHUL	CSIT	
59	18351	RAHUL KUMAR	CSIT	
60	18353	RAJAN PAL	CSIT	
61	18354	ROHAN RAJPUT	CSIT	
62	18355	ROCHIT GOEL	CSIT	



**Co-ordinator**  
**Dr. Pawan Kumar**  
**Sharma**



**Head of the Department**  
**Dr. Pawan Kumar Sharma**



**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. SHAINA NAWAZ** of **CSE Dept. (1st Year)** *has successfully completed six days Student Development Program on “Introduction to Programming ” from 6<sup>th</sup> to 11<sup>th</sup> April, 2024.*

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

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Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

Director  
Dronacharya Group of Institutions  
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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. ROHIT KUMAR** of **CSE Dept. (1st Year)** *has successfully completed six days Student Development Program on “Introduction to Programming ” from 6<sup>th</sup> to 11<sup>th</sup> April, 2024.*

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Introduction to Programming**

**Dates:** 6th – 11th April 2024

**Duration:** 36 Hours

**Target Students:** 1st Year Students from CSE and CSIT

**Organized by:** Department of Computer Science & Engineering (CSE) and Computer Science & Information Technology (CSIT)

**Academic Year:** 2023–24

### **Program Objectives**

- To build a **strong foundation in programming concepts and logic building.**
- To introduce students to **problem-solving using programming constructs.**
- To help learners write, debug, and execute code in a structured manner.
- To prepare students for **future courses in data structures, algorithms, and software development.**

### **Core Modules**

- 1. Introduction to Programming Fundamentals**
  - Understanding algorithms, flowcharts, and pseudocode
  - Introduction to variables, data types, and operators
- 2. Control Structures**
  - Conditional statements: if, if-else, switch-case
  - Looping: for, while, do-while
- 3. Functions and Modular Programming**
  - Function definition, declaration, and scope
  - Recursion and standard library functions
- 4. Arrays and Strings**
  - Single and multi-dimensional arrays
  - Basic string operations and manipulations
- 5. Problem Solving with Practice**
  - Logic-building exercises and dry runs
  - Debugging and optimization techniques
- 6. Mini Project and Practical Lab Sessions**
  - Hands-on coding in C/Python (as per department's choice)
  - A basic mini-project to consolidate learning



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## Tools & Platforms

- Code::Blocks / GCC Compiler
- Python IDLE / Jupyter Notebook
- Online Platforms: HackerRank, Replit, or VS Code

## Learning Outcomes

By the end of the program, students will:

- Understand and apply basic programming concepts
- Write efficient code to solve simple problems
- Develop algorithmic thinking and debugging skills
- Be confident to advance into courses like Data Structures and Algorithms



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## Evaluation Matrix

Component	Weightage
Lab Exercises & Assignments	40%
Mini Project	30%
Quizzes & Conceptual Tests	20%
Participation & Interaction	10%



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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on Business and Analytical Skill (2023-24) 18th to 23rd September, 2023, 2023


#### Students Enrollment Sheets

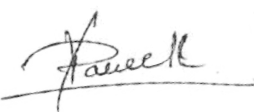
S.NO	Roll No.	Student Name	Department	Signature
1	18851	AARTI MOHAN	MBA	
2	18852	AYUSHI	MBA	
3	18853	AFTAB ALAM	MBA	
4	18854	ARPITA	MBA	
5	18855	NITIN MISHRA	MBA	
6	18856	NIDHI	MBA	
7	18857	NITIN KUMAR	MBA	
8	18858	RAVI SHANKAR KUMAR	MBA	
9	18860	RITAZ NAGAR	MBA	
10	18861	SATYAM KUMAR	MBA	
11	18862	SHEFALI SHREYA	MBA	
12	18863	SUSHMITA VISWAS	MBA	
13	18864	SHIVAM SINGH	MBA	
14	18865	SONIYA	MBA	
15	18866	TUSHAR CHANDILA	MBA	
16	18867	NEHA PAWAR	MBA	
17	18868	SHUBHAM GUPTA	MBA	
18	18869	VINAY RATHI	MBA	
19	18871	LALIT KUMAR SHARMA	MBA	

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20	18872	AJAY KUMAR SINGH	MBA	Ajay
21	18875	SUMIT KUMAR	MBA	Sumit
22	18876	AMIT SINGH	MBA	Amit
23	18878	ANUJ KUMAR	MBA	Anuj
24	18880	ASHISH	MBA	Ashish
25	18882	ATUL KUMAR	MBA	Atul

  
**Co-ordinator**  
**Prof. Sahab Singh**

  
**Head of the Department**  
**Dr. Vandana Pareek**

  
**Director**  
**Dronacharya Group of Institutions**  
**27, KP-III, Greater Noida-201306**



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Group of Institutions  
Greater Noida



**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. VINAY RATHI of MBA Dept. (1st Year) has successfully completed six days Student Development Program on “Business and Analytical Skill ” from 18<sup>th</sup> to 23<sup>rd</sup> September, 2023.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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Greater Noida



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. LALIT KUMAR SHARMA** of **MBA Dept. (1st Year)** *has successfully completed six days Student Development Program on “Business and Analytical Skill ” from 18<sup>th</sup> to 23<sup>rd</sup> September, 2023.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Business and Analytical Skills**

**Dates:** 18th – 23rd September 2023  
**Duration:** 30 Hours  
**Target Students:** MBA (All Specializations)  
**Organized by:** Department of MBA  
**Academic Year:** 2023–24

### **Program Highlights**

- Understand key concepts of the business environment and decision-making frameworks.
- Gain exposure to **data-driven strategies** and **analytical tools** used in real-world business scenarios.
- Learn Excel-based analysis, financial forecasting, and marketing insights.
- Engage in **hands-on labs**, **interactive workshops**, and **group problem-solving sessions**.

### **Key Modules**

1. **Business Fundamentals & Strategy Tools**
2. **Introduction to Business Analytics**
3. **Excel for Business Intelligence**
4. **Financial & Marketing Data Analysis**
5. **Capstone: Solve a Real-World Business Challenge**

### **Tools & Techniques**

- Microsoft Excel (Advanced Functions, Pivot Tables, Dashboards)
- Power BI / Tableau (Intro level demo)
- Business Case Studies & Simulations

### **Takeaways**

- Build analytical confidence and decision-making acumen
- Understand the application of business intelligence in strategy and operations
- Enhance employability with practical exposure to tools and techniques



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## Evaluation Method

Component	Weightage
Daily Activities & Tasks	30%
Individual Assignment	30%
Capstone Project & Viva	30%
Participation & Engagement	10%



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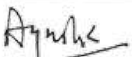
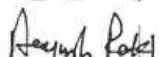


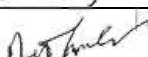

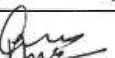


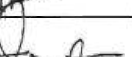

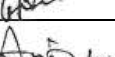
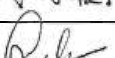
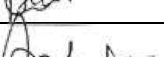
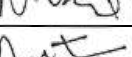
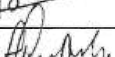
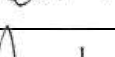
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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on programming and Computational Thinking (2023-24) 05th to 10th February, 2024

Students Enrollment Sheet				
S.NO	Roll No.	Student Name	Department	Signature
1	18001	AASHIT KHAN	CSE	
2	18002	AAYUSH KUMAR	CSE	
3	18003	AAYUSH POKHRIYAL	CSE	
4	18006	ABHAY	CSE	
5	18010	ADITI SINGH	CSE	
6	18011	ADITYA RAGHUBANSHI	CSE	
7	18012	ADITYA RATHOR	CSE	
8	18015	AKSHAT TOMAR	CSE	
9	18017	AKSHIT KUMAR	CSE	
10	18019	ALAKA PRADHAN	CSE	
11	18020	AMAN KUMAR	CSE	
12	18021	AMIT KUMAR	CSE	
13	18022	AMIT PRABHAKAR	CSE	
14	18023	AMIT RAWAT	CSE	
15	18026	ANISH KUMAR SINGH	CSE	
16	18027	ANJALI TIWARI	CSE	
17	18028	ANKIT DUBEY	CSE	
18	18029	ANKIT KUMAR	CSE	
19	18032	ANSH CHHETRI	CSE	
20	18034	ANSH SHARMA	CSE	
21	18036	ANURAG SRIVASTAVA	CSE	

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22	18038	ANUP CHAURASIA	CSE	Anup
23	18039	APARNA KUMARI	CSE	Aparna
24	18040	ARCHI JAIN	CSE	Arch
25	18041	ANURAG SINGH	CSE	Anurag
26	18042	AQDAS MIRZA	CSE	Aqdas
27	18047	AYUSH KOUNDEL	CSE	Ayush
28	18048	AYUSH KUMAR	CSE	Ayush
29	18049	AYUSHI KATIYAR	CSE	Ayushi
30	18052	BHAWANA SINGH	CSE	Bhavana
31	18054	BHOOMI BINDAL	CSE	Bhoomi
32	18055	BHOOMIKA JAINTH	CSE	Bhoomika
33	18057	CHIRAG RAWAT	CSE	Chirag
34	18058	DEEP JYOTI	CSE	Deep
35	18059	DEEKSHA VERMA	CSE	Deeksha
36	18060	DEEPANSHU	CSE	Deepanshu
37	18063	DEVANSH SHARMA	CSE	Devansh
38	18064	DEVINA GANDHI	CSE	Devina
39	18065	DIYA JOSHI	CSE	Diya Joshi
40	18066	DIVYANSH VERMA	CSE	Divyansh
41	18068	DIYA DEWA	CSE	Diya Dewa
42	18069	GARIMA SHARMA	CSE	Garima
43	18070	GAYATRI KUMARI	CSE	Gayatri
44	18071	GAURAV MISHRA	CSE	Gaurav
45	18075	HARSHI TYAGI	CSE	Harshi
46	18076	HARSHUL ARORA	CSE	Harshul
47	18077	HARSH CHOUBEY	CSE	Harsh
48	18079	HIMESH GUPTA	CSE	Himesh
49	18080	HARSH GUPTA	CSE	Harsh Gupta

Director

50	18082	HARSHITA BAIN	CSE	Harshita
51	18083	ISHA CHAND	CSE	Isha
52	18084	ISHIKA JAIN	CSE	Shikha
53	18086	JYOTI MISHRA	CSE	Jyoti
54	18087	JIGYASA GARG	CSE	Jigyasa
55	18088	JIYA PANDEY	CSE	Jiya
56	18092	KAPIL SOLANKI	CSE	Kapil
57	18093	KAVISHEK	CSE	Kavishek
58	18094	KHUSHI MISHRA	CSE	Khushi
59	18095	KHUSHI SINGH	CSE	Khushi
60	18099	KRISH RAWAT	CSE	Krish
61	18100	KRISH SHARMA	CSE	Krish
62	18103	LALIT KUMAR	CSE	Lalit
63	18104	MANAN ARORA	CSE	Manan
64	18106	MANISH	CSE	Manish
65	18107	MAYANK	CSE	Mayank
66	18108	MANYA GARG	CSE	Manya
67	18111	MEHER ANSHU	CSE	Meher
68	18112	MIHIR PRABHAKAR	CSE	Mihir
69	18114	MOHAK MEHTA	CSE	Mohak
70	18116	NAMAN JAIN	CSE	Naman
71	18117	MD KASIF AZAD	CSE	Kasif
72	18118	NAMRITA KUMARI	CSE	Namrita
73	18119	NANDINI MISHRA	CSE	Nandini
74	18121	NEHA VERMA	CSE	Neha
75	18122	NITESH KUMAR	CSE	Nitesh
76	18124	NISHANT JHA	CSE	Nishant
77	18126	NITISH KUMAR	CSE	Nitish

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78	18127	NRITI SHUKLA	CSE	<i>N Shukla</i>
79	18128	PARIDHI SHARMA	CSE	<i>Paridhi</i>
80	18130	PARMEET SINGH	CSE	<i>Parmeet</i>
81	18134	PRACHI KUMARI	CSE	<i>Prachi K</i>
82	18135	PRAJAKTA SINHA	CSE	<i>Prajakta</i>
83	18136	PRANJAL	CSE	<i>Pranjal</i>
84	18138	PRINCE	CSE	<i>Prince</i>
85	18139	PRAKHYAT PATEL	CSE	<i>Prakhyat</i>
86	18141	RAHUL	CSE	<i>Rahul</i>
87	18174	SHUBHAM JHA	CSE	<i>Shubham</i>
88	18182	SOURAV UPRETI	CSE	<i>Sourav</i>
89	18183	SRISHTI BIDHURI	CSE	<i>Srishti</i>
90	18187	SUMIT SINGH	CSE	<i>Sumit</i>
91	18188	TANUJ SHARMA	CSE	<i>Tanuj</i>
92	18189	TANVI GUPTA	CSE	<i>Tanvi</i>
93	18251	AASHISH BHADOURIA	CSIT	<i>Aashish</i>
94	18252	AJAY	CSIT	<i>Ajay</i>
95	18253	ABHAY TYAGI	CSIT	<i>Abhay</i>
96	18255	ABHINAV JAIN	CSIT	<i>A Jain</i>
97	18257	ABHISHEK PATEL	CSIT	<i>Abhishek</i>
98	18258	ABHISHEK SHARMA	CSIT	<i>Abhishek</i>
99	18260	ADITYA JAISWAL	CSIT	<i>Aditya J</i>
100	18261	ADITYA SHARMA	CSIT	<i>Aditya S</i>
101	18264	AMAN SHARMA	CSIT	<i>Aman</i>
102	18268	ANKIT SHUKLA	CSIT	<i>Ankit</i>
103	18269	ANIKET SHARMA	CSIT	<i>Aniket</i>
104	18270	ANISHA	CSIT	<i>Anisha</i>
105	18273	ANUBHAV	CSIT	<i>Anubhav</i>

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106	18274	ANUJ BANSAL	CSIT	Anuj
107	18281	ASHWIN SHARMA	CSIT	Ashwin
108	18282	AYUSH SHARMA	CSIT	Ayush
109	18286	AYUSHMAN	CSIT	Ayushman
110	18290	CHIRAG BHATHEJA	CSIT	Chirag
111	18295	DHRUV KUMAR	CSIT	Dhruv
112	18296	DHRUV VARSHNEY	CSIT	Dhruv
113	18299	GAURAV KUMAR	CSIT	Gaurav
114	18301	HARI OM MISHRA	CSIT	Hari
115	18304	HARSH SAXENA	CSIT	Harsh
116	18308	JASWANT	CSIT	Jaswant
117	18309	JAYANT MEHTA	CSIT	Jayant
118	18313	KARAN SAHU	CSIT	Karan
119	18319	KHUSHI RANA	CSIT	Khushi
120	18323	KRITIKA PAL	CSIT	Kritika
121	18326	KUMKUM	CSIT	Kumkum
122	18328	KUNAL BHAKAT	CSIT	Kunal
123	18349	RABI MANDAL	CSIT	Rabi
124	18364	SHIVAM GUPTA	CSIT	Shivam
125	18374	SWEETY RAJ	CSIT	Sweety
126	18403	ABHISHEK SINGH	IT	Abhishek
127	18408	AKSHITA SHARMA	IT	Akshita
128	18413	ANUSHKA YADAV	IT	Anushka
129	18415	ARPIT MISHRA	IT	Arpit
130	18418	DEEPAK KUMAR	IT	Deepak
131	18422	DIVYANSH KUMAR	IT	Divyansh
132	18424	HARSHIT SINGH	IT	Harshit
133	18433	KULJEET KAUR	IT	Kuljeet

134	18462	YOGITA	IT	Yogita
135	18404	MEGHA VERMA	IT	Megha
136	18419	RUCHI	IT	Ruchi
137	18476	AAYUSHI	AIML	Aayushi
138	18480	AKSHAY THAKUR	AIML	Akshay
139	18481	ALOK KUMAR SINGH	AIML	Alok
140	18484	ANSH BHATT	AIML	Ansh
141	18489	AYUSH SINGH	AIML	Ayush
142	18490	CHESHTA SINGH	AIML	Cheshta
143	18494	DEEPTI SAINI	AIML	Deepthi
144	18497	DEVIKA KAKKAR	AIML	Devika
145	18501	DIYA SAXENA	AIML	Diya
146	18508	HRIDAY GUPTA	AIML	Hriday
147	18515	KARTIK GULATI	AIML	KGulati
148	18512	KADAMBANI	AIML	Kadambani
149	18517	MANSI BATRA	AIML	Mansi
150	18532	RAHUL JHA	AIML	Rahul
151	18534	SAHIL VERMA	AIML	Sahil
152	18538	SANSKAR SINGH	AIML	Sanskar
153	18552	AJAY YADAV	ECE	Ajay
154	18559	NIKHIL YADAV	ECE	Nikhil
155	18561	PANKAJ KUMAR	ECE	Pankaj
156	18563	PRIYANKA	ECE	Priyanka
157	18565	POOJA	ECE	Pooja
158	18567	SAKSHI PANDEY	ECE	Sakshi
159	18570	SHREYA BISHT	ECE	Shreya
160	18555	SHUBHANGI JOHRI	ECE	Shubhangi
161	18557	SHWETA POPLI	ECE	Shweta

162	18572	TARUNA JOSHI	ECE	
163	18578	KANIKA KHURANA	ECE	
164	18581	CHIRAG DAWAR	ECE	
165	18585	GAJENDRA SINGH	ECE	
166	18587	GAURAV SINGH	ECE	
167	18595	DISHANT PASSI	EEE	
168	18597	GAURI SINGH	EEE	
169	18598	ISHA GILL	EEE	
170	18638	AMAN GARG	EEE	



**Co-ordinator**  
**Dr. Pawan Kumar Sharma**



**Head of the Department**  
**Dr. Pawan Kumar Sharma**



**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. MAITRI GUPTA** of **IT Dept. (1st Year)** *has successfully completed six days Student Development Program on “Programming and Computational Thinking” from 5<sup>th</sup> to 10<sup>th</sup> February, 2024.*

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director





## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. ADITYA RAGHUBANSHI of CSE Dept. (1st Year) has successfully completed six days Student Development Program on “Programming and Computational Thinking” from 5<sup>th</sup> to 10<sup>th</sup> February, 2024.**

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

## **Certificate Program on Programming and Computational Thinking**

**Target Students:** 1st Year students of CSE, CSIT, AIML, and ECE

**Duration:** 30 Hours

**Dates:** 05th – 10th February 2024

**Academic Year:** 2023–24

**Departments:** CSE, CSIT, AIML, ECE

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### **Program Objectives:**

- To build a strong foundation in programming logic and structured thinking.
- To enhance problem-solving abilities using computational techniques.
- To introduce algorithmic thinking and flowchart design.
- To prepare students for coding interviews and programming competitions.

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### **Program Schedule and Key Topics:**

<b>Day</b>	<b>Topics Covered</b>	<b>Methodology</b>
<b>Day 1</b>	Introduction to Programming & Computational Thinking Flowcharts, Algorithms, and Pseudocode	Lecture + Practice
<b>Day 2</b>	Variables, Data Types, Operators, Input/Output	Hands-on Coding (C/Python)
<b>Day 3</b>	Control Structures – Conditional Statements and Loops	Coding Lab
<b>Day 4</b>	Functions and Recursion Problem-Solving with Decomposition	Lab + Discussion
<b>Day 5</b>	Arrays and Strings Simple Searching and Sorting Algorithms	Hands-on Practice
<b>Day 6</b>	Mini-Challenge: Solving Real-World Problems Using Code Final Quiz & Viva	Coding Challenge + Viva

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### **Tools & Platforms:**



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- Programming Languages: C or Python (based on student preference)
  - IDEs: CodeBlocks, VS Code, or online compilers like Replit / HackerRank
  - Problem Sets from HackerEarth / LeetCode / CodeChef (beginner level)
- 

### **Expected Learning Outcomes:**

By the end of this SDP, students will:

- Understand and apply basic programming constructs.
- Develop the ability to approach problems logically and break them down into manageable parts.
- Enhance their debugging, analytical, and coding skills.
- Be better prepared for future courses in Data Structures, Algorithms, and Competitive Programming.



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## Evaluation Matrix:

Component	Details	Weightage
<b>Daily Coding Tasks</b>	Based on logic-building and problem-solving exercises	30%
<b>Assignment</b>	Two coding problems with flowchart and logic explanation	30%
<b>Final Quiz &amp; Viva</b>	Covers programming concepts and logic-based questions	30%
<b>Participation</b>	Lab involvement, curiosity, and collaboration	10%

---



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## Group of Institutions

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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

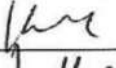
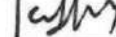
### SDP on Ethical Hacking (2023-24) 05th to 10th February, 2024.

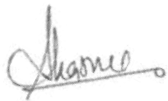
#### Students Enrollment Sheet

S.NO	Roll No.	Name	Dept.	Signature
1	18434	MAYANK SINGH	IT	
2	18435	MANAVI DOGRA	IT	
3	18436	MD. DANISH	IT	
4	18438	NIRBHAY SINGH	IT	
5	18439	NISHTHA	IT	
6	18440	OHM PANDEY	IT	
7	18441	PIYUSH JAIN	IT	
8	18442	PRIYANSHI RANJAN	IT	
9	18444	RISHABH KUSHWAHA	IT	
10	18445	RISHIT RAMAN	IT	
11	18446	VISHAL GUPTA	IT	
12	18447	SANKET SHARMA	IT	
13	18448	SHIVANI PAL	IT	
14	18449	SOUMYA NAMBOORI	IT	
15	18450	TOSHIKA SAHU	IT	
16	18451	UJJAL KUMAR GUPTA	IT	
17	18452	SUMIT KUMAR	IT	
18	18453	UTKARSH GUPTA	IT	
19	18455	VIVEKANAND JHA	IT	
20	18458	YASH BHATI	IT	
21	18461	YUVRAJ CHOUDHARY	IT	
22	18518	MAYANK	AIML	
23	18519	MUSKAN	AIML	
24	18521	NATISH PATHAK	AIML	
25	18523	NISHCHAY SHARMA	AIML	
26	18524	RUDRA BHUSHAN HINDWAN	AIML	
27	18525	PRANJAL YADAV	AIML	
28	18526	PRASHANT SINGH	AIML	

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29	18527	RAM NAGAR	AIML	Ram Nagar
30	18528	PRATIBHA MITTAL	AIML	Pratibha
31	18529	RACHIT SEHGAL	AIML	Rachit
32	18530	RITU CHAHAR	AIML	Ritu
33	18531	RIYA JAISWAL	AIML	Riya
34	18539	SHAGUN MAYANK	AIML	Shagun
35	18540	SHAURYA MEHRA	AIML	Shaurya
36	18541	SHRADDHA SHRI	AIML	Shraddha
37	18542	SHRUTI SHARMA	AIML	Shruti
38	18544	SULAKSHANA DAS	AIML	Sulakshana
39	18545	TVISHA DHYANI	AIML	TVisha
40	18548	VISHAL SINGH	AIML	Vishal
41	18549	YASH KARAKOTI	AIML	Yash
42	18550	YATI BHATNAGAR	AIML	Yati
43	18676	AASHISH PURI	ECZ	Aashish
44	18678	ABHINAV GAUR	ECZ	Abhinav
45	18679	ABHISHEK	ECZ	Abhishek
46	18680	AKSHAT THAKUR	ECZ	Akshat
47	18681	ALI VAQAR	ECZ	Ali
48	18682	ARYAN RAJ	ECZ	Aryan
49	18683	ANJALI PASWAN	ECZ	Anjali
50	18684	ANSHUL GOLA	ECZ	Anshul
51	18685	AYUSH GUPTA	ECZ	Ayush
52	18686	ARMAN SHUKLA	ECZ	Arman
53	18687	ASHU SHARMA	ECZ	Ashu
54	18688	AVIANSH SAINI	ECZ	Aviansh
55	18689	AYUSH ANAND	ECZ	Ayush
56	18690	CHETNA CHAUDHARY	ECZ	Chetna
57	18693	DIPESH NEGI	ECZ	Dipesh
58	18695	FARHAN SHAHAB	ECZ	Farhan
59	18697	GURNEET KAUR	ECZ	Gurneet
60	18699	HARSH GAUTAM	ECZ	Harsh
61	18701	HARSHIT CHAHAR	ECZ	Harshit
62	18702	HARSHITA	ECZ	Harshita
63	18705	JIGYASHU KUMAR	ECZ	Jigyashu

64	18706	KAJAL VERMA	ECZ	
65	18707	KASHISH	ECZ	



**Co-ordinator**  
**Dr. Pawan Kumar**  
**Sharma**



**Head of the Department**  
**Dr. Pawan Kumar Sharma**



**Director**  
**Dronacharya Group of Institutions**  
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Greater Noida

**Student Development Program**

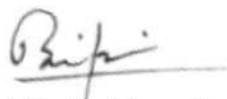
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** Nishtha **of** IT Dept. (1st Year)

*has successfully completed six days*

*Student Development Program on “ Ethical Hacking ”  
from 05th to 10th February, 2024.*



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



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27, KP-III, Greater Noida-201306

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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

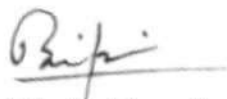
*This is to certify that*

**Mr./Ms.** VISHAL GUPTA **of** IT Dept. (1st Year)

*has successfully completed six days*

*Student Development Program on “ Ethical Hacking ”*

*from 05th to 10th February, 2024.*



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

## Student Development Program on Ethical Hacking

**Target Students:** 3rd Year B.Tech Students (IT, AIML, ECZ)

**Organizing Departments:** IT (Information Technology), AIML (Artificial Intelligence and Machine Learning), and ECZ (Electronics and Communication Engineering)

**Duration:** 5th – 10th February, 2024

**Total Hours:** 36 Hours

**Academic Year:** 2023–24

## Program Overview

This Skill Development Program aims to introduce students to the foundational principles of **Ethical Hacking** and **Cybersecurity**. Students will gain hands-on experience in identifying, exploiting, and securing vulnerabilities in network systems. The program will also cover ethical hacking tools, penetration testing, and security measures that professionals employ to safeguard systems and networks from malicious attacks.

Upon completion of this program, students will be equipped with the knowledge and skills required to work in the field of **cybersecurity** as ethical hackers, penetration testers, or cybersecurity analysts.

## Learning Outcomes

By the end of the program, students will:

1. Understand the **ethical hacking lifecycle** and the principles of **cybersecurity**.
2. Gain hands-on experience with **ethical hacking tools** (e.g., Kali Linux, Metasploit, Burp Suite).
3. Learn how to perform **penetration testing** and identify vulnerabilities in web applications and networks.
4. Understand **network security protocols**, encryption methods, and how to protect sensitive data.
5. Learn to use **footprinting**, **scanning**, and **exploitation** techniques in an ethical hacking context.
6. Develop skills to create secure environments and defend systems against **cyber-attacks**.

  
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## Program Structure

### Day 1: Introduction to Ethical Hacking

- Ethical Hacking and its scope
- **Types of hackers:** Black hat, white hat, and grey hat hackers
- Overview of ethical hacking tools and environment setup (Kali Linux)

### Day 2: Networking and OS Fundamentals for Hacking

- Understanding **TCP/IP**, **DNS**, and **HTTP** protocols
- Networking basics: LAN, WAN, routers, switches, firewalls
- Setting up and configuring a **secure environment** for ethical hacking

### Day 3: Information Gathering and Footprinting

- Techniques for gathering **publicly available information** (OSINT)
- **Footprinting** and **scanning** network systems
- Use of tools like **WHOIS**, **Netcraft**, and **Nmap** for reconnaissance

### Day 4: Vulnerability Analysis and Penetration Testing

- Identifying common vulnerabilities in networks and web applications
- **Penetration testing** methodologies (black box, white box, and grey box testing)
- Hands-on penetration testing exercises using **Metasploit** and **Burp Suite**

### Day 5: Exploitation and Post-Exploitation

- Techniques for exploiting vulnerabilities (e.g., **buffer overflow**, **SQL injection**, **cross-site scripting (XSS)**)
- Post-exploitation steps: maintaining access, clearing logs, and reporting

### Day 6: Network and Web Application Hacking

- Hacking **web applications** and bypassing security measures (firewalls, anti-virus, etc.)
- **Wi-Fi cracking** and **password sniffing**
- Secure coding practices to prevent vulnerabilities

### Day 7: Cybersecurity Defense Mechanisms

- Defending against hacking attempts and securing networks
- Use of **firewalls**, **IDS/IPS**, **VPNs**, and **encryption techniques**
- Creating an incident response and handling report



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## Teaching Methodology

- **Lectures & Demonstrations:** Detailed explanations of theoretical concepts, followed by practical demos.
- **Hands-on Lab Sessions:** Students will conduct vulnerability analysis, penetration testing, and ethical hacking exercises on virtual machines.
- **Group Projects:** Collaborative sessions to identify, exploit, and secure vulnerabilities in controlled environments.
- **Case Studies & Real-World Scenarios:** Analyzing previous cybersecurity incidents and applying ethical hacking techniques to understand attack methods.

## Expected Competencies After Program Completion

- Knowledge of **ethical hacking techniques** and ability to conduct penetration tests.
- Ability to identify, exploit, and secure vulnerabilities in real-world systems.
- Proficiency in using industry-standard **ethical hacking tools** like **Kali Linux**, **Metasploit**, and **Burp Suite**.
- Understanding of **cybersecurity protocols**, **network security** principles, and defense strategies.
- Preparedness to pursue further certifications in ethical hacking (e.g., CEH, OSCP).



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## Evaluation Criteria

Component	Weightage
Lab Exercises & Practical Sessions	40%
Class Participation & Engagement	20%
Final Assessment & Project	40%



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on Future-Ready Management: Building Leadership, Innovation, and Strategic Skills for a Dynamic Business World(2023-24) 21st to 26th September, 2023

#### Students Enrollment Sheet

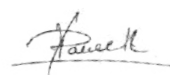
S.NO	Roll No.	Student Name	Department	Signature
1	17748	DANISH MUSTAFA	MBA	
2	17749	JATIN	MBA	
3	17752	SAMEER SAINI	MBA	
4	17753	RAVI SHEKHAR	MBA	
5	17754	RAJEEV RANJAN	MBA	
6	17756	AKASH WALIA	MBA	
7	17757	PAVNEET SINGH	MBA	
8	17758	ASHISH KUMAR	MBA	
9	17759	PARTH SARTHI	MBA	
10	17760	MANAN GIRI	MBA	
11	17761	ISHANT SINGH	MBA	
12	18885	BABITA	MBA	
13	18886	DEEPAK KUMAR PAL	MBA	
14	18887	DIVYA GUPTA	MBA	
15	18888	HARENDRA SINGH	MBA	
16	18889	HIMANSHU RANJAN	MBA	
17	18890	JAY PRAKASH YADAV	MBA	
18	18891	JITENDRA SINGH	MBA	



**Co-ordinator**  
**Prof. Sahab Singh**



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Head of the Department**  
**Dr. Vandana Pareek**



# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

<b>Title of the Program</b>	<b>Future-Ready Management: Building Leadership, Innovation, and Strategic Skills for a Dynamic Business World</b>
<b>Duration</b>	21st – 26th September 2023
<b>Total Hours</b>	30 Hours
<b>Target Students</b>	2nd Year MBA Students
<b>Organizing Department</b>	Department of Management Studies (MBA)
<b>Academic Year</b>	2023–24

### **Objectives**

- Equip students with leadership, strategic thinking, and innovation capabilities
- Enhance decision-making, adaptability, and change management skills
- Prepare students for roles in modern business ecosystems

### **Key Topics Covered**

<b>Module</b>	<b>Topics</b>
Leadership & Emotional Intelligence	Traits of future-ready leaders, ethical decisions
Strategic Thinking	SWOT, BCG, PESTLE, innovation-led models
Change & Innovation	Design Thinking, Lean Startup, managing resistance
Team Dynamics	Conflict resolution, motivation, negotiation
Entrepreneurship & Digital Agility	Growth mindset, business transformation through tech
Capstone	Leadership simulation or business strategy challenge

### **Methodology & Tools**

- Case Studies (HBR, IIM-A)
- Harvard Business Simulations
- Design Thinking Framework
- Role Plays, Brainstorming, Group Presentations



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## Evaluation Matrix

Component	Weightage
Case Studies & Group Activities	30%
Capstone Simulation/Challenge	30%
Class Participation & Reflection	20%
Attendance & Engagement	20%



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## Group of Institutions

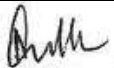
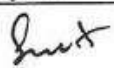
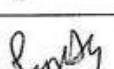
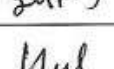
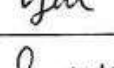

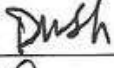
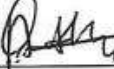
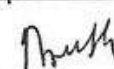
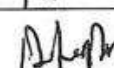
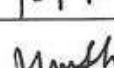
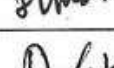
B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on Industrial Automation with PLC& SCADA (2023-24) 16th to 21th October, 2023

#### Students Enrollment Sheet

S.NO	Roll No.	Student Name	Department	Signature
1	17627	PRERAK SHUKLA	ME	
2	17628	SUMIT SINGH	ME	
3	17630	SAMARTH SHARMA	ME	
4	17631	VED TRIPATHI	ME	
5	17632	SAMEER TIWARI	ME	
6	17633	DEVESH AGARWAL	ME	
7	17635	AARUSH VERMA	ME	
8	17636	ARHAAN DUBEY	ME	
9	17637	ATUL MISHRA	ME	
10	17884	HIMANSHU KUMAR RANA	ME	
11	17886	ROHIT KUMAR	ME	
12	17889	VISHAL CHAUDHARY	ME	

  
Co-ordinator

Prof. Shailesh Kumar  
Singh

  
Head of the Department

Prof. Shailesh Kumar Singh



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. HIMANSHU KUMAR RANA of ME Dept. (2nd Year) has successfully completed six days Student Development Program on “ Industrial Automation with PLC & SCADA ” from 16<sup>th</sup> to 21<sup>th</sup> October, 2023.*

**Dr. Shailesh Kumar Singh**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. SAMEER TIWARI of ME Dept. (2nd Year) has successfully completed six days Student Development Program on “ Industrial Automation with PLC & SCADA ” from 16<sup>th</sup> to 21<sup>th</sup> October, 2023.*

**Dr. Shailesh Kumar Singh**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

## **Certificate Program on Industrial Automation with PLC & SCADA**

**Dates:** 16th – 21st October 2023

**Duration:** 30 Hours

**Target Students:** 3rd & 4th Year Mechanical Engineering Students

**Organized by:** Department of Mechanical Engineering

**Academic Year:** 2023–24

### **Program Objectives**

- To introduce students to the **fundamentals of industrial automation** and control systems.
- To provide hands-on experience in **Programmable Logic Controllers (PLC)** and **Supervisory Control and Data Acquisition (SCADA)** systems.
- To demonstrate how automation technologies are integrated into **modern manufacturing and process industries**.
- To prepare students for **industry-oriented roles** in automation and smart manufacturing.

### **Core Modules**

1. **Introduction to Industrial Automation**
  - Overview of automation systems and industrial applications
  - Types of control systems: Open-loop vs Closed-loop
2. **PLC Programming Basics**
  - Architecture and working of PLCs
  - Ladder logic programming and interfacing
3. **SCADA Systems**
  - Architecture and functionalities of SCADA
  - Human-Machine Interface (HMI) and data acquisition
4. **PLC & SCADA Integration**
  - Communication protocols (MODBUS, RS-232/485, Ethernet)
  - Real-time monitoring and control using SCADA
5. **Industrial Case Studies**
  - Application of PLC-SCADA in manufacturing, utilities, and automation systems
  - Safety protocols and system reliability
6. **Practical Workshop & Simulations**
  - PLC programming using software like Siemens TIA Portal / Allen-Bradley RSLogix
  - SCADA implementation using Wonderware / LabVIEW



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## **Tools & Platforms**

- Siemens / Allen-Bradley PLC Kits
- SCADA Software: Wonderware, LabVIEW, WinCC
- Simulation Tools: Factory I/O, Automation Studio

## **Learning Outcomes**

Upon successful completion, students will:

- Be able to write and simulate PLC programs for automation tasks
- Understand SCADA system architecture and perform HMI configuration
- Integrate sensors and actuators with control systems
- Demonstrate application-level knowledge in industrial automation setups



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## Evaluation Matrix

Component	Weightage
Practical Sessions & Lab Work	40%
Mini Project / Industrial Use Case	30%
Quizzes and Concept Tests	20%
Participation & Engagement	10%



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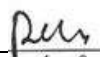
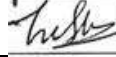
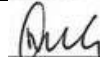
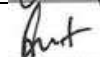
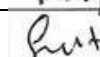
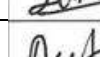
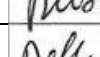
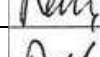
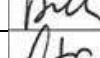
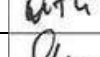
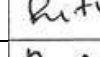

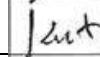
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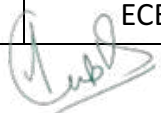
## Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on Wireless Communication (2023-24) 5th to 10th January, 2024

#### Students Enrollment Sheet

S.NO	University Roll No.	Student Name	Department	Signature
1	2002300317032	RAVI AGARWAL	ECE	
2	2002300319387	TUSHAR KUMAR	ECE	
3	2002300310039	RAHUL RAJPUT	ECE	
4	2002300319399	AMIT VALMIKI	ECE	
5	2002300310700	RAKESH VALMIKI	ECE	
6	2002300316618	SWATI KUMAR	ECE	
7	2002300310166	PRIYAM KUMAR	ECE	
8	2002300311857	JYOTI MEENA	ECE	
9	2002300317765	AMIT VERMA	ECE	
10	2002300310233	NEHA MEENA	ECE	
11	2002300310949	ANIL AGARWAL	ECE	
12	2002300313052	ANITA BISHT	ECE	
13	2002300313128	SHIVANI JADHAV	ECE	
14	2002300318928	SWATI GUPTA	ECE	
15	2002300317608	ANKITA GUPTA	ECE	
16	2002300315739	KAVITA AGARWAL	ECE	
17	2002300316972	SHIVANI RAJPUT	ECE	
18	2002300313980	KAVITA BISHT	ECE	
19	2002300314515	VIKAS KUMAR	ECE	
20	2002300316117	ANIL MEENA	ECE	
21	2002300314409	AMIT KUMAR	ECE	
22	2002300318171	RITU BISHT	ECE	
23	2002300310818	SHIVANI SHARMA	ECE	
24	2102300310928	ANKIT YADUVANSHI	ECE	
25	2102300310929	ASHUTOSH SINGH	ECE	



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26	2102300310930	SAHIL KUMAR AZMAREY	ECE	
27	2102300310931	GAURAV	ECE	
28	2102300310932	ATIK UR REHMAN	ECE	
29	2102300310933	NITISH KUMAR	ECE	
30	2002300009009	HIMANI SHARMA	ECZ	
31	2002300438719	RITU THAKUR	ECZ	
32	2002300974742	DEEPAK MISHRA	ECZ	
33	2002300857886	ANITA GUPTA	ECZ	
34	2002300504574	GARIMA CHAUDHARY	ECZ	
35	2002300816385	JYOTI KUMARI	ECZ	



**Co-ordinator**  
**Prof. Sanghamitra V Arora**



**Head of the Department**  
**Prof. Sanghamitra V Arora**



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Dronacharya Group of Institutions  
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Greater Noida



**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. KAVITA BISHT of ECE Dept. (4th Year) has successfully  
completed six days Student Development Program on  
“Wireless Communication”  
from 5<sup>th</sup> to 10<sup>th</sup> January, 2024.*

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Director  
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Greater Noida



**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*  
**Mr./Ms.** RITU BISHT *of* ECE Dept. (4th Year) *has successfully*  
*completed six days Student Development Program on*  
*“Wireless Communication”*  
*from 5<sup>th</sup> to 10<sup>th</sup> January, 2024.*

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **SDP on Wireless Communication**

**ECE & ECZ Departments | 2023-24 | January 5-10, 2024**

#### **Overview**

This program provides comprehensive training on modern wireless communication technologies, protocols, and system design. Participants will gain theoretical knowledge and practical skills through expert sessions and hands-on laboratories focusing on current industry standards and emerging trends.

#### **Key Learning Areas**

- Wireless communication fundamentals and RF basics
- Cellular technologies (4G/5G) and protocols
- Wireless network architecture and planning
- IoT wireless standards and implementations
- Signal processing for wireless systems
- Antenna design and radio propagation

#### **Daily Schedule**

**Day 1:** RF Fundamentals & Wireless Basics

**Day 2:** Cellular Technologies & Protocols

**Day 3:** Wireless Network Planning & Optimization

**Day 4:** IoT Communication Standards

**Day 5:** Antenna Systems & Signal Processing

**Day 6:** Emerging Technologies & Applications

  
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### Evaluation Components

Component	Weight
Technical Quizzes	20%
Lab Exercises	25%
Simulation Project	20%
Design Challenge	25%
Participation	10%



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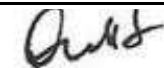
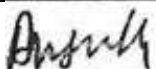

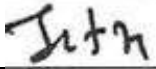
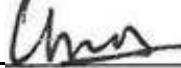
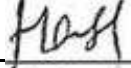

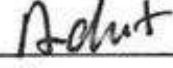
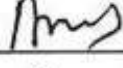
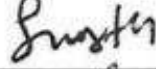
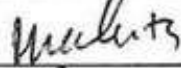
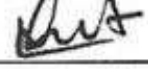
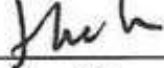
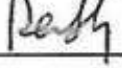

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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Certificate Program on Advanced Manufacturing and Industry 4.0 (2023-24) 19th to 24th February, 2024				
Students Enrollment Sheet				
S.NO	Roll No.	Student Name	Department	Signature
1	17611	ARIHANT JAIN	ME	
2	17612	AVNISH RATHOUR	ME	
3	17613	ADIRA CHAUHAN	ME	
4	17614	JATIN DUBEY	ME	
5	17615	UMANG GUPTA	ME	
6	17616	HANSH GUPTA	ME	
7	17617	YASH	ME	
8	17618	ADVAIT	ME	
9	17619	ANAY BHARDWAJ	ME	
10	17620	SAMARTH CHAUDHARY	ME	
11	17621	IVAN GUPTA	ME	
12	17622	ARIHANT SHUKLA	ME	
13	17623	HIRAN TRIPATHI	ME	
14	17624	PARAS SHARMA	ME	
15	17625	RAUNAK SHARMA	ME	

  
**Co-ordinator**  
**Prof. Shailesh Kumar Singh**

  
**Head of the Department**  
**Prof. Shailesh Kumar Singh**

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. YASH of ME Dept. (2nd Year) has successfully completed six days Student Development Program on “Advanced Manufacturing and Industry 4.0 ” from 19<sup>th</sup> to 24<sup>th</sup> February, 2024.*

**Dr. Shailesh Kumar Singh**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. PARAS SHARMA of ME Dept. (2nd Year) has successfully completed six days Student Development Program on “Advanced Manufacturing and Industry 4.0 ” from 19<sup>th</sup> to 24<sup>th</sup> February, 2024.*

**Dr. Shailesh Kumar Singh**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

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## Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on Advanced Manufacturing and Industry 4.0

**Dates:** 19th – 24th February 2024

**Duration:** 30 Hours

**Target Students:** 3rd & 4th Year Mechanical Engineering Students

**Organized by:** Department of Mechanical Engineering

**Academic Year:** 2023–24

### Program Objectives

- To provide students with a comprehensive understanding of **advanced manufacturing techniques** and their role in **smart production systems**.
- To explore **Industry 4.0 technologies**, such as IoT, AI, Big Data, and Automation, within the context of modern manufacturing.
- To enable learners to analyze the impact of **cyber-physical systems** on industrial efficiency and sustainability.
- To foster awareness about the **future of manufacturing careers** and global industrial trends.

### Core Modules

1. **Introduction to Advanced Manufacturing**
  - Overview of modern machining and non-conventional processes
  - Additive manufacturing and 3D printing
2. **Fundamentals of Industry 4.0**
  - Evolution from Industry 1.0 to 4.0
  - Concepts: Smart Factory, Cyber-Physical Systems, IIoT
3. **Digital Twin and Simulation Tools**
  - CAD/CAM integration
  - Virtual prototyping and real-time monitoring
4. **Automation, Robotics & AI in Manufacturing**
  - Role of PLCs, sensors, and actuators
  - Use of AI/ML in predictive maintenance
5. **Data Analytics & Cloud-Based Manufacturing**
  - Big data in quality control
  - Cloud computing for decentralized production
6. **Sustainability and Future Trends**
  - Green manufacturing & energy-efficient practices
  - Human-machine collaboration and augmented reality



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## **Learning Tools & Platforms**

- AutoCAD, SolidWorks, Fusion 360
- Siemens NX, IoT Simulators
- Arduino-based lab demo kits
- Industry case studies and video walkthroughs

## **Learning Outcomes**

Upon completion, students will:

- Understand advanced manufacturing concepts and Industry 4.0 pillars
- Gain exposure to digital tools used in smart production systems
- Be industry-ready for roles involving automation and smart technologies
- Exhibit awareness of sustainable manufacturing practices



Director

**Dronacharya Group of Institutions**  
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## Evaluation Matrix

Component	Weightage
Hands-on Simulation Tasks	30%
Group Presentation / Case Study	30%
Quiz & Concept Test	30%
Class Participation	10%



Director






























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

























## Certificate Program on Exploring Cloud Computing: Skills, Applications, and Career Opportunities (2023-24) 13th to 18th May, 2024

### Students Enrollment Sheet

S.NO	Roll No.	Student Name	Department	Signature
1	17028	ANJALI JAISWAL	CSE	
2	17029	ANKIT KUMAR	CSE	
3	17030	ANKUR RAI	CSE	
4	17031	ANKUR SINGH	CSE	
5	17032	ANMOL HARSH	CSE	
6	17033	ANMOL KUMAR THAKUR	CSE	
7	17034	ANMOL PANDEY	CSE	
8	17035	ANSH KUMAR	CSE	
9	17036	ANTRIKSHA NAUTIYAL	CSE	
10	17037	ANUBHAV AGARWAL	CSE	
11	17038	ANUBHAV GUPTA	CSE	
12	17039	DOLLY UPRETI	CSE	
13	17040	ANURAG KUMAR	CSE	
14	17041	ANURAG SINGH	CSE	
15	17042	ANUSHKA DASILA	CSE	
16	17043	ARCHI SHARMA	CSE	
17	17044	ARMAAN CHOUDHARY	CSE	
18	17045	AROHI SINGH	CSE	
19	17046	ARPITA RAWAT	CSE	
20	17047	ARSHYA KHANNA	CSE	
21	17048	ARYAN	CSE	
22	17049	ASHEERVAD SINGH	CSE	
23	17050	ASHMIT GAUTAM	CSE	



24	17051	ASHUTOSH PASWAN	CSE	
25	17052	ASHUTOSH VERMA	CSE	
26	17053	AYUSH KUMAR SINGH	CSE	
27	17054	BHARTI MISHRA	CSE	
28	17055	BHUMIKA DHINGRA	CSE	
29	17056	CHARU PATHAK	CSE	
30	17057	CHHAVI GUPTA	CSE	
31	17058	DAKSH GUPTA	CSE	
32	17059	RISHABH TOMAR	CSE	
33	17060	ADITYA KUMAR	CSE	
34	17061	DEV BHARGAV	CSE	
35	17062	DEVESH ANANDAN	CSE	
36	17063	DHRUV GAIROLA	CSE	
37	17064	DIVYANSHU	CSE	
38	17066	GARIMA VERMA	CSE	
39	17067	GARVIT SHARMA	CSE	
40	17068	GEETIKA RAWAT	CSE	
41	17069	GOVIND SINGH	CSE	
42	17070	GULSHAN KUMAR	CSE	
43	17071	GURJAS SINGH	CSE	
44	17072	ARYAN	CSE	
45	17073	HARSH KUMAR	CSE	
46	17074	HARSH RANJAN	CSE	
47	17075	HARSH SHARMA	CSE	
48	17076	HARSHITA SURI	CSE	
49	17077	HIMANI AGGARWAL	CSE	
50	17078	HARDIK THAPLIYAL	CSE	
51	17079	HITAISHI	CSE	
52	17080	IRSHAD AHAMAD	CSE	

53	17081	GAURAV SHUKLA	CSE	
54	17082	JAI KISHAN SHARMA	CSE	
55	17083	KAJAL KUMARI	CSE	
56	17084	KANAK RAWAT	CSE	
57	17085	KANISHK	CSE	
58	17086	KANISHKA KUSHWAHA	CSE	
59	17087	KANISHKA SHARMA	CSE	
60	17088	KARAN TYAGI	CSE	
61	17089	KARTAVYA CHAUHAN	CSE	
62	17090	KARTIK	CSE	
63	17091	KASHISH BHAKUNI	CSE	
64	17092	KAUSHAL SINGH	CSE	
65	17093	MEGHA	CSE	
66	17094	KIRAN	CSE	
67	17095	KUNAL BHARDWAJ	CSE	
68	17096	KUNAL MAURYA	CSE	
69	17097	LAKSHYA RAWAT	CSE	
70	17098	LAVANYA JAISWAL	CSE	
71	17099	LOKESH KUMAR SINGH	CSE	
72	17100	MAHIPAL SINGH	CSE	
73	17101	MANAS AGGARWAL	CSE	
74	17102	KHUSHI CHAUDHARY	CSE	
75	17103	MAYANK DESHWAL	CSE	
76	17104	MAYANK NEGI	CSE	
77	17105	MD GUFRAN	CSE	
78	17106	MD ZAFAR	CSE	

  
**Co-ordinator**  
**Dr. Bipin Pandey**

  
**Head of the Department**  
**Dr. Bipin Pandey**

Director  
Dronacharya Group of Institutions  
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**Student Development Program**  
**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. LAKSHYA RAWAT of CSE Dept. (2nd Year) has successfully completed six days Student Development Program on “ Exploring Cloud Computing: Skills, Applications, and Career Opportunities ” from 13<sup>th</sup> to 18<sup>th</sup> May, 2024.*

**Dr. Bipin Pandey**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. ARYAN of CSE Dept. (2nd Year) has successfully completed six days Student Development Program on “ Exploring Cloud Computing: Skills, Applications, and Career Opportunities ” from 13<sup>th</sup> to 18<sup>th</sup> May, 2024.*

**Dr. Bipin Pandey**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

## **♣Certificate Program on Exploring Cloud Computing: Skills, Applications, and Career Opportunities**

**Dates:** 13th – 18th May 2024

**Duration:** 30 Hours

**Target Students:** 3rd & 4th Year CSE and Allied Branches

**Organized by:** Department of Computer Science & Engineering

**Academic Year:** 2023–24

### **Program Objectives**

- Introduce students to the **fundamentals of cloud computing** and service models (IaaS, PaaS, SaaS).
- Provide hands-on training with popular platforms like **AWS, Microsoft Azure, and Google Cloud Platform (GCP)**.
- Enable students to explore real-time **cloud applications**, deployment models, and **security** in the cloud.
- Guide students on **career paths, certifications**, and industry expectations in cloud technologies.

### **Core Modules**

- 1. Introduction to Cloud Computing**
  - Definition, Evolution, and Key Concepts
  - Benefits and Challenges of Cloud Adoption
- 2. Cloud Service Models & Deployment**
  - IaaS, PaaS, SaaS Explained
  - Public, Private, Hybrid & Community Clouds
- 3. Cloud Platforms & Tools**
  - Overview of AWS, Azure, GCP
  - Introduction to Console Access and Basic Services
- 4. Hands-on Cloud Lab Sessions**
  - Launching VMs, Storage Buckets
  - Web App Deployment and Monitoring
- 5. Cloud Security, Compliance & Data Management**
  - Identity & Access Management (IAM)



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- Encryption, Backups & Disaster Recovery
  - 6. **Career Opportunities & Certifications**
    - Roles: Cloud Engineer, DevOps, Solutions Architect
    - Roadmap for AWS, Azure, GCP Certifications
- 

## Tools & Platforms Used

- AWS Free Tier / Azure Student Pass
  - Google Cloud Skills Boost
  - Open-source cloud simulation tools (e.g., CloudSim)
- 

## Expected Learning Outcomes

By the end of this program, students will:

- Understand the architecture, services, and deployment models of cloud computing.
- Perform basic to intermediate-level tasks on cloud platforms.
- Gain clarity on cloud career pathways and global certifications.
- Demonstrate cloud-readiness for industry-level opportunities.

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## Evaluation Matrix

Component	Weightage
Daily Hands-on Assignments	30%
Mini Project / Deployment Task	30%
Quiz & Viva	30%
Participation & Interaction	10%



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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. KIRAN KUMARI of MBA Dept. (2nd Year) has successfully completed six days Student Development Program on “Essentials of Management and Leadership in a Dynamic Business Environment” from 21<sup>st</sup> to 26<sup>th</sup> September, 2023.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. PIYUSH CHAUBEY of MBA Dept. (2nd Year) has successfully  
completed six days Student Development Program on “Essentials of  
Management and Leadership in a Dynamic Business Environment ”  
from 21<sup>st</sup> to 26<sup>th</sup> September, 2023.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Essentials of Management and Leadership in a Dynamic Business Environment**

**Dates:** 21st – 26th September 2023

**Duration:** 30 Hours

**Target Students:** MBA (All Specializations)

**Organized by:** Department of MBA

**Academic Year:** 2023–24

### **Program Overview**

This certificate program is designed to provide future managers and leaders with the foundational skills and strategic mindset required to navigate and lead in today's volatile and rapidly changing business world. The course emphasizes critical aspects of management, leadership, adaptability, and innovation in complex and dynamic organizational settings.

### **Key Learning Modules**

1. **Foundations of Management & Organizational Behavior**
  - Principles of management, planning, and decision-making
  - Understanding organizational structure and behavior
2. **Leadership Theories and Styles**
  - Transformational vs. transactional leadership
  - Emotional intelligence and situational leadership
3. **Strategic Thinking in a VUCA World**
  - Scenario planning and strategic foresight
  - Risk mitigation and innovation strategies
4. **Communication & Conflict Resolution**
  - Managerial communication and team dynamics
  - Conflict management techniques and negotiation
5. **Change Management and Leadership in Crisis**
  - Leading change and digital transformation
  - Crisis management and resilient leadership
6. **Capstone Session**
  - Case Study Analysis and Group Presentation
  - Final Quiz & Interactive Leadership Simulation



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## **Teaching Methodology**

- **Lectures & Conceptual Discussions**
- **Case Studies (Harvard/ICMR-based)**
- **Role Plays and Simulations**
- **Group Activities and Reflection Exercises**

## **Outcomes of the Program**

By the end of this program, students will:

- Understand essential managerial functions and leadership principles.
- Apply leadership styles in various business contexts.
- Think strategically and act decisively under uncertainty.
- Communicate and collaborate effectively as future managers.



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## Evaluation Matrix

Component	Weightage
Case Study & Group Activities	30%
Leadership Simulation & Presentation	30%
Quiz & Viva Voce	30%
Participation & Teamwork	10%



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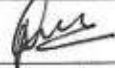
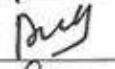
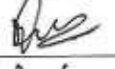
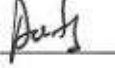
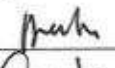
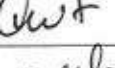
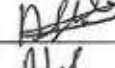
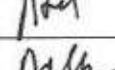
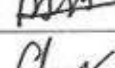
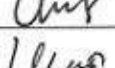
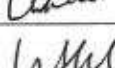
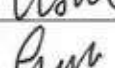
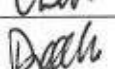
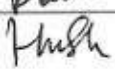
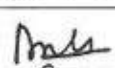
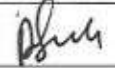
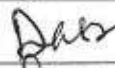
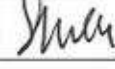
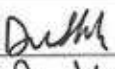
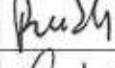
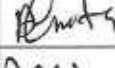
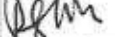

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































## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on DOT NET Technology (2023-24) 16th to 21st October, 2023

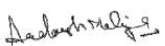
#### Students Enrollment Sheet


S.NO	Roll No.	Student Name	Department	Signature
1	17336	AAKASH CHAUHAN	IT	
2	17337	ABHAY PRATAP SINGH	IT	
3	17338	ABHISHEK KUMAR	IT	
4	17339	ADITYA JHA	IT	
5	17340	ANIL PATHANIA	IT	
6	17341	ANKIT YADAV	IT	
7	17342	ANSH SRIVASTAVA	IT	
8	17343	ANUJ SHARMA	IT	
9	17344	AYUSH SINGH	IT	
10	17345	CHIRAG GUPTA	IT	
11	17367	UJJWAL KUMAR SRIVASTAVA	IT	
12	17368	VISHAL JADON	IT	
13	17348	GAURAV	IT	
14	17349	DEEPAK KUMAR	IT	
15	17350	HIMANSHU SAGAR	IT	
16	17351	AMAN KUMAR PATEL	IT	
17	17352	JAGRIT KHANNA	IT	
18	17353	DIWAKAR KUMAR	IT	
19	17354	SHIVAM RAJ	IT	
20	17355	DEEPANSHU MANRAL	IT	
21	17356	PARTH SINGH	IT	
22	17357	AMAN GUPTA	IT	
23	17358	ROHAN KUMAR	IT	

24	17359	ABHISHEK GAUTAM	IT	
25	17361	ROHAN KAPOOR	IT	
26	17362	SHEKHAR SHARMA	IT	
27	17363	SHIVAM KUMAR JHA	IT	
28	17364	SHIVANKAR UPADHYAY	IT	
29	17365	SOHIT KUMAR PARBAT	IT	
30	17366	TANISHQ KUMAR	IT	
31	17429	SHIVAM SHARMA	AIML	
32	17430	SHIVANSH MUDGAL	AIML	
33	17431	SHRISHTI SRIVASTAVA	AIML	
34	17432	SHRUTI SHARMA	AIML	
35	17433	SHUBHAM SINGH	AIML	
36	17434	SIDDHARTH SOLANKI	AIML	
37	17435	NIKHIL DUBEY	AIML	
38	17436	VANSH TOMAR	AIML	
39	17437	VIKRANT KUMAR	AIML	
40	17438	VINAY CHAURASIYA	AIML	
41	17439	KARAN CHAURASIYA	AIML	
42	17440	ANSHIKA KUMARI	AIML	
43	17441	YASH JAIN	AIML	
44	17442	YOGESH BAGHEL	AIML	
45	17551	AAYUSH MEHTA	ECZ	
46	17552	AMAN PANDEY	ECZ	
47	17553	ABHIMANYU SHARMA	ECZ	
48	17554	AKSHAY KUMAR	ECZ	
49	17555	AMIT KUMAR KUSWAHA	ECZ	
50	17557	ANKIT ANAND	ECZ	
51	17558	ANSH BHARDWAJ	ECZ	
52	17559	ANTRA RANJAN	ECZ	
53	17560	ARYAN BAISOYA	ECZ	
54	17561	AYUSH RANJAN MOHANTY	ECZ	
55	17562	BIPASHA DUTTA	ECZ	



56	17563	DEEPAK CHAUHAN	ECZ	Deepak
57	17565	HASAN JANASHIN	ECZ	Hasan
58	17566	HIMANSHU KULSHRESHTHA	ECZ	Himanshu
59	17568	ISHAAN AZAM	ECZ	Ishan
60	17570	KUNDAN JHA	ECZ	Kundan
61	17571	MOHD AMMAR	ECZ	Mohd
62	17572	PRACHI PATTANAYAK	ECZ	Prachi
63	17573	RASHMI SINGH	ECZ	Rashmi
64	17576	SANTOSH SINGH SAUN	ECZ	Santosh
65	17577	SHIVAM SINGH	ECZ	Shivam
66	17578	SHIVANGI SHARMA	ECZ	Shivangi
67	17579	SOHAIB AKHTAR	ECZ	Sohaib
68	17580	SACHIN	ECZ	Sachin
69	17582	VISHAL	ECZ	Vishal
70	17584	SUJAL BISHT	ECZ	Sujal
71	17585	ABHINAV TIWARI	ECZ	Abhinav
72	17586	SOBHIT PAL	ECZ	Sobhit
73	17588	SHIVOM SINGH	ECZ	Shivom
74	17595	MADHAVI SANGAM	ECZ	Madhavi
75	17556	YUVAAN AGARWAL	ECZ	Yuvaan
76	17564	MANOJ AGARWAL	ECZ	Manoj
77	17567	SAI SINGH	ECZ	Sai
78	17569	JIVIN CHAUDHARY	ECZ	Jivin
79	17574	DIPAN CHAUHAN	ECZ	Dipan
80	17575	SAKSHAM CHAUHAN	ECZ	Saksham
81	17581	KANAV GUPTA	ECZ	Kanav

  
**Co-ordinator**  
**Prof. Adarsh Malviya**

  
**Head of the Department**  
**Dr. Bipin Pandey**

  
 Director  
**Dronacharya Group of Institutions**  
 27, KP-III, Greater Noida-201306

## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. ADITYA JHA of CSE Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ DOT NET Technology”  
from 16<sup>th</sup> to 21<sup>st</sup> October, 2023.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. AYUSH SINGH of CSE Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ DOT NET Technology”  
from 16<sup>th</sup> to 21<sup>st</sup> October, 2023.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



# DRONACHARYA

## Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on DOT NET Technology

**Duration:** 16th – 21st October, 2023

**Total Hours:** 36 Hours

**Organizing Departments:** IT, ECZ, AIML

**Target Students:** 3rd Year B.Tech Students (IT, ECZ, AIML)

**Academic Year:** 2023–24

### Program Overview

The **DOT NET Technology** program is designed to introduce students to the powerful framework of .NET, helping them build robust and scalable applications. The program covers a comprehensive curriculum that includes **C# programming**, **ASP.NET Core**, and **Web API development**, along with **database integration**. Students will get hands-on experience in developing applications using the .NET stack and will be prepared for careers in software development and enterprise solutions.

### Program Objectives

- Understand the **.NET framework** and its key components (C#, ASP.NET, Entity Framework)
- Develop dynamic web applications using **ASP.NET Core**
- Work with **C#** for object-oriented programming and application logic
- Learn to build **RESTful APIs** and integrate them with frontend technologies
- Understand **database connectivity** and **data handling** with **Entity Framework**
- Prepare for roles in **enterprise-level application development**



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## Modules & Topics Covered

Module	Topics
<b>Introduction to .NET Framework</b>	Overview of .NET, C# Basics, Object-Oriented Programming in C#
<b>ASP.NET Core Web Development</b>	Building dynamic websites with ASP.NET Core, MVC Architecture
<b>Web API Development</b>	RESTful APIs, CRUD Operations, API Security, JSON & XML handling
<b>Database Integration</b>	Entity Framework, SQL Server, Database Design, LINQ Queries
<b>Advanced .NET Topics</b>	Dependency Injection, Middleware, Authentication & Authorization
<b>Capstone Project</b>	Building a Full .NET Application, from frontend to database integration

## Methodology & Activities

- **Live Coding Sessions:** Step-by-step coding with instructors
- **Mini-projects & Exercises:** Reinforce each module through practical coding tasks
- **Capstone Project:** Students will design and develop a full-stack application using .NET technologies
- **Collaborative Learning:** Peer reviews, discussions, and group assignments

## Expected Outcomes

- Proficiency in **.NET technologies** and web development with **ASP.NET Core**
- Ability to develop full-stack web applications and **REST APIs**
- Experience with **database management** using **Entity Framework**
- Confidence in deploying **enterprise-level applications**
- Preparation for roles in **software development, backend development, and enterprise application development**



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## Evaluation Matrix

Component	Weightage
Mini-projects & Coding Exercises	30%
Capstone Project	40%
Class Participation & Engagement	20%
Final Assessment (Quiz/Project)	10%



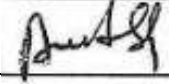
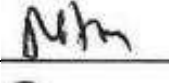
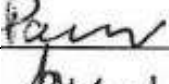
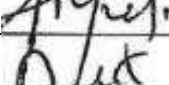
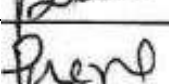
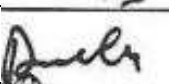
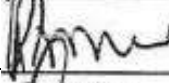
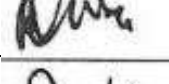
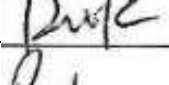
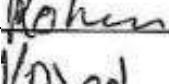
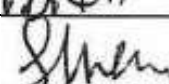
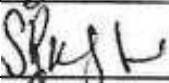
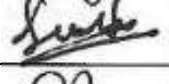
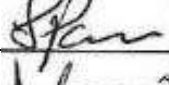
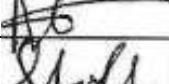
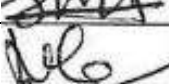
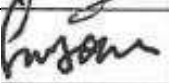



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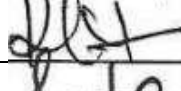
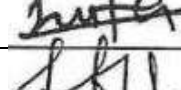
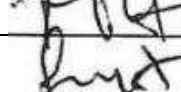
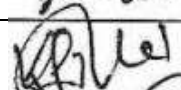
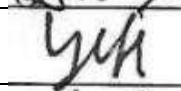
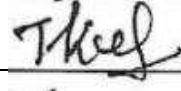
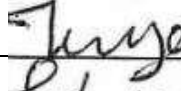
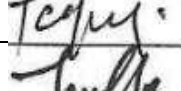
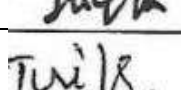
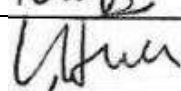
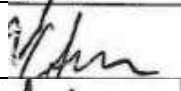
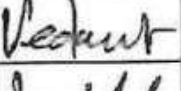
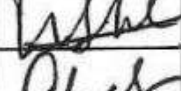
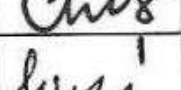
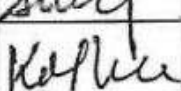
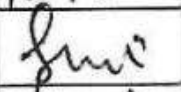
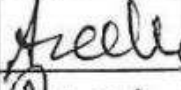
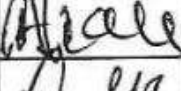
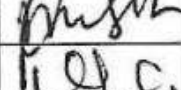
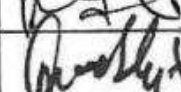
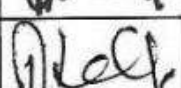


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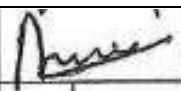
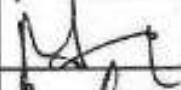
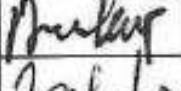
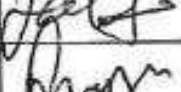
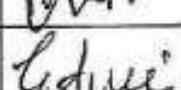
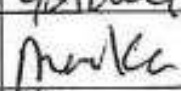
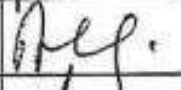
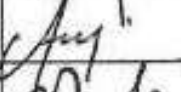
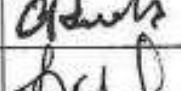
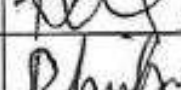
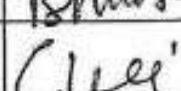
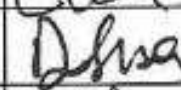

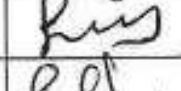
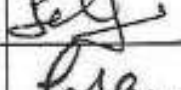
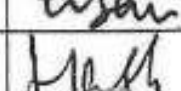
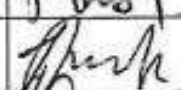
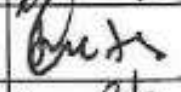
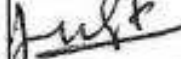



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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

SDP on linux + Networking (2023-24) 05th to 10th February, 2024			
Students Enrollment Sheets			
Roll No.	Student Name	Department	Signature
17027	ANIMESH KUMAR	CSE	
17120	NITTIN CHAUDHARY	CSE	
17125	PARNIKA GAURA	CSE	
17126	PIYUSH VERMA	CSE	
17127	PRERIT MALIK	CSE	
17128	PRERNA	CSE	
17129	PRINCE SHARMA	CSE	
17146	RISHABH RAWAT	CSE	
17147	RITIK KUMAR BHARTI	CSE	
17148	RITIK PANJLA	CSE	
17149	ROHAN KUMAR	CSE	
17160	VAISHNAVI DIXIT	CSE	
17161	SHIVAM UNIYAL	CSE	
17162	SHREYANSH RAGHUVANSHI	CSE	
17163	SHREYANSHI SINGHAL	CSE	
17164	SHREYAS PANDEY	CSE	
17166	SHRUTI JHA	CSE	
17167	SHUBH BHATNAGAR	CSE	
17168	SHUBHAM RAWAT	CSE	
17171	SIMRAN TOMAR	CSE	
17172	SNEHA KUMARI	CSE	

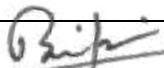


17173	SNEHA SAHDEV	CSE	
17176	SUDHANSHU SHARMA	CSE	
17177	SUDIPTA SARKAR	CSE	
17178	SUHEL ANSARI	CSE	
17180	SUMIT KUMAR	CSE	
17181	SUMIT KUMAR JHA	CSE	
17182	YASH	CSE	
17183	TAMANNA KUMARI	CSE	
17188	TANYA KHANNA	CSE	
17189	TAPASYA TIWARI	CSE	
17190	TAYYABA FATIMA	CSE	
17191	TRIPTI CHAUBEY	CSE	
17194	UTTAM YADAV	CSE	
17195	VOUMIK KUMAR NATH	CSE	
17196	VEDANT SINGH	CSE	
17197	VISHAL KUMAR	CSE	
17806	CHIRAG SHARMA	CSE	
17808	SURAJ KUSHWAHA	CSE	
17810	KISHAN GUPTA	CSE	
17813	SHIVAM GUPTA	CSE	
17204	ABHINAV RAGHAV	CSIT	
17205	ABHISHEK KANNAUJIYA	CSIT	
17206	ABHISHEK KUMAR BIND	CSIT	
17207	ABHISHEK PATEL	CSIT	
17208	ADARSH GUPTA	CSIT	
17215	AMAN KUMAR MAURYA	CSIT	

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17216	AMAN KUMAR SHARMA	CSIT	
17217	AMAN SHUKLA	CSIT	
17218	AMANDEEP SINGH	CSIT	
17220	ANSHIKA JAIN	CSIT	
17221	ARJUN S NAIR	CSIT	
17222	ARUN KUMAR GUPTA	CSIT	
17223	MONIKA SINGH	CSIT	
17226	AYUSH JAIN	CSIT	
17227	AYUSH KUMAR VERMA	CSIT	
17228	AYUSH PANDEY	CSIT	
17229	AYUSHI KUMARI	CSIT	
17231	BHUPENDRA KUMAR SHARMA	CSIT	
17232	CHIRAG SHARMA	CSIT	
17233	DHARMENDRA KUMAR MAHATO	CSIT	
17234	DIBYAJYOTI BEHURIA	CSIT	
17235	SURAJ KUMAR	CSIT	
17239	SHREYA ARORA	CSIT	
17240	GYAN PRAKASH	CSIT	
17241	HARSH KUMAR JHA	CSIT	
17242	HARSH RATHORE	CSIT	
17246	HARSHIT TIWARI	CSIT	
17247	HARSHIT TYAGI	CSIT	

  
**Co-ordinator**  
**Dr. Bipin Pandey**

  
**Head of the Department**  
**Dr. Bipin Pandey**

  
**Director**  
**Dronacharya Group of Institutions**  
 27, KP-III, Greater Noida-201306



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Greater Noida



## Student Development Program

CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. Vaishnavi Dixit of CSE Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“LINUX+Networking”  
from 05<sup>th</sup> to 10<sup>th</sup> February, 2024.*

**Dr. Aadarsh Malviya**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



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Greater Noida



## Student Development Program

CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. RISHABH RAWAT of CSE Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“LINUX+Networking”  
from 05<sup>th</sup> to 10<sup>th</sup> February, 2024.*

**Dr. Aadarsh Malviya**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## **Certificate Program on Linux and Networking**

### **Linux and Networking**

**Target Students:** CSE Students

**Duration:** 30 Hours

**Dates:** 05th – 10th February 2024

**Department:** Computer Science and Engineering (CSE)

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### **Program Objectives:**

- To provide hands-on experience with the Linux operating system and shell scripting.
  - To introduce core concepts of computer networks and real-world configuration practices.
  - To develop basic system administration and network troubleshooting skills.
  - To prepare students for advanced networking, cybersecurity, or DevOps roles.
- 

### **Program Schedule and Topics:**

<b>Day</b>	<b>Topics</b>	<b>Mode</b>
<b>Day 1</b>	Introduction to Linux OS, Architecture, File System Hierarchy Basic Commands and Directory Navigation	Lecture + Lab
<b>Day 2</b>	File Permissions, Editors (vi/nano), Shell Scripting Basics (Variables, Loops, Conditions)	Hands-on Lab
<b>Day 3</b>	Introduction to Networking: OSI Model, TCP/IP, IP Addressing and Subnetting	Lecture
<b>Day 4</b>	Linux Networking Commands (ifconfig, netstat, ping, traceroute, etc.), Network Configuration	Hands-on Lab
<b>Day 5</b>	Setting up Local Network, SSH, FTP, DNS Basics, Port Numbers, Firewall (iptables/ufw)	Lab + Discussion
<b>Day 6</b>	Network Troubleshooting Tools and Real-life Scenarios Final Quiz & Viva	Lab + Assessment



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### **Tools & Platforms Used:**

- Ubuntu/Linux OS
  - Terminal, Bash Shell
  - VirtualBox / VMware (if required)
  - Wireshark / net-tools / iputils
- 

### **Expected Learning Outcomes:**

By the end of the program, students will:

- Gain confidence in using Linux for daily operations and scripting tasks.
- Understand the fundamentals of networking and how to configure basic services.
- Be capable of troubleshooting network issues using built-in Linux tools.
- Be prepared for further learning in DevOps, Cloud, or Cybersecurity domains.



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## Evaluation Matrix:

Component	Details	Weightage
<b>Daily Practical Tasks</b>	Linux commands, scripts, and basic network configurations	30%
<b>Assignment</b>	Network setup & shell scripting assignment	30%
<b>Final Quiz &amp; Viva</b>	Covers both theoretical and practical understanding	30%
<b>Participation</b>	Lab engagement, punctuality, and teamwork	10%



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on Engineering Excellence: Unlocking Your Personal and Professional Potential(2023-24) 5th to 10th January, 2024

#### Students Enrollment Sheets























S.NO	Roll No.	Student Name	Department	Signature
1	16060	CHIRAG RANA	CSE	
2	16062	DEEPAK	CSE	
3	16063	DEEPAK SINGH BAGHEL	CSE	
4	16064	DEEPAK SINGH YADAV	CSE	
5	16065	DHRUV JANGRA	CSE	
6	16066	DHRUV VASHISHT	CSE	
7	16067	DIKSHA VAID	CSE	
8	16069	DRISHTI JAIN	CSE	
9	16070	FAIQUE AHMED RAZA KHAN	CSE	
10	16071	GARV KUMAR	CSE	
11	16072	GARVIT GAURI	CSE	
12	16073	GUDDU KUMAR PANDIT	CSE	
13	16074	GULSHAN KUMAR	CSE	
14	16075	GOBIND PRASAD BARICK	CSE	
15	16078	HONEY YADAV	CSE	
16	16079	HIMANSHU MALL	CSE	
17	16080	UTKARSH TRIPATHI	CSE	
18	16081	ISHA RAWAT	CSE	
19	16082	ISHAAN AGICHA	CSE	
20	16083	ISHITA BUDHANI	CSE	
21	16084	MOHD AZEEM MALIK	CSE	
22	16085	YASHASWI SINGH	CSE	
23	16086	JANVI KARIR	CSE	

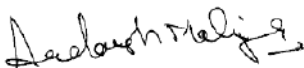
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 27, KP-III, Greater Noida-201306

24	16087	JAYANT YADAV	CSE	Shant
25	16088	KALYANI	CSE	Shant
26	16089	KAMAKSHI GUPTA	CSE	Shant
27	16090	NIKHIL GULATI	CSE	Shant
28	16091	KAPIL BUDLAKOTI	CSE	Kesh
29	16092	KARTIK THAKUR	CSE	Laksh
30	16093	KAUSHAL GUPTA	CSE	Shant
31	16095	KHYATI JHA	CSE	Shant
32	16096	ANIL PAL	CSE	Laksh
33	16097	KUSHAGRA BARNWAL	CSE	Shant
34	16098	KUSHAGRA DWIVEDI	CSE	Shant
35	16099	KUSHAGRA SINGH	CSE	Shant
36	16100	RAJ	CSE	Shant
37	16101	RISHABH BHARDWAJ	CSE	Shant
38	16102	LAKSHYA RAWAT	CSE	Shant
39	16103	MD MOZAMMIL	CSE	Shant
40	16104	MEENAKSHI JHA	CSE	Shant
41	16105	MEHAK BHARDWAJ	CSE	Shant
42	16107	MOHD ISHAN	CSE	Shant
43	16108	MUSKAN PANDEY	CSE	Shant
44	16109	MOHD AFTAB	CSE	Shant
45	16110	NAMAN KAIRA	CSE	Shant
46	16111	NIKHIL KUMAR JHA	CSE	Shant
47	16112	NIKHIL PRAJAPATI	CSE	Shant
48	16113	NIKHIL TITORIA	CSE	Shant
49	16114	NIKITA SHARMA	CSE	Shant
50	16115	NISHA KUMARI	CSE	Shant
51	16117	NAYAN PORWAL	CSE	Shant
52	16118	OMVEER PANWAR	CSE	Shant
53	16119	OM KUMAR	CSE	Shant
54	16120	OM MISHRA	CSE	Shant
55	16121	AMAN GARG	CSE	Shant
56	16122	PIYUSH YADAV	CSE	Shant
57	16123	PRAANJAL RAIKWAR	CSE	Shant

58	16124	PRAKHAR DUBEY	CSE	<i>Pdubey</i>
59	16125	PRASHANT DIXIT	CSE	<i>Prashant</i>
60	16126	PRASHANT MALKOTI	CSE	<i>Prashant</i>
61	16127	PRATHAM RAJ SRIVASTAVA	CSE	<i>Pratham</i>
62	16128	PRINCE SHARMA	CSE	<i>Prince</i>
63	16129	PRIYA PANDEY	CSE	<i>Priya</i>
64	16130	PRIYANKA THAPA	CSE	<i>Priyanka</i>
65	16132	PRAGYA SRIVASTAVA	CSE	<i>Pragya</i>
66	16133	RISHABH NIGAM	CSE	<i>Rishabh</i>
67	16134	RADHIKA SHARMA	CSE	<i>Radhika</i>
68	16135	RAHUL RAJ	CSE	<i>Rahul</i>
69	16136	RAJ THAKUR	CSE	<i>Raj</i>
70	16137	RAMAN VERMA	CSE	<i>Raman</i>
71	16138	RAVI KUMAR	CSE	<i>Ravi</i>
72	16139	REHAN AHMAD	CSE	<i>Rehan</i>
73	16140	RICHA YADAV	CSE	<i>Richa</i>
74	16141	RINESH CHANANA	CSE	<i>Rinesh</i>
75	16142	RISHABH DIXIT	CSE	<i>Rishabh</i>
76	16143	RISHABH OJHA	CSE	<i>Rishabh</i>
77	16144	RISHABH SHUKLA	CSE	<i>Rishabh</i>
78	16146	RITESH SINGH	CSE	<i>Ritesh</i>
79	16147	RITIKA	CSE	<i>Ritika</i>
80	16148	ROHAN KUMAR	CSE	<i>Rohan</i>
81	16149	ROHIT KUMAR	CSE	<i>Rohit</i>
82	16152	SAKSHI SHARMA	CSE	<i>Sakshi</i>
83	16153	SACHIN MAHTO	CSE	<i>Sachin</i>
84	16154	SAKSHAM SAKLANI	CSE	<i>Saksham</i>
85	16155	SAMEER JAIN	CSE	<i>Sameer</i>
86	16156	SARTHAK SRIVASTAVA	CSE	<i>Sarthak</i>
87	16157	SAURABH PRASAD	CSE	<i>Saurabh</i>
88	16158	SHAH NOOR UL ISHTIYAQ	CSE	<i>Shah</i>
89	16159	SHAHNAWAZ ALAM	CSE	<i>Shahnawaz</i>
90	16160	SHAINA SALMANI	CSE	<i>Shaina</i>
91	16161	SHALU KUMARI	CSE	<i>Shalu</i>

92	16162	SHAURYA CHAUHAN	CSE	
93	16163	SHIVA	CSE	
94	16165	SHIVANI JOSHI	CSE	
95	16166	SHREYAN SHUKLA	CSE	
96	16167	SHRIYA SINGH	CSE	
97	16168	SHRUTI MISHRA	CSE	
98	16169	SIDDHARTH RANA	CSE	
99	16170	SIMON SINGHAL	CSE	
100	16171	SAHIL MAURYA	CSE	
101	16172	SOURABH PARGAI	CSE	
102	16173	SHIVAM YADAV	CSE	
103	16174	SHIVAM NAGAR	CSE	
104	16175	SPARSH RASTOGI	CSE	
105	16176	SRISHTI KANDPAL	CSE	
106	16177	SRISHTI MITTAL	CSE	
107	16178	SUHANI	CSE	
108	16180	SUSHANT	CSE	
109	16181	SUNIDHI TOMAR	CSE	
110	16182	SAMEER	CSE	
111	16183	TANISHKA	CSE	
112	16184	TANISHKA SHANKHDHAR	CSE	
113	16186	TEJASVI RAI	CSE	
114	16187	TEJPAL RAJPUT	CSE	
115	16188	MANSI PASBOLA	CSE	
116	16189	SAKSHI VERMA	CSE	

  
**Co-ordinator**  
**Prof. Aadarsh Malviya**

  
**Head of the Department**  
**Dr. Bipin Pandey**

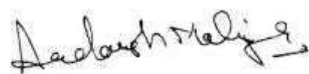
  
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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. GULSHAN KUMAR of CSE Dept. (3rd Year) has successfully  
completed six days Student Development Program on  
“Engineering Excellence: Unlocking Your Personal  
and Professional Potential”  
from 5<sup>th</sup> to 10<sup>th</sup> January, 2024.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director





## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. KAUSHAL GUPTA** of **CSE Dept. (3rd Year)** *has successfully completed six days Student Development Program on “Engineering Excellence: Unlocking Your Personal and Professional Potential” from 5<sup>th</sup> to 10<sup>th</sup> January, 2024.*



**Dr. Aadarsh Malviya**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on Engineering Excellence: Unlocking Your Personal and Professional Potential

CSE Department | 2023-24 | January 5-10, 2024

#### Course Overview

This certificate program equips engineering students with essential personal and professional skills to excel in today's competitive technical landscape. The program combines technical excellence with soft skills development, leadership training, and career preparation to create well-rounded engineering professionals ready to meet industry demands.

#### Learning Outcomes

1. Develop effective communication and presentation skills for technical contexts
2. Apply critical thinking and problem-solving methodologies to engineering challenges
3. Demonstrate leadership abilities and team collaboration techniques
4. Create a personal brand and professional development strategy
5. Understand ethical considerations in engineering practice
6. Build technical writing and documentation skills

#### Course Schedule

##### Day 1: Friday, January 5, 2024

- **Morning:** Program Introduction and Engineering Identity
- **Afternoon:** Communication Skills for Engineers

##### Day 2: Saturday, January 6, 2024

- **Morning:** Critical Thinking and Problem-Solving Methodologies
- **Afternoon:** Technical Writing and Documentation Workshop

##### Day 3: Sunday, January 7, 2024

- **Morning:** Leadership in Engineering Contexts
- **Afternoon:** Team Dynamics and Collaborative Engineering



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**Day 4: Monday, January 8, 2024**

- **Morning:** Ethical Engineering Practice
- **Afternoon:** Innovation and Design Thinking

**Day 5: Tuesday, January 9, 2024**

- **Morning:** Professional Branding and Career Development
- **Afternoon:** Industry Interaction and Networking

**Day 6: Wednesday, January 10, 2024**

- **Morning:** Personal Development Planning
- **Afternoon:** Final Presentations and Certificate Distribution

**Required Materials**

- Laptop with basic software tools
- Portfolio materials for personal branding activities
- Engineering case studies (provided)
- Reading materials (provided digitally)



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## Evaluation Matrix

Assessment Component	Weight	Description
Communication Challenge	20%	Technical presentation on an engineering topic
Problem-Solving Portfolio	20%	Documentation of applied problem-solving techniques
Team Project	25%	Collaborative solution to an engineering challenge
Personal Development Plan	20%	Strategic career and skills development roadmap
Engagement & Participation	15%	Active contribution to discussions and activities



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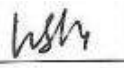
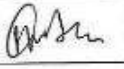
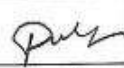
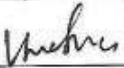
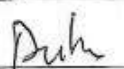


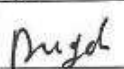

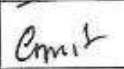

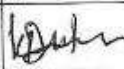
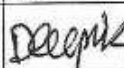
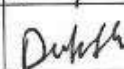
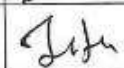
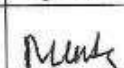

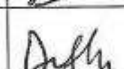
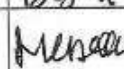
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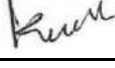
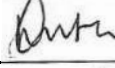
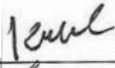
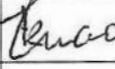

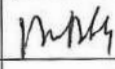
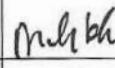
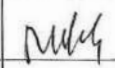
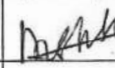
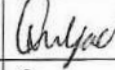
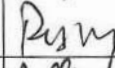
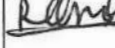
### SDP on Block Chain Technology (2023-24) 21st to 26th September, 2023

#### Students Enrollment Sheet


S.NO	Roll No.	Student Name	Department	Signature
1	16272	VISHESH SINGH	CSIT	
2	16275	ADITYA JANGID	CSIT	
3	16277	ADITYA TIWARI	CSIT	
4	16278	VANDANA	CSIT	
5	16280	ADITYA PRATAP SISOSIYA	CSIT	
6	16281	AMANATULLAH	CSIT	
7	16283	AZHAR ABIDEN	CSIT	
8	16284	ANGAD KUMAR	CSIT	
9	16285	ANKIT	CSIT	
10	16286	ANKIT SAHOO	CSIT	
11	16288	ABHINAV TIWARI	CSIT	
12	16289	DEEPAK BAGHEL	CSIT	
13	16290	RISHABH KUMAR	CSIT	
14	16291	DEEPAK SINGH	CSIT	
15	16292	DEEPANSHI	CSIT	
16	16293	JYOTIRADITYA RAJAT	CSIT	
17	16294	NISHITA SHARMA	CSIT	
18	16295	SUMIT SINHA	CSIT	
19	16297	DIVYANSHI MISHRA	CSIT	
20	16298	HARIOM KUSHWAH	CSIT	
21	16299	HARSH SINGH	CSIT	

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22	16300	HARSH PARASHAR	CSIT	
23	16301	KARTHIKEY SHARMA	CSIT	
24	16303	KRISHNA MOHAN PATEL	CSIT	
25	16304	KUNAL VATS	CSIT	
26	16305	KHUSHI TIKOO	CSIT	
27	16306	KHUSHI KAPOOR	CSIT	
28	16307	MIDHVANA RISHI	CSIT	
29	16308	MOHD ANASH KHAN	CSIT	
30	16310	NIKHIL RAJ	CSIT	
31	16311	MEENAKSHI SINGH	CSIT	
32	16312	PRERNA HALSI	CSIT	
33	16313	PREETI YADAV	CSIT	
34	16314	PRIYA YADAV	CSIT	
35	16315	PRERNA YADAV	CSIT	

  
**Co-ordinator**  
**Dr. Bipin Pandey**

  
**Head of the Department**  
**Dr. Bipin Pandey**

  
 Director  
 Dronacharya Group of Institutions  
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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. NIKHIL RAJ of CSIT Dept. (3rd Year) has successfully  
completed six days Student Development Program on “ Block Chain Technology ”  
from 21<sup>st</sup> to 26<sup>th</sup> September, 2023.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director




## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. KARTHIKEY SHARMA of CSIT Dept. (3rd Year) has successfully completed six days Student Development Program on “ Block Chain Technology ” from 21<sup>st</sup> to 26<sup>th</sup> September, 2023.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Blockchain Technology**

**Dates:** 21st – 26th September 2023

**Duration:** 30 Hours

**Target Students:** 3rd Year Students of CSE and Allied Branches

**Organized by:** Department of Computer Science & Engineering

**Academic Year:** 2023–24

### **Program Objectives**

- To provide a foundational understanding of **blockchain technology and its components**
- To explore **decentralized applications (DApps)**, smart contracts, and consensus mechanisms
- To offer hands-on experience with blockchain platforms like **Ethereum and Hyperledger**
- To prepare students for **careers in fintech, cybersecurity, and blockchain development**

### **Core Modules**

1. **Introduction to Blockchain**
  - History, need, and advantages of blockchain
  - Public vs. private vs. consortium blockchains
2. **Blockchain Architecture**
  - Blocks, chains, cryptographic hashing, Merkle trees
  - Consensus mechanisms: Proof of Work, Proof of Stake
3. **Smart Contracts and Ethereum**
  - Solidity basics and smart contract deployment
  - Working with Ethereum Virtual Machine (EVM)
4. **Blockchain Platforms and Tools**
  - Overview of Hyperledger Fabric, Remix IDE, Ganache
  - Using MetaMask and Truffle for development
5. **Applications and Case Studies**
  - Blockchain in finance, healthcare, supply chain
  - Real-world project analysis
6. **Hands-On Mini Project**
  - Developing and deploying a basic DApp



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- Blockchain-based voting system or asset tracking system

## Tools & Platforms

- **Languages/IDE:** Solidity, Remix IDE, Truffle Suite
- **Platforms:** Ethereum, Ganache, MetaMask
- **Others:** Hyperledger Fabric (Intro), IPFS (for decentralized storage)

## Learning Outcomes

By the end of this SDP, students will:

- Understand the **technical structure and benefits of blockchain**
- Be able to develop and deploy basic **smart contracts and DApps**
- Identify suitable use-cases for blockchain in real-world scenarios
- Gain practical experience with leading blockchain development tools



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## Evaluation Matrix

Component	Weightage
Hands-On Labs & Exercises	40%
Smart Contract Mini Project	30%
Quizzes & Concept Tests	20%
Attendance & Participation	10%



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
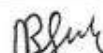
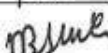
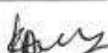
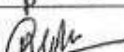
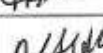
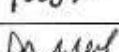
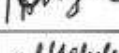
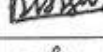
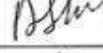
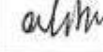
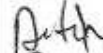
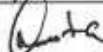
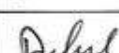
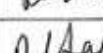
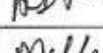
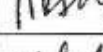
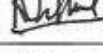


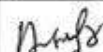
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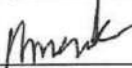
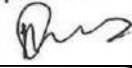
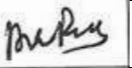
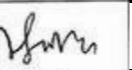
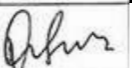
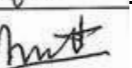
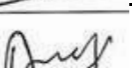
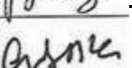
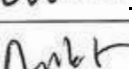
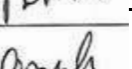
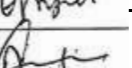
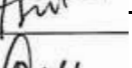
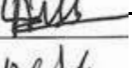
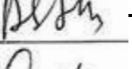
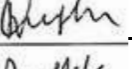
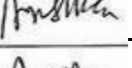
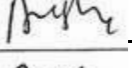
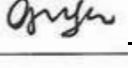
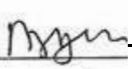
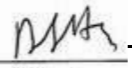
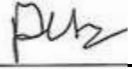
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### Certificate Program on Internet of Things (IOT) with Raspberry Pi (2023-24) 21st to 26th September, 2023

#### Students Enrollment Sheet

S.NO	Roll No.	Student Name	Department	Signature
1	16001	AARYAN SHARMA	CSE	
2	16002	AAVRITI GUPTA	CSE	
3	16003	ABHINAV SINGH	CSE	
4	16004	ABHINAV CHAURASIA	CSE	
5	16005	ABHIRAJ KUMAR	CSE	
6	16006	ABHISHEK KUMAR	CSE	
7	16007	ABHISHEK MISHRA	CSE	
8	16008	ANSHIKA NAUTIYAL	CSE	
9	16009	ABHISHEK SHARMA	CSE	
10	16010	ABHINAV NEGI	CSE	
11	16011	ADITYA CHAUDHARY	CSE	
12	16012	ADITYA NAIR	CSE	
13	16013	ADITYA TIWARI	CSE	
14	16014	RAHUL KUMAR	CSE	
15	16015	AFTAB AHMED KHAN	CSE	
16	16016	AKANSHA	CSE	
17	16017	AKHIL SINGH	CSE	
18	16018	AKSH RUSTAGI	CSE	
19	16019	AKSHAT PANDEY	CSE	
20	16020	AMARJEET GIRI	CSE	
21	16021	AMAN BANSAL	CSE	
22	16022	AMAN HALDAR	CSE	

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23	16023	AMAN KUMAR	CSE	
24	16024	AMAN KUMAR SINGH	CSE	
25	16025	AMAN PANDEY	CSE	
26	16026	AMAN SATYAWANI	CSE	
27	16028	AMAN SINGH	CSE	
28	16030	AMIT KUMAR	CSE	
29	16031	ANURAG	CSE	
30	16032	ANAMIKA	CSE	
31	16034	ANIKET KUMAR	CSE	
32	16035	ANJALI RAJPUT	CSE	
33	16036	ANKIT KUMAR SAHU	CSE	
34	16037	ANKUSH RAWAT	CSE	
35	16038	ANSHITA AGARWAL	CSE	
36	16040	APEKSHITA AGGARWAL	CSE	
37	16041	ARCHIKA VERMA	CSE	
38	16042	ARIN SHARMA	CSE	
39	16043	ARYAN	CSE	
40	16044	ARYAN BAISOYA	CSE	
41	16046	ASTHA SINGH	CSE	
42	16047	AAKASH KUMAR GUPTA	CSE	
43	16049	ATUL BHANOT	CSE	



**Co-ordinator**

**Dr. Bipin Pandey**



**Head of the Department**

**Dr. Bipin Pandey**



Director

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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. ATUL BHANOT of CSE Dept. (3rd Year) has successfully completed six days Student Development Program on “ Internet of Things (IOT) with Raspberry Pi ” from 21<sup>st</sup> to 26<sup>th</sup> September, 2023.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director




## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. AMAN SINGH of CSE Dept. (3rd Year) has successfully  
completed six days Student Development Program on “ Internet of Things  
(IOT) with Raspberry Pi ”  
from 21<sup>st</sup> to 26<sup>th</sup> September, 2023.*



**Dr. Aadarsh Malviya**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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### **Certificate Program on Internet of Things (IoT) with Raspberry Pi**

**Dates:** 21st – 26th September 2023

**Duration:** 30 Hours

**Target Students:** 3rd Year Students of CSE and Allied Branches

**Organized by:** Department of Computer Science & Engineering

**Academic Year:** 2023–24

### **Program Objectives**

- To introduce students to **IoT concepts and architecture** using hands-on experience.
- To enable learners to interface sensors and actuators with **Raspberry Pi**.
- To develop mini-projects with real-time data collection, processing, and cloud integration.
- To make students industry-ready for **smart systems and embedded applications**.

### **Core Modules**

- 1. Introduction to IoT and Embedded Systems**
  - IoT ecosystem, architecture, and real-world applications
  - Overview of microcontrollers vs. single-board computers
- 2. Getting Started with Raspberry Pi**
  - Raspberry Pi setup and OS installation
  - GPIO pin configuration and Python scripting
- 3. Sensor Interfacing and Data Acquisition**
  - Connecting temperature, humidity, and motion sensors
  - Working with actuators and basic automation
- 4. IoT Communication Protocols**
  - MQTT, HTTP, and wireless communication
  - Cloud integration with platforms like ThingSpeak or Blynk
- 5. Mini Project Development**
  - Designing and deploying IoT-based projects
  - Example: Home automation, smart weather station, etc.
- 6. Hands-On Lab Sessions**
  - Sensor data logging
  - Real-time monitoring and control using mobile or web apps



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## Tools & Platforms

- **Hardware:** Raspberry Pi 3/4, Sensors (DHT11, PIR, IR, etc.), Relays
- **Software:** Python, Raspbian OS, MQTT Broker, ThingSpeak, Blynk
- **IDE:** Thonny, Visual Studio Code

## Learning Outcomes

By the end of this program, students will:

- Understand the fundamentals of IoT systems and architectures
- Interface real-world sensors with Raspberry Pi and control them via scripts
- Develop a basic end-to-end IoT application with cloud connectivity
- Be equipped for internships, projects, and roles in IoT and embedded domains



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## Evaluation Matrix

Component	Weightage
Practical Sessions & Experiments	40%
Mini Project Implementation	30%
Quizzes & Concept Tests	20%
Attendance & Engagement	10%





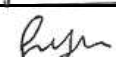
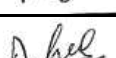
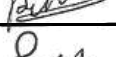
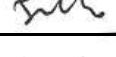


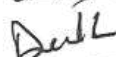
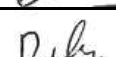
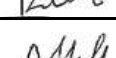
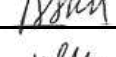
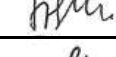


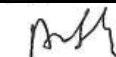
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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

SDP on Matlab Programming (2023-24) 15th to 20th March, 2024.				
Students Enrollment Sheet				
S.NO	Roll No.	Name	Dept.	Signature
1	16663	MD AFROZ	ME	
2	16664	NAUSHERWAN AHMAD	ME	
3	16661	SANSKAR MAURYA	ME	
4	16662	ROHAN SHARMA	ME	
5	16665	SALIM AHMED	ME	
6	16666	NAVNEET PANDEY	ME	
7	16667	LAKSHAY PUNDIR	ME	
8	16668	DEEPAK YADAV	ME	
9	16669	BABLU KUMAR DAS	ME	
10	16670	ASHISH MALIK	ME	
11	16671	ASHISH KUMAR VERMA	ME	
12	16672	ADARSH KUMAR	ME	
13	16673	BISHAL KUMAR SHAHANI	ME	
14	16674	ADARSH KUMAR	ME	
15	16675	AJAY KUMAR	ME	
16	16676	AMAN	ME	



**Co-ordinator**  
**Prof. Shailesh Kumar**  
**Singh**



**Head of the Department**  
**Prof. Shailesh Kumar**  
**Singh**



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## **Certificate Program on MATLAB Programming**

**Duration:** 15th – 20th March, 2024

**Total Hours:** 36 Hours

**Organizing Department:** ME (Mechanical Engineering)

**Target Students:** 3rd Year B.Tech Students (Mechanical Engineering)

**Academic Year:** 2023–24

### **Program Overview**

The **MATLAB Programming** Skill Development Program is designed to introduce students to the powerful programming environment of MATLAB, which is widely used in mechanical engineering for simulations, data analysis, and computational modeling. Students will gain hands-on experience with MATLAB's vast functionality, including matrix operations, plotting, numerical methods, and engineering applications. This program will enable students to use MATLAB effectively for solving engineering problems and conducting advanced analyses.

### **Program Objectives**

- Understand the basics of **MATLAB programming** and the environment
- Learn how to use **MATLAB functions** and its built-in toolboxes for data analysis and visualization
- Develop the skills to solve **engineering problems** using **MATLAB** (matrix operations, simulations, modeling)
- Gain expertise in **numerical methods** and **engineering applications** such as dynamics, control systems, and heat transfer
- Enhance the ability to **visualize data** through graphs, plots, and charts
- Explore **advanced features** like Simulink for modeling and simulation



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## Modules & Topics Covered

Module	Topics
<b>Introduction to MATLAB</b>	MATLAB Environment, Basics of MATLAB, Variables, and Data Types
<b>MATLAB Programming Fundamentals</b>	Functions, Control Statements, Loops, and File Handling
<b>Matrix Operations in MATLAB</b>	Matrix Manipulations, Linear Algebra, Solving Equations
<b>Data Visualization</b>	Plotting Functions, 2D/3D Graphs, Customizing Plots
<b>Numerical Methods</b>	Root Finding, Integration, Differentiation, Solving Linear Systems
<b>Engineering Applications in MATLAB</b>	Heat Transfer, Fluid Mechanics, Dynamics, Control Systems
<b>Simulink for Simulation</b>	Introduction to Simulink, Modeling and Simulation, Simulation of Systems

## Methodology & Activities

- **Lectures & Demonstrations:** In-depth theoretical explanations of MATLAB programming and its engineering applications
- **Hands-on Practice:** Practical sessions where students will write and execute MATLAB scripts to solve engineering problems
- **Group Projects & Case Studies:** Collaborative exercises to model and simulate engineering systems using MATLAB and Simulink
- **Interactive Sessions:** Q&A sessions to address specific queries and challenges encountered during programming tasks
- **Assignments & Mini Projects:** Real-world engineering problems to be solved using MATLAB tools and features

## Expected Outcomes

- Proficiency in **MATLAB programming** and its key features for solving engineering problems
- Ability to implement **numerical methods** and **engineering simulations** using MATLAB and Simulink
- Strong skills in **data visualization** and the ability to interpret and present complex data effectively
- Preparedness for **engineering analysis, modeling, and system simulation** tasks in academic and industrial environments
- Enhanced understanding of MATLAB's capabilities for **mechanical engineering applications**, including dynamics, thermodynamics, and control systems

## Evaluation Matrix

Component	Weightage
Lab Exercises & Assignments	40%
Class Participation & Engagement	20%
Final Project/Assessment	40%



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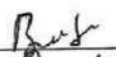
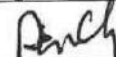
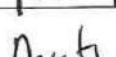
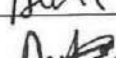
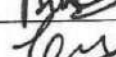

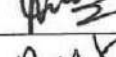
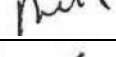
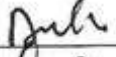
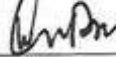
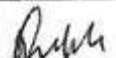
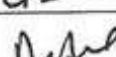
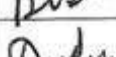
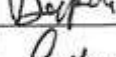
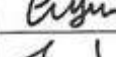
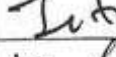
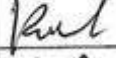
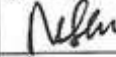

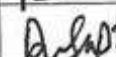
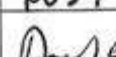
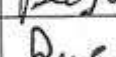
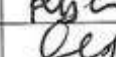
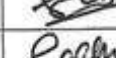
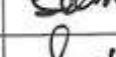
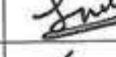
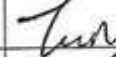
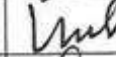

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## Group of Institutions

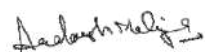
B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
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<b>SDP on Data Analytics for Fraud Detection (2023-24) 14th to</b>				
<b><u>Students Enrollment Sheet</u></b>				
<b>S.NO</b>	<b>Roll No.</b>	<b>Name</b>	<b>Dept.</b>	<b>Signature</b>
1	16316	PRADEEP	CSIT	
2	16318	RAHUL RAJ PANDEY	CSIT	
3	16319	RASHMITA BISWAS	CSIT	
4	16320	REYMANN SHARMA	CSIT	
5	16321	UDIT RAJ	CSIT	
6	16322	RIYA SHARAD	CSIT	
7	16324	SAURAV SINGH BISHT	CSIT	
8	16325	S K SARFARAZ	CSIT	
9	16326	KOMAL BORA	CSIT	
10	16327	SHAILENDER SINGH	CSIT	
11	16328	SHRUTI MEHRA	CSIT	
12	16329	SHIVAM MISHRA	CSIT	
13	16330	SHIVAM GUPTA	CSIT	
14	16332	SHUDHANSHU RANJAN DWIVEDI	CSIT	
15	16333	JASMEET SINGH	CSIT	
16	16335	TANISHQ SHARMA	CSIT	
17	16336	TEJAS NIGAM	CSIT	
18	16337	VICKY KUMAR	CSIT	
19	16339	VISHAL SHRESTHA	CSIT	
20	16340	VIKAS KUSHWAH	CSIT	
21	16341	FARDEEN KHAN	CSIT	
22	16820	RAHUL KUMAR MISHRA	CSIT	
23	16823	ARBAZ KHAN ZIHANA	CSIT	



24	16826	BINIT KUMAR	CSIT	
25	16827	AKSHAT MAHESHWARI	CSIT	
26	16828	PRACHI SHARMA	CSIT	
27	16203	AARTI ANTHWAL	IT	
28	16202	ADITYA PAL	IT	
29	16207	AKANSHA TIWARI	IT	
30	16208	AKASH VERMA	IT	
31	16210	AMIT PAL	IT	
32	16209	ANJANI KUMARI	IT	
33	16204	APURV RANA	IT	
34	16211	ASHIR REHMAN	IT	
35	16205	ASHISH KUMAR	IT	
36	16212	ATUL KUMAR JHA	IT	
37	16213	DEEPAK SHRIVAS	IT	
38	16216	GAGAN KUMAR	IT	
39	16219	JYOTI KUMARI	IT	
40	16222	KUNAL	IT	
41	16226	NASEEM	IT	
42	16228	RAJAN KUMAR	IT	
43	16229	RISHABH DUTT	IT	
44	16231	RIYA	IT	
45	16230	RIYA BISHT	IT	
46	16234	SAURABH YADAV	IT	
47	16236	SEEMA	IT	
48	16237	SHIVAM SINGH	IT	
49	16239	TANIYA KATARIA	IT	
50	16250	VAIBHAV DUBEY	IT	
51	16244	VANSHITA DAS	IT	
52	16242	VARUN SHRIVASTAVA	IT	
53	16247	VIVEK KUMAR	IT	
54	16841	ADYA PARASAR	IT	

55	16842	SUMIT MISHRA	IT	
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**Co-ordinator**  
**Prof. Adarsh Malviya**



**Head of the Department**  
**Dr. Bipin Pandey**



**Director**  
**Dronacharya Group of Institutions**  
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Greater Noida

**Student Development Program**

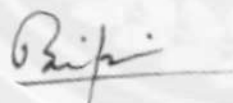
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** RASHMITA BISWAS **of** CSE Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “Data Analytics  
for Fraud Detection” from 14th to 19th September, 2023.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

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Group of Institutions  
Greater Noida

**Student Development Program**

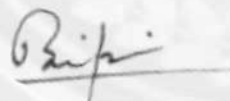
**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. SAURAV SINGH BISHT of CSE Dept. (3rd Year)*

*has successfully completed six days*

*Student Development Program on "Data Analytics  
for Fraud Detection" from 14th to 19th September, 2023.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## Certificate Program on Data Analytics for Fraud Detection

**Academic Year:** 2023–24

**Duration:** 14th to 19th September, 2023

**Total Hours:** 36 Hours

**Target Students:** 3rd & 4th Year B.Tech students

**Departments Involved:** CSIT (Computer Science & Information Technology), IT (Information Technology)

### Program Objective

The program aims to equip students with practical knowledge and analytical skills to detect and prevent fraud using data analytics tools and techniques. Students will explore real-world case studies, apply statistical models, and use modern data analysis platforms to uncover patterns and anomalies in datasets.

### Key Learning Outcomes

Participants will be able to:

- Understand the **types and patterns of fraud** in various sectors (finance, telecom, e-commerce).
- Apply **data mining techniques** for fraud detection.
- Use tools like **Python, R, Excel, and SQL** for data analysis.
- Develop **predictive models** using machine learning for fraud risk scoring.
- Visualize fraud-related data using **dashboards and reports**.

### Day-wise Content Structure

Day	Topic
Day 1	Introduction to Fraud Analytics and Industry Use Cases
Day 2	Data Collection, Cleaning & Pre-processing Techniques
Day 3	Exploratory Data Analysis (EDA) & Feature Engineering
Day 4	Statistical Modeling & Machine Learning Techniques for Fraud Detection
Day 5	Case Study Implementation: Credit Card & Insurance Fraud
Day 6	Visualization & Reporting using Power BI/Tableau + Final Assessment



## Assessment & Evaluation Matrix

Component	Weightage
Hands-on Lab Work	40%
Daily Participation/Quizzes	20%
Final Project/Case Study	40%



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### SDP on Frontend Application Development using REACT JS (2023-24) 25th to 30th November, 2023.

#### Students Enrollment Sheet


S.NO	Roll No.	Name	Dept.	Signature
1	16342	ADITYA KUMAR SINGH	AIML	
2	16344	ADANAN WARIS ASHRAF	AIML	
3	16346	AMIT KUMAR JHA	AIML	
4	16348	ABHISHEK YADAV	AIML	
5	16350	ANKUR TRIPATHI	AIML	
6	16352	ANUJ NEGI	AIML	
7	16354	ANKIT KUMAR	AIML	
8	16355	ARUSH TAANK	AIML	
9	16356	DIVYANSHU KUMAR	AIML	
10	16358	ARCHIT PANDEY	AIML	
11	16362	ASHLOK DUBEY	AIML	
12	16364	BHANU PRATAP	AIML	
13	16366	DHRUV AGGARWAL	AIML	
14	16368	KAUSHAL PRATAP SINGH	AIML	
15	16369	KESHAV KUMAR AGGARWAL	AIML	
16	16370	PRAVEEN KUMAR	AIML	
17	16372	DINESH KUMAR	AIML	
18	16374	DEEPAK KUMAR	AIML	
19	16376	KARN SARTHAK BISHT	AIML	
20	16378	HARSH KHURANA	AIML	
21	16380	JAYVEER YADAV	AIML	
22	16382	KAUSHAL SHARMA	AIML	
23	16384	KUNAL	AIML	
24	16385	VINEET SINGH	AIML	
25	16386	JAYPRAKASH	AIML	
26	16388	MRIDUL PANDEY	AIML	

  
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27	16390	PIYUSH	AIML	
28	16392	RISHI GUPTA	AIML	
29	16394	ANAND TOMAR	AIML	
30	16396	PRIYANSHU RANAKOTI	AIML	
31	16398	PRIYANKA KUSHWAHA	AIML	
32	16402	RAJAT SINGH	AIML	
33	16403	REKHA	AIML	
34	16404	KAJAL TIWARI	AIML	
35	16406	SANDEEP KUMAR SINGH	AIML	
36	16408	SHREYANSH MISHRA	AIML	
37	16410	SANSKAR SHUKLA	AIML	
38	16412	SACHIN SAGAR	AIML	
39	16420	LOKESH KUMAR	AIML	
40	16424	SAROJ NARENDAR ASHAPAL	AIML	
41	16430	UTKARSH TIWARI	AIML	
42	16438	VIKRAM KUMAR MISHRA	AIML	
43	16440	VINEET SHARMA	AIML	
44	16444	HARSHIT SINGH	AIML	
45	16855	ROHAN SINGH	AIML	
46	16856	RAMESH SINGH	AIML	
47	16208	MUKESH BABU	IT	
48	16210	ANANDI PRASAD	IT	
49	16209	CHANDRADEV SINGH	IT	
50	16204	SATISH CHANDRA	IT	
51	16211	ZIAURREHMAN	IT	
52	16205	BIRENDRA MISHRA	IT	
53	16212	DILIP KUMAR JHA	IT	
54	16213	ARJUN SHRIVAS	IT	
55	16216	RAJENDRA SINGH	IT	

  
**Co-ordinator**  
**Dr. Pawan Kumar Sharma**

  
**Head of the Department**  
**Dr. Bipin Pandey**

Director  
Dronacharya Group of Institutions  
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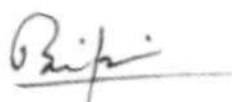
**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ANKUR TRIPATHI **of** CSE Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “ Frontend Application Development using REACT JS”  
from 25th to 30th November, 2023.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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Group of Institutions  
Greater Noida

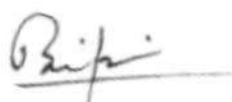
**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ASHLOK DUBEY **of** CSE Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “ Frontend Application Development using REACT JS”  
from 25th to 30th November, 2023.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



## Certificate Program on Frontend Application Development using React JS

**Dates:** 25th – 30th November, 2023

**Duration:** 36 Hours

**Department:** AIML/IT

**Target Audience:** 3rd/4th Year Students

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### Program Objective

This program **focuses on equipping** students with in-demand skills in frontend development using React JS. It **introduces** modern UI/UX practices and **guides** learners to build efficient, reusable, and component-driven web interfaces.

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### Course Module

Day	Topic	Details
Day 1	Introduction to React JS	JSX, Components, Props, State, Virtual DOM
Day 2	React Hooks and Functional Components	useState, useEffect, and custom hooks
Day 3	Routing and Navigation	React Router DOM, page navigation, nested routing
Day 4	Forms and Event Handling	Controlled components, form validation, event binding
Day 5	State Management and API Integration	Context API, Axios/fetch, real-time data binding
Day 6	Capstone Project	Hands-on application development and project presentation

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### Expected Outcomes

Students:

- **Learn** modern component-based web architecture
- **Implement** user-centric and responsive UIs using React
- **Integrate** REST APIs and manage application states
- **Deliver** a functional web application as a team project

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## Evaluation Pattern

Component	Details	Weight
Daily Practical Tasks	Code labs and interactive problem-solving exercises	25%
Mid-Session Quiz	Concept check on React fundamentals and JSX syntax	15%
Capstone Project	End-to-end application development with real-time data usage	40%
Presentation & Peer Review	Evaluation of final output and collaborative discussion	20%
<b>Total</b>		<b>100%</b>



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Dronacharya Group of Institutions  
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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. KARAN SINGH GHUGTYAL of CSE(AIML) Dept. (3rd Year) *has successfully completed six days Student Development Program on “ Full Stack Web-Development” from 16<sup>th</sup> to 21<sup>th</sup> October, 2023.***

**Dr. Bipin Pandey**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

## Full-Stack Web Development

**Duration:** 16th – 21st October, 2023

**Total Hours:** 36 Hours

**Organized by:** Department of Computer Science and Engineering & CSE - AIML

**Target Students:** 3rd Year B.Tech Students (CSE & AIML)

**Academic Year:** 2023–24

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### Program Overview

The **Full-Stack Web Development** program is designed to provide students with practical knowledge and hands-on experience in both frontend and backend web development. It aims to equip students with the skills required to build dynamic, interactive, and responsive websites and web applications using modern technologies.

Through this six-day workshop, students will learn how to work with **HTML, CSS, JavaScript, Node.js, Express, MongoDB, and React**. By the end of the program, they will have developed a full-stack web application and will be able to implement both the client and server sides of web development.

### Program Objectives

- Understand **frontend technologies** (HTML, CSS, JavaScript, React.js)
- Gain practical experience with **backend frameworks** (Node.js, Express)
- Learn how to work with **databases** (MongoDB)
- Develop skills in **responsive web design**
- Create a fully functional web application as a **final project**
- Prepare students for careers in **web development** and **full-stack development**

### Modules & Topics Covered

Module	Topics
Frontend Development	HTML5, CSS3, JavaScript, React.js, Responsive Web Design, Bootstrap
Backend Development	Node.js, Express.js, RESTful APIs, Authentication & Authorization
Database Management	MongoDB, Mongoose, CRUD Operations
Integration &	Connecting frontend with backend, deploying apps on platforms like



Module	Topics
Deployment	Heroku
Version Control	Git & GitHub for source code management and collaboration
Capstone Project	Building a full-stack web application integrating all learned technologies

## Methodology & Activities

- Hands-on coding sessions with live examples
- Mini-projects and individual assignments to reinforce learning
- **Capstone Project:** Students will develop and deploy a full-stack web application
- Group discussions, problem-solving activities, and peer reviews

## Expected Outcomes

- Mastery in both **frontend** and **backend** web development technologies
- Ability to create **dynamic, responsive websites** and **full-stack applications**
- Exposure to **modern web frameworks** and best practices in **software development**
- Confidence in using **Git** for version control and collaborating in teams
- Capability to deploy web applications and showcase them to potential employers



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## Evaluation Matrix

Component	Weightage
Hands-on Project	40%
Mini Assignments & Coding Exercises	30%
Class Participation & Engagement	20%
Final Assessment (Quiz or Project)	10%



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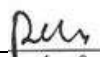
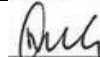
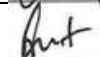
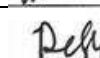
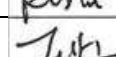
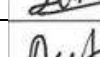
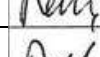
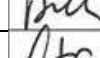
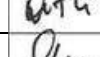
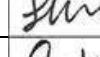
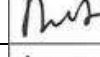


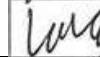
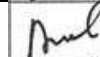
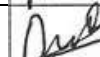
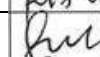
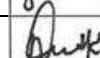
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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on Wireless Communication (2023-24) 5th to 10th January, 2024

#### Students Enrollment Sheet

S.NO	University Roll No.	Student Name	Department	Signature
1	2002300317032	RAVI AGARWAL	ECE	
2	2002300319387	TUSHAR KUMAR	ECE	
3	2002300310039	RAHUL RAJPUT	ECE	
4	2002300319399	AMIT VALMIKI	ECE	
5	2002300310700	RAKESH VALMIKI	ECE	
6	2002300316618	SWATI KUMAR	ECE	
7	2002300310166	PRIYAM KUMAR	ECE	
8	2002300311857	JYOTI MEENA	ECE	
9	2002300317765	AMIT VERMA	ECE	
10	2002300310233	NEHA MEENA	ECE	
11	2002300310949	ANIL AGARWAL	ECE	
12	2002300313052	ANITA BISHT	ECE	
13	2002300313128	SHIVANI JADHAV	ECE	
14	2002300318928	SWATI GUPTA	ECE	
15	2002300317608	ANKITA GUPTA	ECE	
16	2002300315739	KAVITA AGARWAL	ECE	
17	2002300316972	SHIVANI RAJPUT	ECE	
18	2002300313980	KAVITA BISHT	ECE	
19	2002300314515	VIKAS KUMAR	ECE	
20	2002300316117	ANIL MEENA	ECE	
21	2002300314409	AMIT KUMAR	ECE	
22	2002300318171	RITU BISHT	ECE	
23	2002300310818	SHIVANI SHARMA	ECE	
24	2102300310928	ANKIT YADUVANSHI	ECE	
25	2102300310929	ASHUTOSH SINGH	ECE	

  
Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

26	2102300310930	SAHIL KUMAR AZMAREY	ECE	
27	2102300310931	GAURAV	ECE	
28	2102300310932	ATIK UR REHMAN	ECE	
29	2102300310933	NITISH KUMAR	ECE	
30	2002300009009	HIMANI SHARMA	ECZ	
31	2002300438719	RITU THAKUR	ECZ	
32	2002300974742	DEEPAK MISHRA	ECZ	
33	2002300857886	ANITA GUPTA	ECZ	
34	2002300504574	GARIMA CHAUDHARY	ECZ	
35	2002300816385	JYOTI KUMARI	ECZ	



**Co-ordinator**  
**Prof. Sanghamitra V Arora**



**Head of the Department**  
**Prof. Sanghamitra V Arora**



**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida



**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. KAVITA BISHT of ECE Dept. (4th Year) has successfully  
completed six days Student Development Program on  
“Wireless Communication”  
from 5<sup>th</sup> to 10<sup>th</sup> January, 2024.*

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida



**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. RITU BISHT of ECE Dept. (4th Year) has successfully  
completed six days Student Development Program on  
“Wireless Communication”  
from 5<sup>th</sup> to 10<sup>th</sup> January, 2024.*

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **SDP on Wireless Communication**

**ECE & ECZ Departments | 2023-24 | January 5-10, 2024**

#### **Overview**

This program provides comprehensive training on modern wireless communication technologies, protocols, and system design. Participants will gain theoretical knowledge and practical skills through expert sessions and hands-on laboratories focusing on current industry standards and emerging trends.

#### **Key Learning Areas**

- Wireless communication fundamentals and RF basics
- Cellular technologies (4G/5G) and protocols
- Wireless network architecture and planning
- IoT wireless standards and implementations
- Signal processing for wireless systems
- Antenna design and radio propagation

#### **Daily Schedule**

**Day 1:** RF Fundamentals & Wireless Basics

**Day 2:** Cellular Technologies & Protocols

**Day 3:** Wireless Network Planning & Optimization

**Day 4:** IoT Communication Standards

**Day 5:** Antenna Systems & Signal Processing

**Day 6:** Emerging Technologies & Applications



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### Evaluation Components

Component	Weight
Technical Quizzes	20%
Lab Exercises	25%
Simulation Project	20%
Design Challenge	25%
Participation	10%



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# DRONACHARYA

## Group of Institutions






B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on Electric Vehicle (EV) Technology and Charging Infrastructure (2023-24) 15th to 20th April, 2024

#### Students Enrollment Sheet

S.NO	University Roll No.	Student Name	Department	Signature
1	2002300210001	AFAQUE WASIM	EEE	
2	2002300219001	APOORVA KUMAR	EEE	
3	2002300219002	KUNDAN KUMAR SINGH	EEE	
4	2002300210072	NEHA AGARWAL	EEE	
5	2002300219137	PRIYA AGARWAL	EEE	
6	2002300213862	KAVITA KUMAR	EEE	
7	2002300218436	ANKITA VALMIKI	EEE	
8	2002300217909	POOJA VERMA	EEE	
9	2002300219003	ANKITA SINGH	EEE	
10	2002300210326	POOJA SAGAR	EEE	
11	2002300219004	PRIYA SINGH	EEE	
12	2002300217570	RAVI VALMIKI	EEE	
13	2002300219010	SHEWTA SHARMA	EEE	
14	2002300216822	ANITA CHAUDHARY	EEE	
15	2002300217503	RAHUL GUPTA	EEE	
16	2002300213752	ANKITA CHAUDHARY	EEE	
17	2002300214806	POOJA GUPTA	EEE	
18	2002300210202	RAMAN CHAUDHARY	EEE	
19	2102300219019	AYUSH SHUBHAM	EEE	
20	2102300219022	SUMIT PANDEY	EEE	
21	2102300219024	NEHA KUMARI	EEE	
22	2102300219026	NISHANT KUMAR	EEE	
23	2102300219029	SHANAYA SINHA	EEE	

Director

Dronacharya Group of Institutions  
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24	2002300310001	ADITI GUPTA	ECE	<i>Arora</i>
25	2002300314764	POOJA VALMIKI	ECE	<i>Arora</i>
26	2002300315689	ANIL SINGH	ECE	<i>Arora</i>
27	2002300131572	RITU JADHAV	ECE	<i>Arora</i>
28	2002300631624	ROHIT VALMIKI	ECE	<i>Arora</i>
29	2002300315258	ANKITA AGARWAL	ECE	<i>Arora</i>
30	2002300315003	DIYA THAKUR	ECE	<i>Arora</i>
31	2002300311623	ROHIT JADHAV	ECE	<i>Arora</i>
32	2002300310066	SWATI SHARMA	ECE	<i>Arora</i>
33	2002300314231	ANITA AGARWAL	ECE	<i>Arora</i>

*Arora*

**Co-ordinator**  
**Prof. Sanghamitra V Arora**

*Arora*

**Head of the Department**  
**Prof. Sanghamitra V Arora**

*Arora*

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** RAVI VALMIKI **of** EEE Dept. (4th Year) **has successfully**  
**completed six days Student Development Program on “ Electric Vehicle**  
**(EV) Technology and Charging Infrastructure ”**  
**from 15<sup>th</sup> to 20<sup>th</sup> April, 2024.**



**Prof. Sanghamitra V Arora**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*





## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** DIYA THAKUR **of** ECE Dept. (4th Year) **has successfully**  
**completed six days Student Development Program on “ Electric Vehicle**  
**(EV) Technology and Charging Infrastructure ”**  
**from 15<sup>th</sup> to 20<sup>th</sup> April, 2024.**

**Prof. Sanghamitra V Arora**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

## **SDP on Electric Vehicle Technology and Charging Infrastructure**

**EEE Department | 2023-24 | April 15-20, 2024**

### **Overview**

This skill development program provides comprehensive training on EV technologies, battery systems, charging infrastructure, and related industry developments. Participants will gain theoretical knowledge and practical skills through expert sessions and hands-on activities.

### **Key Learning Areas**

- EV architecture and powertrain systems
- Battery technologies and management
- Charging infrastructure design and standards
- Power electronics for EVs
- Smart grid integration and V2G concepts
- EV diagnostics and maintenance

### **Daily Schedule**

**Day 1:** EV Fundamentals & Architectures

**Day 2:** Battery Systems & Management

**Day 3:** Charging Infrastructure & Standards

**Day 4:** Power Electronics & Motor Drives

**Day 5:** Smart Grid Integration & V2G

**Day 6:** Industry Applications & Future Trends



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## Evaluation Components

Component	Weight
Daily Quizzes	20%
Hands-on Lab	25%
Case Study	15%
Final Project	30%
Participation	10%



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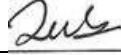

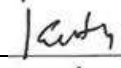



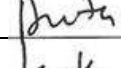
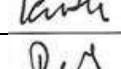

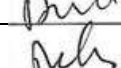

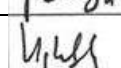

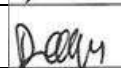

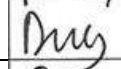





# DRONACHARYA

## Group of Institutions

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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### SDP on Cybersecurity in Communication Systems (2023-24) 6th to 11th April, 2024

#### Students Enrollment Sheet

S.NO	University Roll No.	Student Name	Department	Signature
1	2002300463934	RITU CHAUDHARY	ECZ	
2	2002300588277	JASMEEN	ECZ	
3	2002300629811	RITU VERMA	ECZ	
4	2002300666234	KAVITA RAJPUT	ECZ	
5	2002300153149	NEHA SINGH	ECZ	
6	2002300273906	RITU YADAV	ECZ	
7	2002300926308	RENU	ECZ	
8	2002300224490	ANITA THAKUR	ECZ	
9	2002300412961	KARTIK RAJPUT	ECZ	
10	2002300617404	ROHIT CHAUDHARY	ECZ	
11	2002300267472	RAVI SINGH	ECZ	
12	2002300217627	NEHA VERMA	ECZ	
13	2002300973708	POOJA THAKUR	ECZ	
14	2002300573067	VIKAS MISHRA	ECZ	
15	2002300514469	SWATI MEENA	ECZ	
16	2002300149892	DEEPANSH SHARMA	ECZ	
17	2002300666559	ANILESH MEENA	ECZ	
18	2002300975557	ANANYA VALMIKI	ECZ	
19	2002300215183	SHALU AGARWAL	ECZ	
20	2002300837538	SHIVANI BISHT	ECZ	
21	2002300368941	VIKAS SHARMA	ECZ	
22	2002300615539	SHIVANI MEENA	ECZ	



**Co-ordinator**  
**Prof. Sanghamitra V Arora**



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Head of the Department**  
**Prof. Sanghamitra V Arora**

**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** KAVITA RAJPUT **of** ECE Dept. (Final Year)

***has successfully completed six days Student Development  
Program on “Cybersecurity in Communication Systems”  
from 6th-11th April 2024.***



**Prof. Sanghamitra V Arora**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.**                     ROHIT CHAUDHARY                     **of** ECE Dept. (Final Year)

***has successfully completed six days Student Development  
Program on “Cybersecurity in Communication Systems”  
from 6th-11th April 2024.***



**Prof. Sanghamitra V Arora**  
*HOD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on on Cybersecurity in Communication Systems

**Duration:** 6th – 11th April, 2024

**Total Hours:** 36 Hours

**Organizing Department:** ECZ (Electronics and Communication Engineering)

**Target Students:** 4th Year B.Tech Students (ECZ)

**Academic Year:** 2023–24

### Program Overview

The **Cybersecurity in Communication Systems** program aims to equip students with essential knowledge and skills to protect communication networks and systems from potential cyber threats. The program covers key areas in **network security**, **cryptography**, and **security protocols**, with a focus on securing communication systems used in modern electronic networks. By the end of the program, students will have the skills to evaluate and implement cybersecurity strategies to safeguard communication infrastructures.

### Program Objectives

- Understand the **principles of cybersecurity** as applied to communication systems
- Learn about **network security** protocols and methods to secure data transmission
- Gain expertise in **cryptography**, encryption, and decryption techniques
- Explore **firewall configurations**, **intrusion detection systems**, and **VPNs**
- Understand how to protect communication systems against emerging cyber threats
- Develop practical knowledge through **hands-on activities** and **real-world case studies**

### Modules & Topics Covered

Module	Topics
Introduction to Cybersecurity	Cybersecurity Fundamentals, Security Threats, Types of Attacks
Network Security	TCP/IP Security, Firewalls, Intrusion Detection Systems, Network Monitoring
Cryptography and Encryption	Symmetric and Asymmetric Cryptography, RSA, AES,



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Module	Topics
<b>Securing Communication Protocols</b>	Digital Signatures SSL/TLS, VPNs, HTTPS, Security in Wireless and Cellular Networks
<b>Cybersecurity in Communication Systems</b>	Protecting Communication Channels, Data Integrity, Authentication
<b>Hands-on Case Study &amp; Lab Work</b>	Setting up firewalls, implementing encryption, and securing network communication systems

## Methodology & Activities

- **Interactive Lectures:** Detailed theoretical sessions with real-world cybersecurity examples
- **Hands-on Labs:** Practical exercises focused on configuring security systems and implementing encryption techniques
- **Case Studies:** Analysis of recent cybersecurity incidents in communication systems
- **Discussions & Simulations:** Group discussions and simulations to model cybersecurity attacks and defense strategies
- **Final Project:** Implementing a security framework for a communication system, ensuring it is resilient against various cyber threats

## Expected Outcomes

- In-depth understanding of **cybersecurity principles** in the context of communication systems
- Practical experience in configuring **network security measures** (firewalls, VPNs, IDS)
- Ability to apply **cryptography** techniques to secure data transmission
- Enhanced skills in defending against cyberattacks targeting communication infrastructure
- Preparation for careers in **network security, cybersecurity consulting, and secure communication system development**



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## Evaluation Matrix

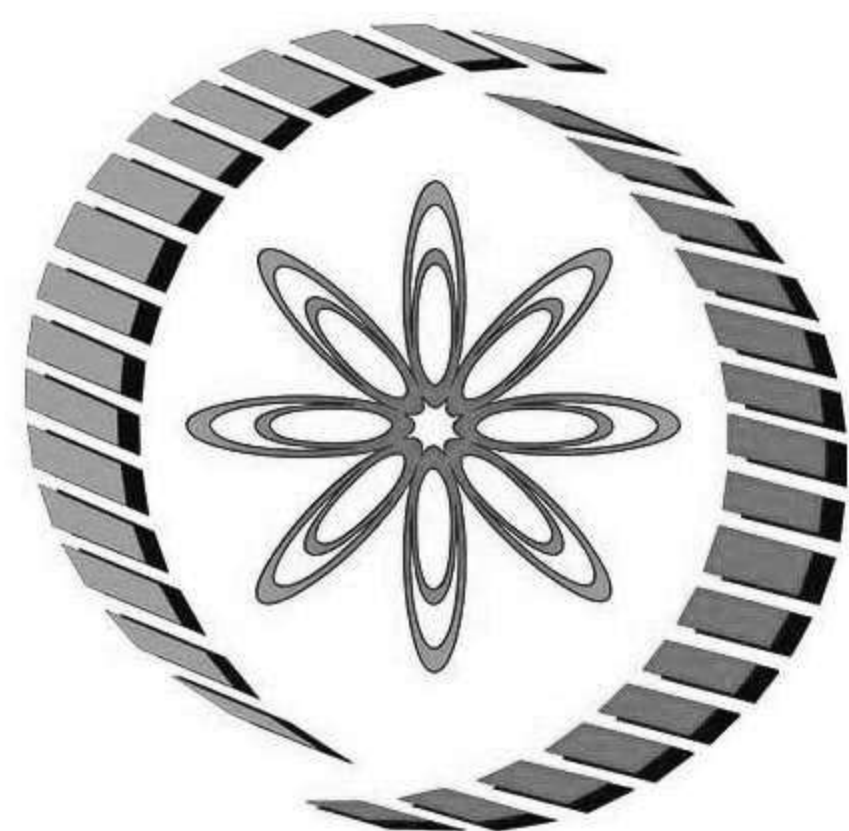
Component	Weightage
Lab Exercises & Assignments	30%
Case Study Analysis	20%
Class Participation & Engagement	20%
Final Project/Assessment	30%



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Dronacharya Group of Institutions  
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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**A NIVETHA**

for successfully completing the course

**Data Science for Engineers**

with a consolidated score of **52** %

Online Assignments	15.83/25	Proctored Exam	35.7/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **2868**

**Prof. Devendra Jaliha**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Mar 2024**

**(8 week course)**

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



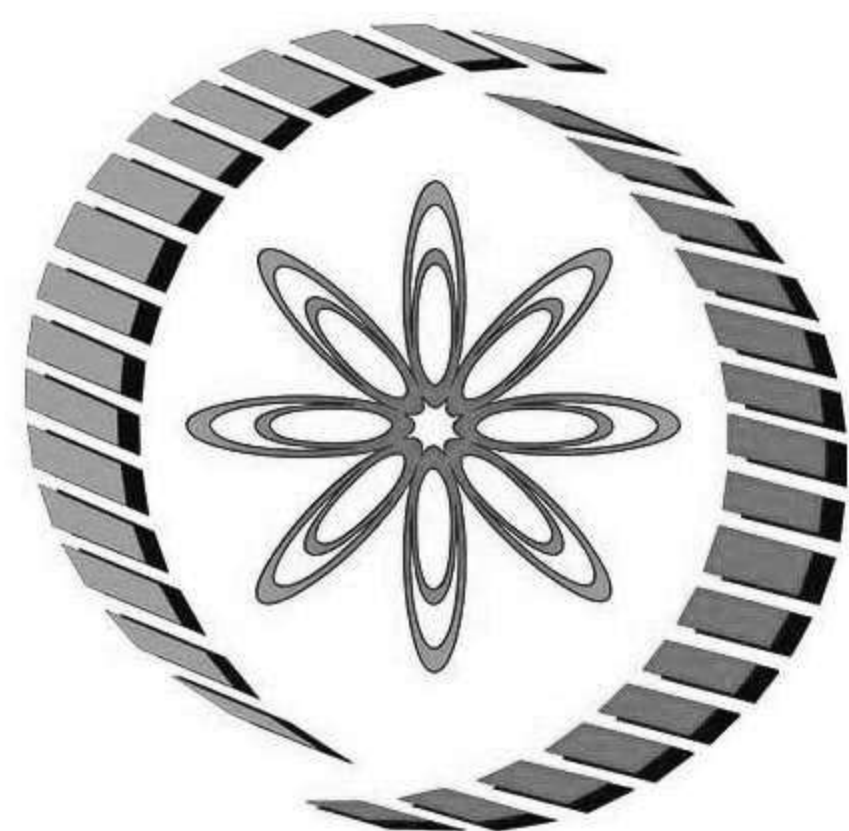
Roll No: NPTEL24CS53S558601478

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SUYASH KUMAR**

for successfully completing the course

**Enhancing Soft Skills and Personality**

with a consolidated score of **60** %

Online Assignments	22/25	Proctored Exam	38.25/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **12566**

**Prof. B. V. Ratish Kumar**

Chairman, Centre for Continuing Education  
IIT Kanpur

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Feb-Apr 2024**

**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



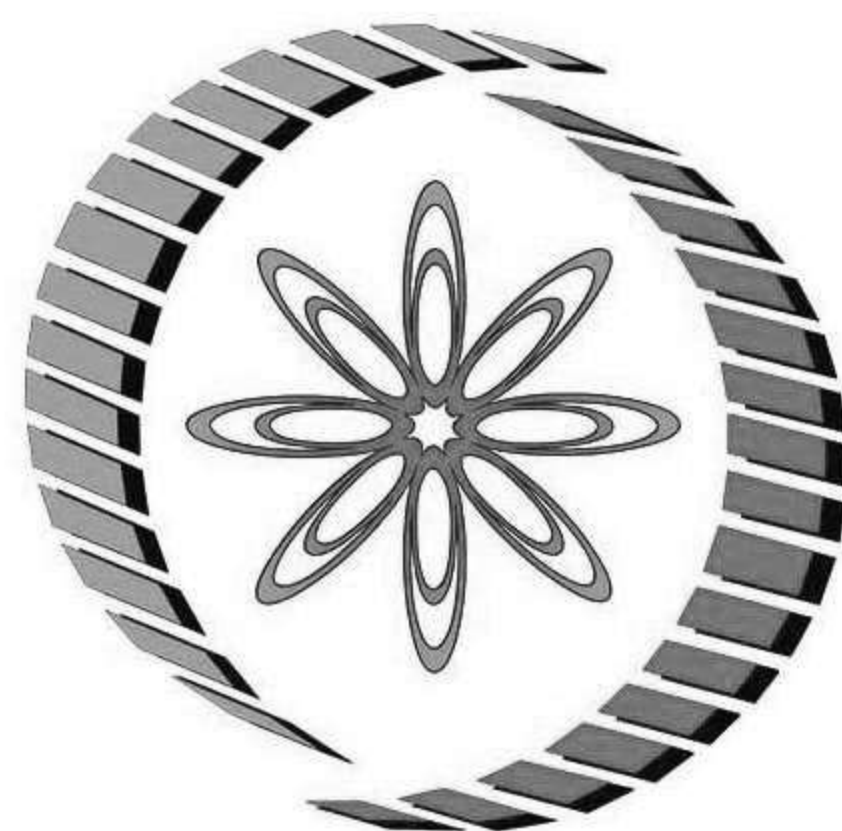
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To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DRAVID NAGI**

*for successfully completing the course*

**Effective Engineering Teaching In Practice**

with a consolidated score of **73** %

Online Assignments	20.17/25	Proctored Exam	52.64/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **526**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Feb 2024**

**(4 week course)**

*Director*  
Director  
Dr. B. V. Raghavan  
Group of Institutions  
P.O. Box 113, Greater Noida-201306

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



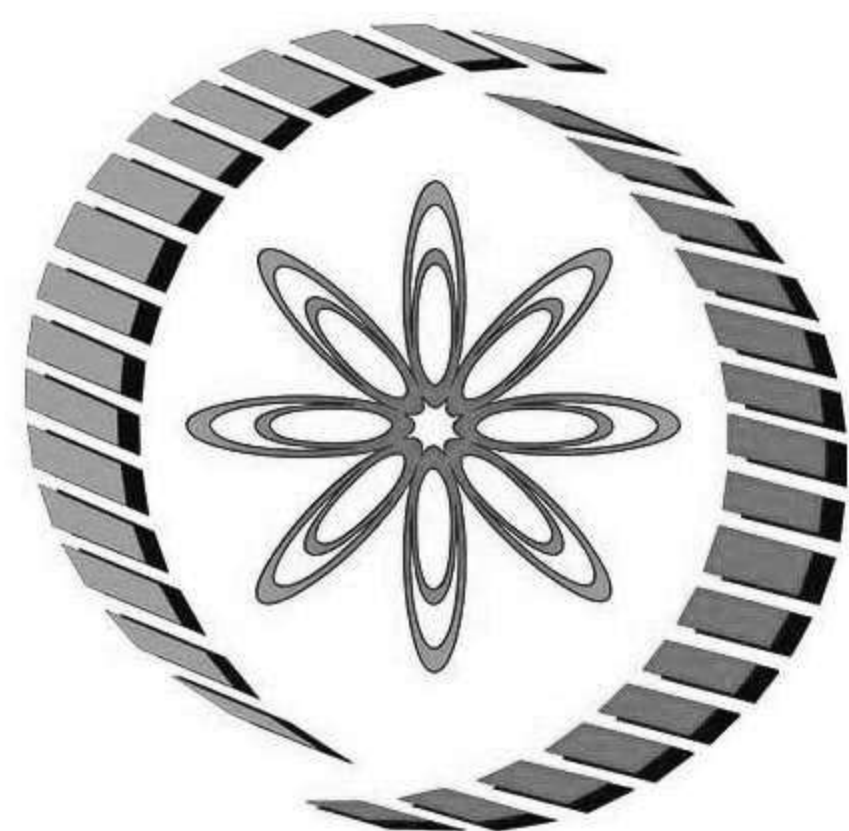
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To verify the certificate



No. of credits recommended: 1 or 2





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MIDHVANA RISHI**

for successfully completing the course

**Emotional Intelligence**

with a consolidated score of **61** %

Online Assignments	23.58/25	Proctored Exam	37.5/75
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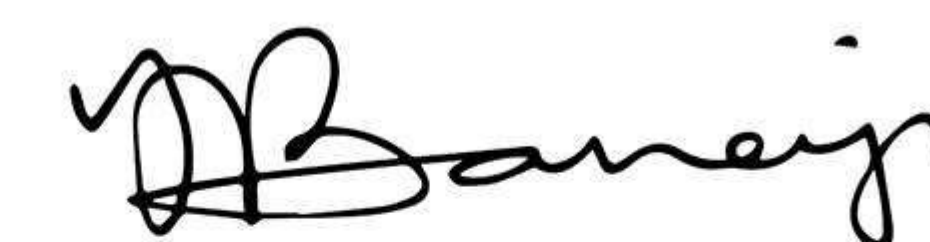
Total number of candidates certified in this course: **2716**

**Jan-Mar 2024**

**(8 week course)**



Director  
Donacharya Group of Institutions  
V, KP-III, Greater Noida-201306



**Prof. Haimanti Banerji**

Coordinator, NPTEL

IIT Kharagpur



Indian Institute of Technology Kharagpur



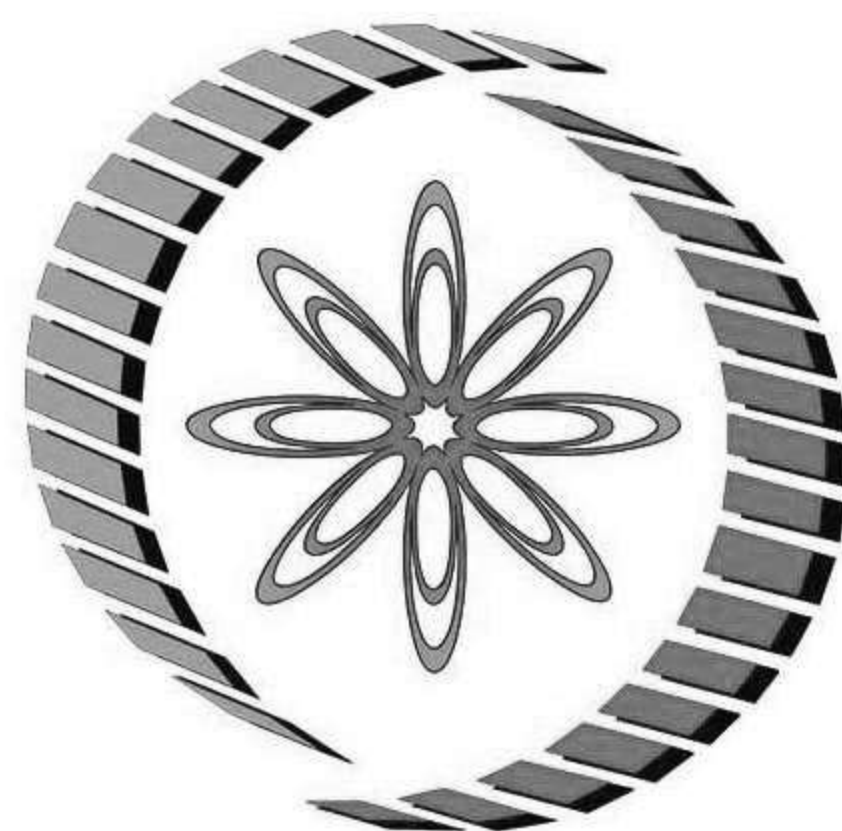
Roll No: NPTEL24HS06S344203933

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SHREYANSHI SINGHAL**

for successfully completing the course

**Emotional Intelligence**

with a consolidated score of **72** %

Online Assignments	20.83/25	Proctored Exam	51/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **2716**

**Jan-Mar 2024**

(8 week course)

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Prof. Haimanti Banerji**

Coordinator, NPTEL

IIT Kharagpur



Indian Institute of Technology Kharagpur



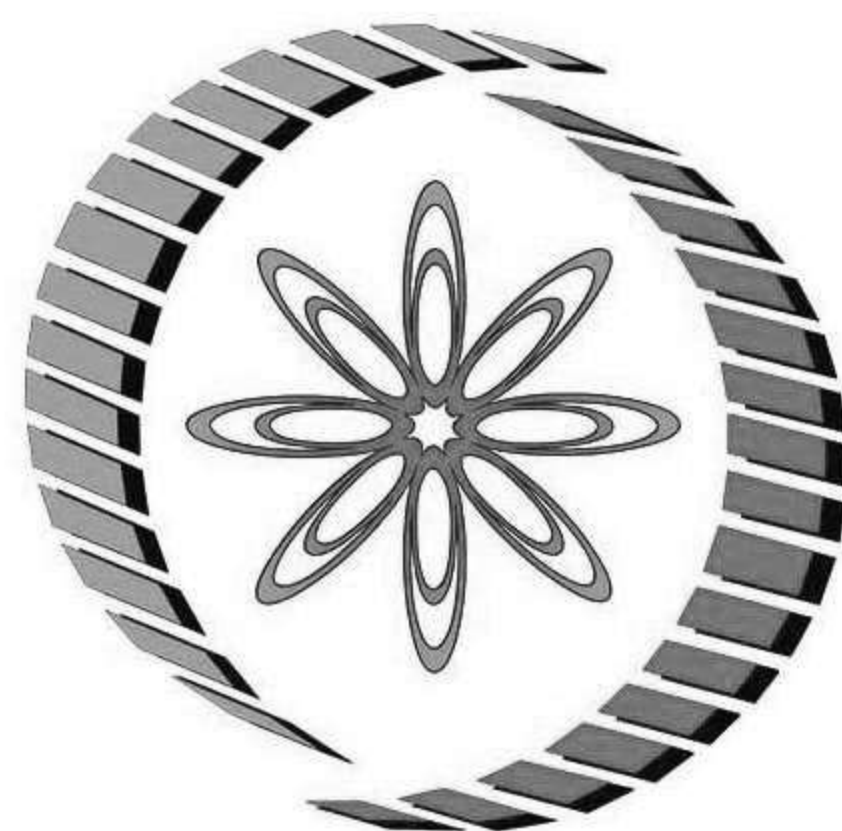
Roll No: NPTEL24HS06S357900329

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



TOPPER

This certificate is awarded to

**ABHAY**

for successfully completing the course

## Fundamentals of Conduction and Radiation

with a consolidated score of **86** %

Online Assignments	19.69/25	Proctored Exam	66/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **22**

**Jul-Oct 2023**

**(12 week course)**



Director  
Dronacharya Group of Institutions  
27, KP-II, Greater Noida-201306



**Prof. T. V. Bharat**

Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



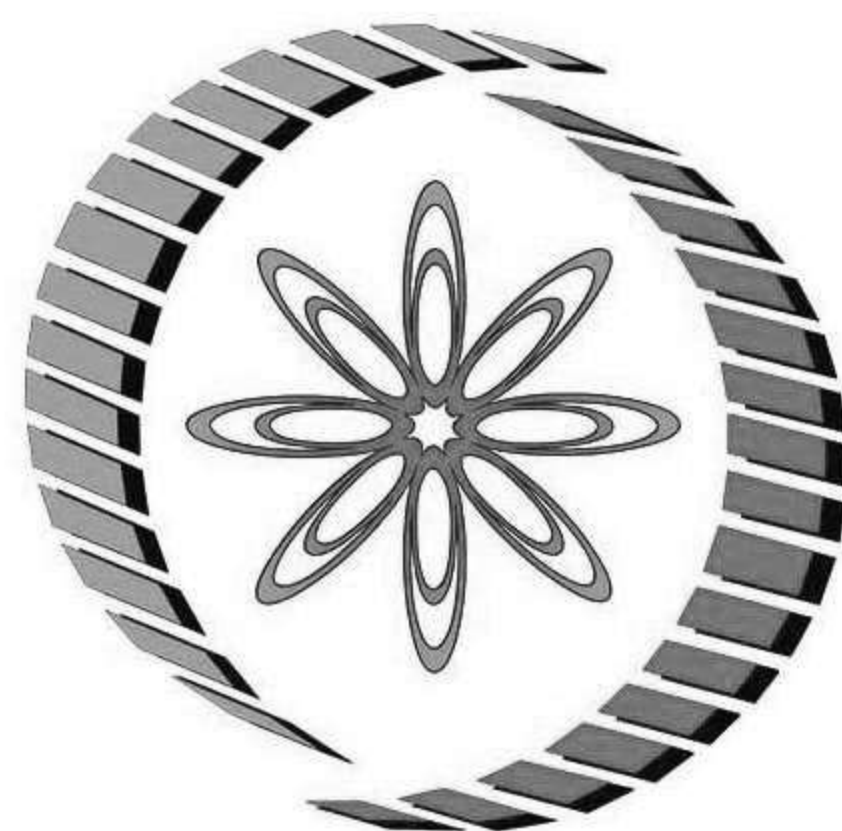
Roll No: NPTEL23ME95S634306298

To verify the certificate



No. of credits recommended: 3 or 4





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**NITIKA YADAV**

for successfully completing the course

**Google Cloud Computing Foundations**

with a consolidated score of **62** %

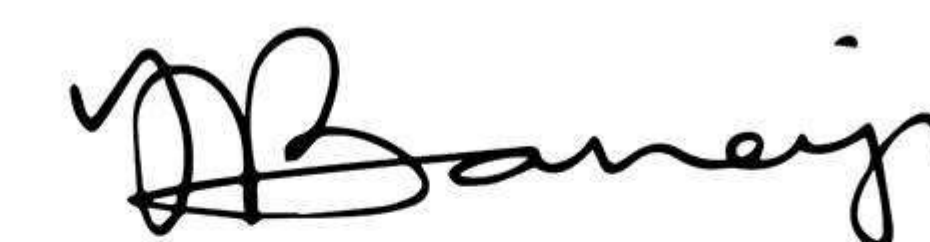
Online Assignments	16.33/25	Proctored Exam	45.83/75
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Total number of candidates certified in this course: **4443**

**Aug-Oct 2023**

**(8 week course)**

  
Director  
Dr. B. R. Ambedkar Group of Institutions  
KP-III, Greater Noida-201306



**Prof. Haimanti Banerji**

Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



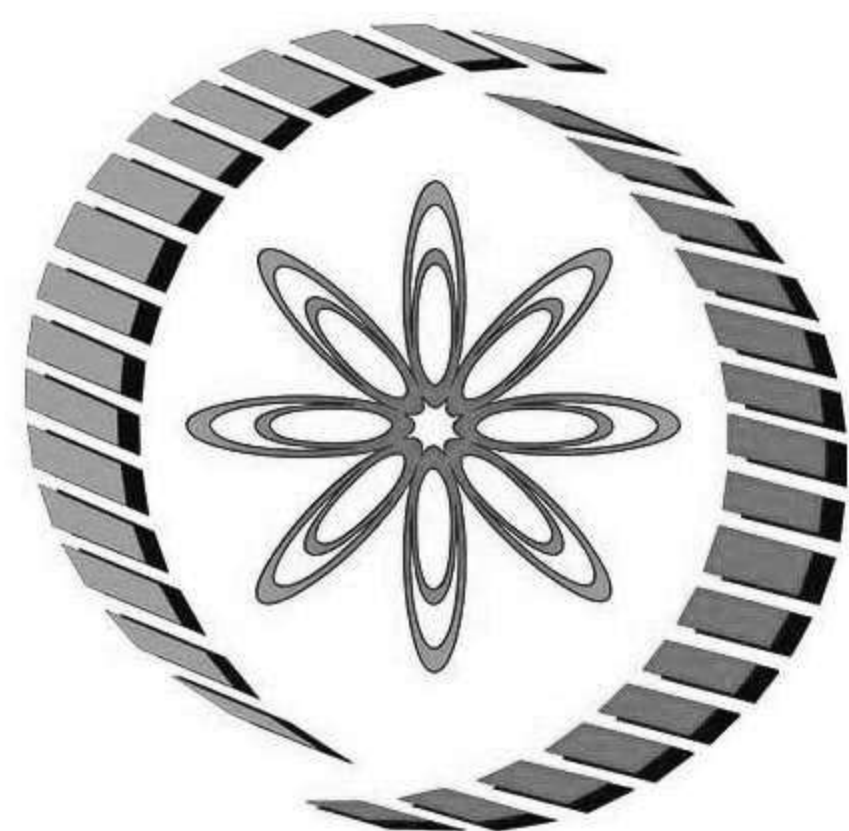
Roll No: NPTEL23CS90S743800415

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SAKSHI VERMA**

for successfully completing the course

**Google Cloud Computing Foundations**


with a consolidated score of **54** %

Online Assignments	12/25	Proctored Exam	41.67/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **4443**

**Aug-Oct 2023**

**(8 week course)**

  
Director  
Prof. Acharya Group of Institutions  
KP-III, Greater Noida-201306

**Prof. Haimanti Banerji**

Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



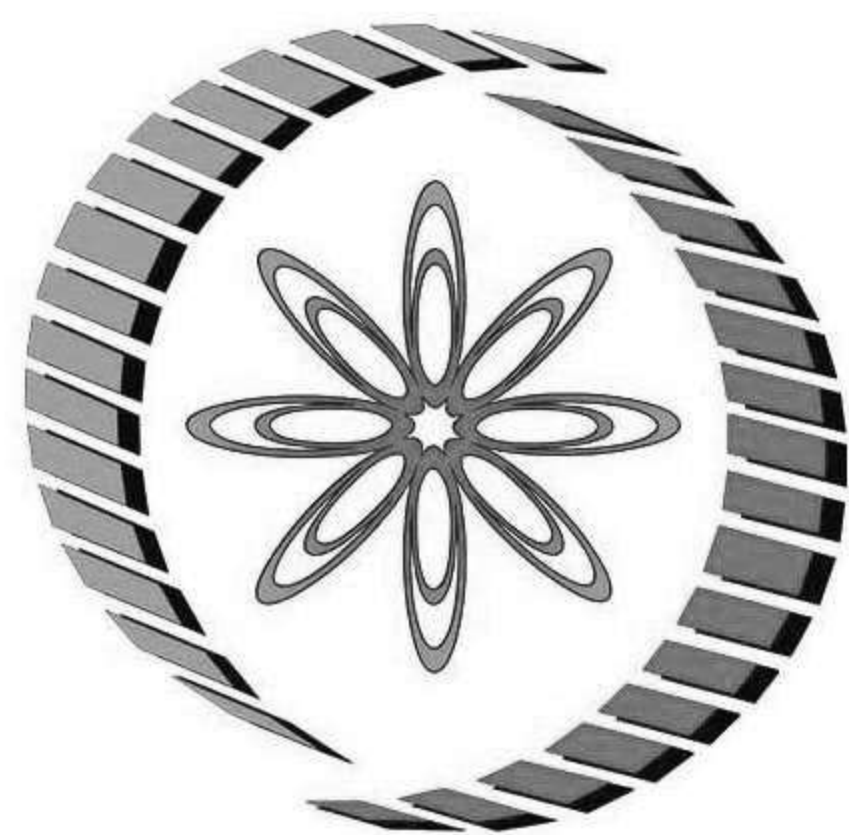
Roll No: NPTEL23CS90S834311928

To verify the certificate



No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**AKANSHA**

*for successfully completing the course*

## Google Cloud Computing Foundations

with a consolidated score of **55** %

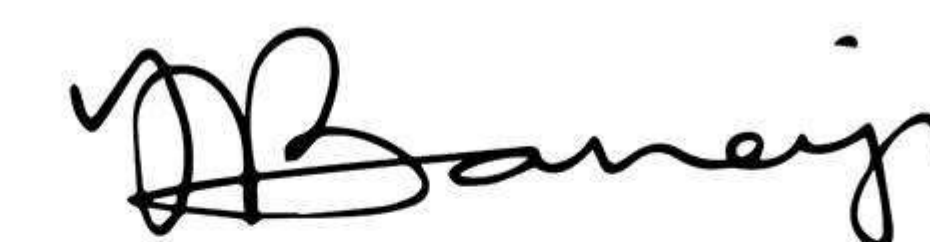
Online Assignments	12.13/25	Proctored Exam	42.96/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **4443**

**Aug-Oct 2023**

**(8 week course)**

  
Director  
Dhanacharya Group of Institutions  
7, KP-III, Greater Noida-201306



**Prof. Haimanti Banerji**

Coordinator, NPTEL

IIT Kharagpur



Indian Institute of Technology Kharagpur



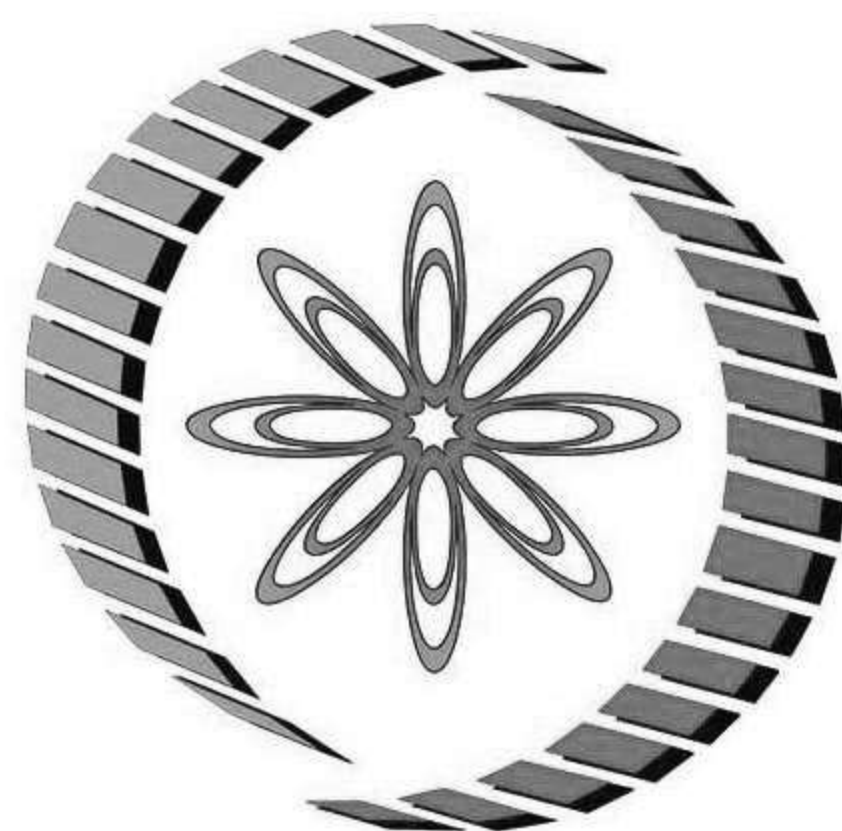
Roll No: NPTEL23CS90S735500764

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SIMON SINGHAL**

for successfully completing the course

**Google Cloud Computing Foundations**

with a consolidated score of **65** %

Online Assignments	18.5/25	Proctored Exam	46.88/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **4443**

**Aug-Oct 2023**

**(8 week course)**

  
Director  
Chandrasekharendra Prasad Group of Institutions  
KP-111, Greater Noida-201306

**Prof. Haimanti Banerji**

Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



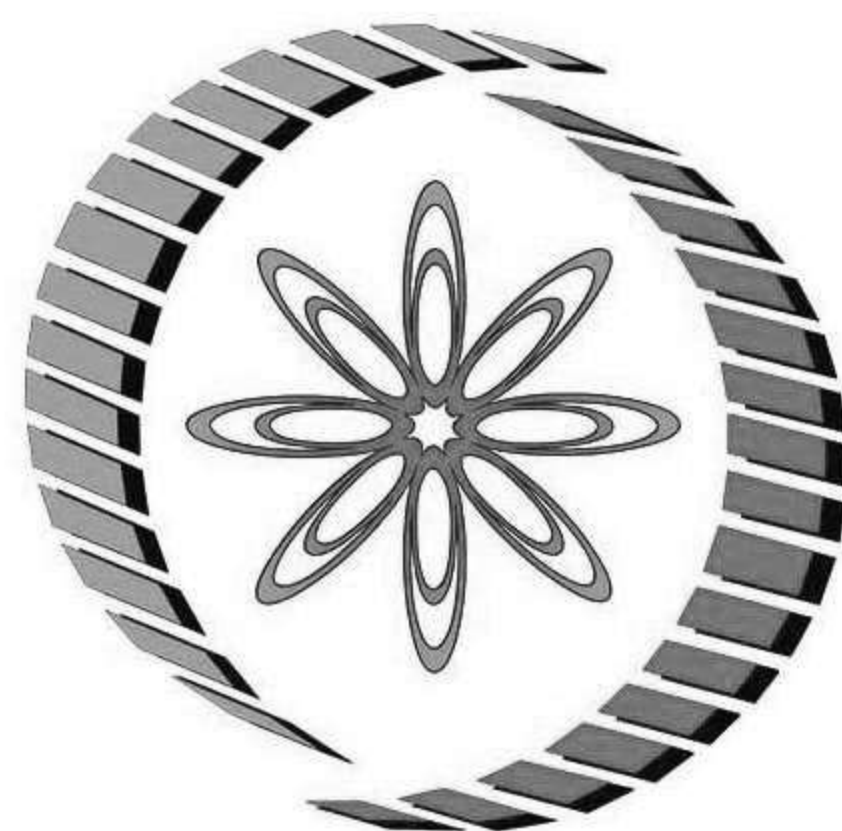
Roll No: NPTEL23CS90S743801128

To verify the certificate



No. of credits recommended: 2 or 3





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**VANSH MEHTA**

*for successfully completing the course*

## Problem Solving through Programming In C

with a consolidated score of **65** %

Online Assignments	24.88/25	Proctored Exam	40.16/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **2979**

**Jan-Apr 2024**

**(12 week course)**



Director  
Dronacharya Group of Institutions  
Phase-III, Greater Noida-201306



**Prof. Haimanti Banerji**

Coordinator, NPTEL

IIT Kharagpur



Indian Institute of Technology Kharagpur



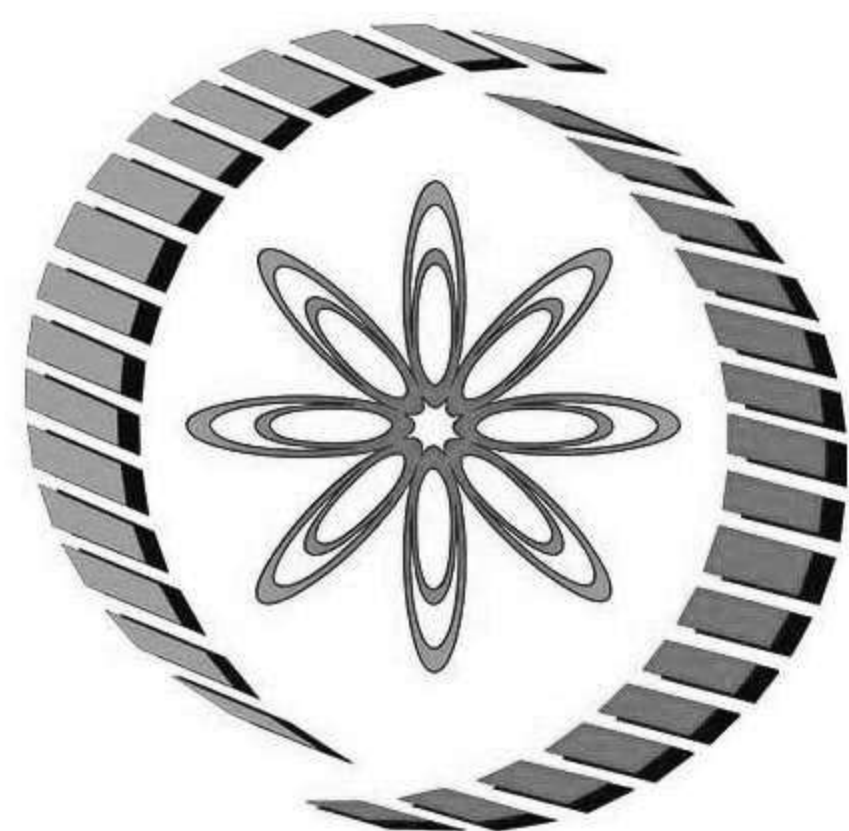
Roll No: NPTEL24CS42S654304676

To verify the certificate



No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



*This certificate is awarded to*

**ADARSH PANDEY**

*for successfully completing the course*

**Python for Data Science**

*with a consolidated score of* **53** %

<b>Online Assignments</b>	<b>20.5/25</b>	<b>Proctored Exam</b>	<b>32.91/75</b>
---------------------------	----------------	-----------------------	-----------------

*Total number of candidates certified in this course:***11953**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,

Centre for Outreach and Digital Education, IITM

**Jan-Feb 2024**

**(4 week course)**

*Director*

Dr. Anurag K. Singh  
Director  
Dr. Anurag K. Singh Group of Institutions  
27, P-111, Greater Noida-201306

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS54S644200758

To verify the certificate



No. of credits recommended: 1 or 2





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**AYUSH GARG**  
for successfully completing the course

## Speaking Effectively

with a consolidated score of **65** %

Online Assignments	16.8/25	Proctored Exam	48/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: **2076**

Jan-Mar 2023  
(8 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS13S14420075

To validate the certificate



No. of credits recommended: 2 or 3



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MEGHA**  
for successfully completing the course

## Speaking Effectively

with a consolidated score of **69** %

Online Assignments	18.4/25	Proctored Exam	50.25/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **2076**

Jan-Mar 2023  
(8 week course)

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS13S24420477

To validate the certificate



No. of credits recommended: 2 or 3

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**AKANSHA**  
for successfully completing the course

## Patent Law for Engineers and Scientists

with a consolidated score of **52** %

Online Assignments	20.63/25	Proctored Exam	31/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **206**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairperson,  
Centre for Outreach and Digital Education, IITM

**Jan-Apr 2023**  
**(12 week course)**

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23HS26S33550842

To validate the certificate



No. of credits recommended: 3 or 4

*Director*

**Director**  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**ASTHA SINGH**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **73** %

Online Assignments	24.78/25	Proctored Exam	48/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **14770**

Jan-Apr 2023  
(12 week course)

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS51563610893

To validate the certificate



No. of credits recommended: 3 or 4



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**DEEKSHA GUPTA**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **64** %

Online Assignments	23.1/25	Proctored Exam	40.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: **14770**

Jan-Apr 2023

(12 week course)  
Director  
Indira Gandhi Group of Institutions  
27, KP-III, Greater Noida-201306

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS51563610948

To validate the certificate



No. of credits recommended: 3 or 4



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**NISHITA SHARMA**  
for successfully completing the course



## Introduction to Internet of Things

with a consolidated score of **77** %

Online Assignments	24.35/25	Proctored Exam	52.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **14770**

Jan-Apr 2023  
(12 week course)

  
Director

  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Roll No: NPTEL23CS51553443421

To validate the certificate



No. of credits recommended: 3 or 4



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KOMAL BORA**

for successfully completing the course

## Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **60** %

Online Assignments	21.22/25	Proctored Exam	39.27/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7689**

Jan-Apr 2023  
(12 week course)

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS52S33442945

To validate the certificate



No. of credits recommended: 3 or 4



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**NITIKA YADAV**  
for successfully completing the course

## Data Analytics with Python

with a consolidated score of **58** %

Online Assignments	24.38/25	Proctored Exam	33.51/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7860**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2023**  
**(12 week course)**

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23CS08S63610854

To validate the certificate



No. of credits recommended: 3 or 4

**Director**  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**VISHAL CHAUHAN**

for successfully completing the course

## Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **67** %

Online Assignments	24.78/25	Proctored Exam	42.19/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7689**

Jan-Apr 2023  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS52543611775

To validate the certificate



No. of credits recommended: 3 or 4

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

A CSR initiative sponsored by

**Honeywell**



Sponsored by  
Honeywell

Student  
Empowerment  
Program

Implemented by



**ICTACADEMY\***

# **CERTIFICATE OF RECOGNITION**

This is to certify that

**SNEHA GUPTA**

has successfully completed the course on AWS Certified Cloud Practitioner (CLF-C01)

with Grade **C** under Honeywell Student Empowerment Program held from 06 Feb 2023 to 22 Feb 2023

at Dronacharya College of Engineering, Gurugram, Haryana

Pooja Thakran,  
Sr. Director - Corporate Communications &  
CSR, Honeywell

C.No: G-2023-W2895-0043 | Date: 22 Feb 2023

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

Hari Balachandran  
Chief Executive Officer, ICT Academy

A CSR initiative sponsored by

**Honeywell**



Sponsored by  
Honeywell

**Student  
Empowerment  
Program**

Implemented by



**ICTACADEMY®**

# **CERTIFICATE OF RECOGNITION**

This is to certify that

**AAYUSH**

has successfully completed the course on AWS Certified Cloud Practitioner (CLF-C01)  
with Grade **B** under Honeywell Student Empowerment Program held from 06 Feb 2023 to 22 Feb 2023  
at Dronacharya College of Engineering, Gurugram, Haryana

Pooja Thakran,  
Sr. Director - Corporate Communications &  
CSR, Honeywell

C.No: G-2023-W2895-0045 | Date: 22 Feb 2023

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

Hari Balachandran  
Chief Executive Officer, ICT Academy

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

CERTIFICATE OF COMPLETION

This is to certify that  
Mr./Ms. HARDIK THAPLIYAL of CSE Dept. (1st Year) has successfully  
completed six days Student Development Program on  
“Android App Development”  
from 05<sup>th</sup> to 10<sup>th</sup> September, 2022.



**Prof Shantanu Pant.**  
Co-ordinator



**Dr. Pawan Kumar Sharma**  
HOD



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

CERTIFICATE OF COMPLETION

This is to certify that

Mr./Ms. **GARIMA VERMA** of **CSE Dept. (1st Year)** has successfully  
completed six days Student Development Program on  
“Android App Development”  
from 05<sup>th</sup> to 10<sup>th</sup> September, 2022.



**Prof Shantanu Pant.**  
*Co-ordinator*



**Dr. Pawan Kumar Sharma**  
*HOD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## **Short-Term Development Program (SDP) on Android App Development**

**Course:** Certificate Program on Android App Development

**Date:** 5th – 10th September 2022

**Duration:** 6 Day

**Target Students:** Applied Science and Humanities Department (APS Students)

## **Course Module**

### **Day 1: Introduction to Android Development**

- Overview of Android OS and ecosystem
- Setting up Android Studio
- Understanding the project structure
- Creating your first Android project (Hello World)
- Basics of XML and Java/Kotlin in Android

### **Day 2: UI Components and Layouts**

- Working with UI components: TextView, EditText, Button, ImageView, etc.
- Layouts: LinearLayout, RelativeLayout, ConstraintLayout
- Event handling (onClick, listeners)
- Introduction to themes and styles

### **Day 3: Activity Lifecycle and Intents**

- Understanding Activity and Fragment lifecycle
- Navigating between activities using Intents
- Passing data between activities
- Introduction to implicit and explicit intents

### **Day 4: Data Storage and Permissions**



Director

- SharedPreferences
- Internal and external storage
- SQLite database basics
- Working with runtime permissions

### **Day 5: Working with APIs and Networking**

- Introduction to REST APIs
- Using Retrofit/Volley for API calls
- JSON parsing
- Displaying API data using RecyclerView

### **Day 6: Final Project & Evaluation**

- Mini project development (individual or group)
- Project topics provided (e.g., To-Do App, Weather App)
- Debugging and best practices
- Project presentation and feedback session



Director

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

## Evaluation Pattern

Component	Marks (%)
Daily Assignments	20%
Attendance & Participation	10%
Final Project (Functionality)	30%
Final Project (UI/UX)	20%
Viva / Presentation	20%
Total	100%



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. DAKSH GUPTA** of **CSE Dept. (1st Year)** *has successfully completed six days Student Development Program on “HTML/CSS – Making Web Pages ” from 16<sup>th</sup> to 21<sup>st</sup> January, 2023.*

  
**Dr. Manoj Kumar Yadav**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** ARPITA RAWAT **of** CSE Dept. (1st Year) **has successfully**  
**completed six days Student Development Program on**  
**“HTML/CSS – Making Web Pages ” from 16<sup>th</sup> to 21<sup>st</sup> January, 2023.**

**Dr. Manoj Kumar Yadav**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director





## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** PIYUSH VERMA **of** CSE Dept. (1st Year) **has successfully**  
**completed six days Student Development Program on**  
**“HTML/CSS – Making Web Pages ” from 16<sup>th</sup> to 21<sup>st</sup> January, 2023.**

**Dr. Manoj Kumar Yadav**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director

## **SDP on Introduction to HTML/CSS – making web pages**

**Course:** SDP on Introduction to HTML/CSS – making web pages

**Date:** 16th -21st January 2023

**Duration:** 6 Day

**Target Students:** Applied Science and Humanities Department (APS Students)

### **Course Timeline: Day-by-Day Module Breakdown**

#### **Day 1: Understanding the Web & HTML Basics**

- What is a website? How the web works.
- Introduction to HTML5
- Basic structure of an HTML document
- Tags, elements, attributes, headings, paragraphs, links

#### **Day 2: Formatting Content**

- Lists (ordered, unordered, definition)
- Images and media embedding
- Tables and their structure
- Forms and input elements

#### **Day 3: Introduction to CSS**

- Inline, internal, and external CSS
- Syntax, selectors, properties
- Styling text, colors, borders, backgrounds

#### **Day 4: Page Layout and Design**

- Box model (margin, padding, border, content)



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

- Display types: block, inline, inline-block
- Flexbox basics for responsive layouts

#### **Day 5: Mini Project - Building a Simple Web Page**

- Wireframing and planning
- Implementing HTML structure and applying CSS styles
- Responsive adjustments

#### **Day 6: Project Review & Feedback**

- Final touches on mini project
- Peer reviews and instructor feedback
- Demonstration & explanation session



Director

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

### **Assessment Procedure: Rubric-Based Evaluation**

<b>Component</b>	<b>Criteria</b>	<b>Weightage</b>
<b>Daily Hands-on Tasks</b>	Completion, correctness, and creativity	25%
<b>Class Participation</b>	Engagement in discussions and Q&A	10%
<b>Mini Project: HTML Structure</b>	Proper use of tags, layout, and semantics	20%
<b>Mini Project: CSS Styling</b>	Visual design, responsiveness, neatness	25%
<b>Presentation &amp; Explanation</b>	Clarity, confidence, and understanding	20%
<b>Total</b>		<b>100%</b>



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# DRONACHARYA




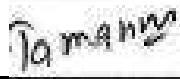
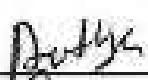




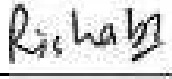




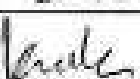

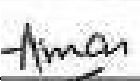

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

**DATE: 22nd-27th August 2022**

### SDP on Mathematics and Analytical Skills

### Students Enrollment Sheet


S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AMISHA YADAV	17021	CSE	
2	AMIT SHARMA	17022	CSE	
3	SUMIT KUMAR JHA	17181	CSE	
4	TAMANNA KUMARI	17183	CSE	
5	ADITYA GUPTA	17010	CSE	
6	ADITYA YADAV	17012	CSE	
7	ANUBHAV GUPTA	17038	CSE	
8	ASHMIT GAUTAM	17050	CSE	
9	BHUMIKA DHINGRA	17055	CSE	
10	RISHABH TOMAR	17059	CSE	
11	DHRUV GAIROLA	17063	CSE	
12	GULSHAN KUMAR	17070	CSE	
13	HARSH SHARMA	17075	CSE	
14	JAI KISHAN SHARMA	17082	CSE	
15	KANAK RAWAT	17084	CSE	
16	SUBHRANSHU PATTNAYAK	17175	CSE	
17	AMAN KUMAR MAURYA	17215	CSIT	
18	AMAN SHUKLA	17217	CSIT	

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19	ARJUN S NAIR	17221	CSIT	Arjun	
20	MONIKA SINGH	17223	CSIT	Monika	
21	ASHUTOSH KARN	17224	CSIT	Arjun	
22	SURAJ KUMAR	17235	CSIT	Suraj	
23	GARV CHAUDHARY	17236	CSIT	Garv	
24	HIMANSHU PRATAP SINGH	17250	CSIT	Himanshu	
25	VATSAL SAXENA	17317	CSIT	Vatsal	
26	VIKASH	17319	CSIT	Vikash	
27	ANUJ SHARMA	17343	IT	Anuj	
28	AYUSH SINGH	17344	IT	Ayush	
29	CHIRAG GUPTA	17345	IT	Chirag	
30	DIWAKAR KUMAR	17353	IT	Diwakar	
31	PARTH SINGH	17356	IT	Parth	
32	ANUBHAV YADAV	17386	AIML	Anubhav	
33	ANUSHIKA JHA	17388	AIML	Anushika	
34	HARSH DIKHIT	17398	AIML	Harsh	
35	HARSH TIWARI	17400	AIML	Harsh	
36	ROBIN NEGI	17401	AIML	Robin	
37	KALI GUPTA	17402	AIML	Kali	
38	RUPASHI BISHT	17422	AIML	Rupashi	
39	SHINA SHARMA	17427	AIML	Shina	
40	SHIVAM GOYAL	17428	AIML	Shivam	
41	NIKHIL DUBEY	17435	AIML	Nikhil	
42	KARAN CHAURASIYA	17439	AIML	Karan	
43	VANSH TOMAR	17436	AIML	Vansh	

44	AKSHAY KUMAR	17554	ECZ		AKSH
45	DEEPAK CHAUHAN	17563	ECZ		Deepak
46	MOHD AMMAR	17571	ECZ		Mohd
47	RASHMI SINGH	17573	ECZ		Rashmi
48	SOHAIB AKHTAR	17579	ECZ		Sohai
49	MADHAVI SANGAM	17595	ECZ		Madh
50	MANOJ AGARWAL	17564	ECZ		Manoj
51	HARSH SINGH ARYA	17453	ECE		Harsh
52	SAROJ KUMAR RANJAN	17463	ECE		Saroj
53	RAGHAV TIWARI	17478	ECE		Raghu
54	SHREYA CHAUHAN	17485	ECE		Shreya
55	AAYUSHI VERMA	17491	ECE		Aayush
56	RHEA BHARDWAJ	17475	ECE		Rhea
57	AYUSH KUMAR MISHRA	17521	EEE		Ayush
58	SAMAY DUBEY	17537	EEE		Samay
59	GAURAV CHAUHAN	17540	EEE		Gaurav
60	INDRANIL SINGH	17532	EEE		Indranil
61	SHLOK TIWARI	17527	EEE		Shlok
62	ARIHANT JAIN	17611	ME		Arihan
63	HIRAN TRIPATHI	17623	ME		Hiran
64	SAMEER TIWARI	17632	ME		Sameer
65	ATUL MISHRA	17637	ME		Atul

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**Co-ordinator** **Head of the Department**  
**Ms. Bhanu Bhardwaj** **Dr. Pawan Sharma**

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Mr./Ms. AAYUSHI VERMA of ECE Dept. (1st Year) has successfully  
completed six days Student Development Program on  
“Mathematics and Analytical Skills”  
from 22<sup>nd</sup> to 27<sup>th</sup> August, 2022.

**Ms. Bhanu Bhardwaj**  
Co-ordinator

**Dr. Pawan Sharma**  
HOD

**Prof. (Dr.) Arpita Gupta**  
Director

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completed six days Student Development Program on  
“Mathematics and Analytical Skills”  
from 22<sup>nd</sup> to 27<sup>th</sup> August, 2022.

**Ms. Bhanu Bhardwaj**  
Co-ordinator

**Dr. Pawan Sharma**  
HOD

**Prof. (Dr.) Arpita Gupta**  
Director

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**Add on Certificate Program on Mathematics and Analytical Skills**

**Course:** Add on Certificate Program on Mathematics and Analytical Skills

**Date:** 22nd-27th August 2022

**Duration:** 6 Day

**Target Students:** Applied Science and Humanities Department (APS Students)

Day & Date	Topic	Key Objectives
<b>Day 1</b> 22 Aug 2022	Number Systems & Arithmetic Logic	Understanding integers, fractions, decimals, and BODMAS rules.
<b>Day 2</b> 23 Aug 2022	Algebraic Expressions & Linear Equations	Simplifying expressions, solving simple equations, applying formulas.
<b>Day 3</b> 24 Aug 2022	Ratio, Proportion, Percentages	Application in real-world problems, profit/loss, discounts, interest calculation.
<b>Day 4</b> 25 Aug 2022	Logical Reasoning & Puzzles	Series, analogies, direction sense, odd one out, pattern recognition.
<b>Day 5</b> 26 Aug 2022	Data Interpretation & Basic Statistics	Bar graphs, pie charts, tables, mean, median, mode.
<b>Day 6</b> 27 Aug 2022	Mock Test, Group Challenge & Review	Full practice test, team-based puzzle solving, feedback and doubt-clearing.



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## **Assessment Scheme – Tiered Evaluation System**

### **1. Daily Concept Application (30%)**

- In-class problem solving
- Quick quizzes and concept checkers
- Worksheets submitted at end of each session

### **2. Final Day Mock Test (30%)**

- Objective questions covering all modules
- Timed format to test accuracy and speed

### **3. Group Analytical Challenge (20%)**

- Team-based puzzle or case-based reasoning problem
- Creativity, logic, and collaboration assessed

### **4. Engagement & Participation (20%)**

- Daily attendance
- Contribution in discussions and problem-solving sessions



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## **Course Module and Assessment Rubrics for the Certificate Program on Ethical Hacking & Cybersecurity Fundamentals (16th–21st January 2023)**

**Target Students:** Applied Science and Humanities Department (APS Students)

### **Day 1: Introduction to Ethical Hacking**

- What is Ethical Hacking?
- Types of Hackers
- Legal and Ethical Issues
- Footprinting and Reconnaissance (Passive & Active)

### **Day 2: Scanning Networks**

- Network Scanning Techniques
- IP, Port, and Service Scanning
- Vulnerability Scanners (e.g., Nessus)

### **Day 3: System Hacking**

- Password Cracking Techniques
- Privilege Escalation
- Keyloggers and Spyware
- Covering Tracks

### **Day 4: Web Application Security**

- OWASP Top 10 Vulnerabilities
- SQL Injection
- Cross-site Scripting (XSS)
- Broken Authentication



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### **Day 5: Wireless and Mobile Security**

- Wireless Encryption Protocols (WEP/WPA/WPA2)
- Wi-Fi Cracking Tools (Aircrack-ng)
- Mobile OS Security and Common Vulnerabilities

### **Day 6: Cybersecurity Fundamentals & Hands-on**

- Firewalls & IDS/IPS
- Basics of Cryptography
- Secure Network Architecture
- Practical lab using tools like Wireshark, Nmap, Burp Suite



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## Assessment Rubrics

Criteria	Excellent (5)	Good (4)	Average (3)	Needs Improvement (1-2)
<b>Participation &amp; Engagement</b>	Actively engaged, asks questions	Generally attentive and participates	Minimal participation	Rarely engaged
<b>Lab Assignments</b>	Completed all with high accuracy	Completed most with minor errors	Completed with moderate issues	Incomplete or poorly done
<b>Quizzes</b>	Score $\geq 85\%$	Score 70–84%	Score 50–69%	Score $< 50\%$
<b>Hands-on Practical Test</b>	Demonstrates full understanding and skill	Performs most tasks correctly	Needs help with tasks	Fails to execute tasks
<b>Final Project/Report</b>	Clear, well-organized, insightful	Adequate clarity and depth	Lacks depth or clarity	Poorly structured or missing
<b>Teamwork (if applicable)</b>	Collaborates effectively	Generally works well	Some conflicts or inefficiency	Poor collaboration



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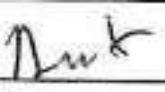
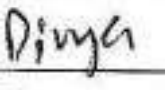
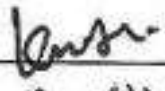
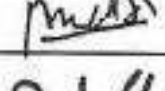
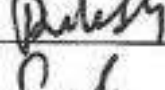
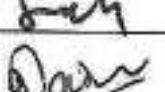
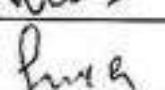
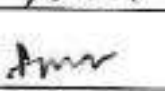
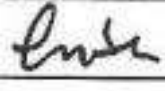
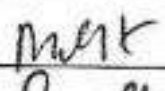
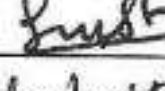
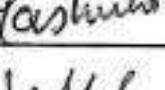
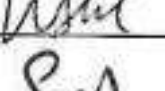

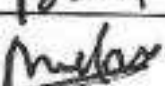


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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

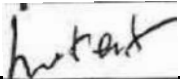
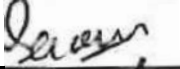
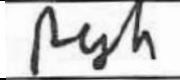
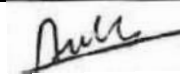
DATE: 22nd-27th August 2022

Risk Management and Compliance				
Students Enrollment Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ARPIT SHARMA	17701	MBA	
2	DIVYA SINGH	17703	MBA	
3	KIRAN KUMARI	17705	MBA	
4	MADHU KUMARI	17706	MBA	
5	RAKESH GUPTA	17708	MBA	
6	SNEHA DIWAKAR	17711	MBA	
7	NAINA SEHRAWAT	17714	MBA	
8	SONIA SEHRAWAT	17715	MBA	
9	AMAR KUMAR	17717	MBA	
10	GUPTA MANISH UDAYBHAN	17720	MBA	
11	MOHIT KUMAR	17723	MBA	
12	SUMEET KUMAR	17725	MBA	
13	YASHWANT PRABHAKAR	17726	MBA	
14	VISHAL BHARDHUJ	17731	MBA	
15	SONU HANDA	17734	MBA	
16	AVNISH KUMAR	17735	MBA	
17	MOHAMMAD FAIZAN	17737	MBA	

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18	INDRAJEET PRASAD DUBEY	17741	MBA	
19	SACHIN NAGAR	17743	MBA	
20	PIYUSH CHAUBEY	17746	MBA	
21	AKASH WALIA	17756	MBA	



**Co-ordinator**  
**Dr. Sahab Singh**



**Head of the Department**  
**Dr. Vandana Pareek**



**Director**  
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**Student Development Program**

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*This is to certify that*

*Mr./Ms. KIRAN KUMARI of MBA Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“Risk Management and Compliance ”  
from 22<sup>nd</sup> to 27<sup>th</sup> August, 2022.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
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*Mr./Ms. SNEHA DIWAKAR of MBA Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“Risk Management and Compliance ”  
from 22<sup>nd</sup> to 27<sup>th</sup> August, 2022.*

  
**Dr. Sahab Singh**  
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Director

  
Director  
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*Mr./Ms. MADHU KUMARI of MBA Dept. (2nd Year) has successfully  
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from 22<sup>nd</sup> to 27<sup>th</sup> August, 2022.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
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## **Add on Certificate Program on Risk Management and Compliance**

**Course:** Add on Certificate Program on Risk Management and Compliance

**Date:** 22nd-27th August 2022

**Duration:** 6 Day

**Target Students:** MBA Students

**Focus:** Understanding organizational risks, regulatory requirements, and frameworks for compliance.

## **Course Module**

### **Day 1: 22nd August (Monday)**

**Topic:** *Introduction to Risk Management*

- Understanding Risk: Definitions and Categories
- Importance of Risk Management in Business
- Types of Business Risks (Operational, Financial, Strategic, Reputational)
- Risk Identification Techniques

---

### **Day 2: 23rd August (Tuesday)**

**Topic:** *Risk Assessment and Analysis*

- Risk Assessment Tools (Qualitative & Quantitative)
- Risk Matrix and Heat Maps
- Case Study: Identifying Risks in a Business Scenario
- Risk Prioritization and Treatment Planning

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### **Day 3: 24th August (Wednesday)**

**Topic:** *Compliance and Regulatory Frameworks*

- Introduction to Compliance and Legal Risk
  - Overview of Regulatory Bodies (SEBI, RBI, IRDAI, etc.)
  - Corporate Governance and Ethical Practices
  - Policies and Compliance Documentation
- 

### **Day 4: 25th August (Thursday)**

**Topic:** *Enterprise Risk Management (ERM)*

- Components of ERM
  - ISO 31000 Framework
  - Risk Appetite and Risk Tolerance
  - Embedding Risk Culture in an Organization
- 

### **Day 5: 26th August (Friday)**

**Topic:** *Risk Monitoring and Mitigation Strategies*

- Developing and Implementing Mitigation Plans
  - Risk Control Measures
  - Internal Audits and Compliance Checks
  - Technology in Risk Monitoring (GRC Tools)
- 

### **Day 6: 27th August (Saturday)**

**Topic:** *Capstone Activity & Review*

- Group Discussion: Real-world Compliance Failures
- Capstone Exercise: Risk Assessment for a Case Company
- Feedback Session
- Q&A + Certificate Distribution



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## **Assessment & Evaluation Pattern**

**Student Development Program: Risk Management and Compliance**

**Duration: 6 Days**

**Dates: 22nd – 27th August 2022**

---

### **Evaluation Components**

#### **1. Daily Reflection Sheets (20%)**

- End-of-day written reflections (200–300 words)
  - Focus: Key takeaways, personal insights, and real-world application
  - Assessed on depth of thought and relevance
- 

#### **2. Concept Quiz (20%)**

- Conducted on Day 4 (Online/Offline MCQs)
  - Topics: Risk Types, Assessment Tools, Compliance Laws
  - 20 questions – 1 mark each
- 

#### **3. Capstone Case Assessment (30%)**

- Group Activity on Day 6
- Teams analyze a real-world company scenario
- Deliverables: Risk register, mitigation plan, and compliance checklist
- Evaluated on accuracy, clarity, and teamwork



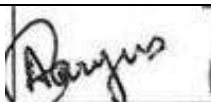
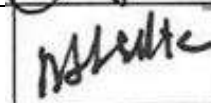
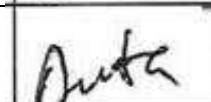
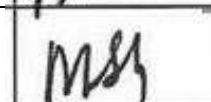
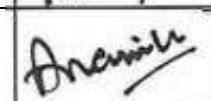
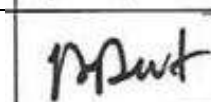
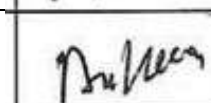
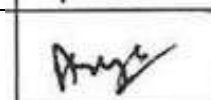
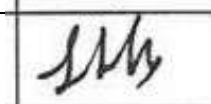
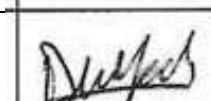
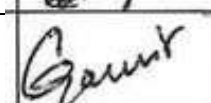
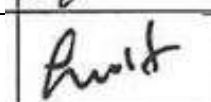
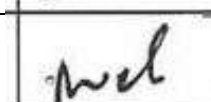

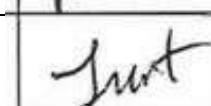
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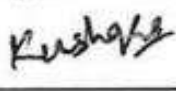
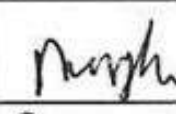

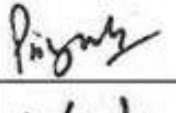
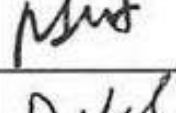
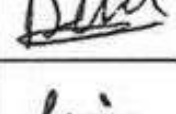
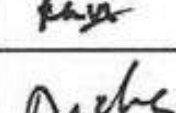
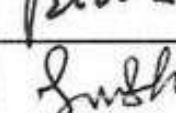
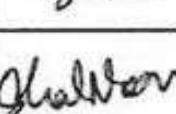
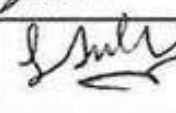
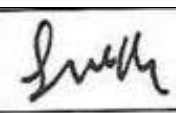
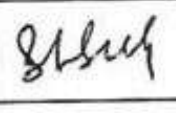
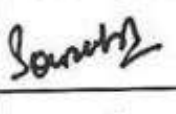
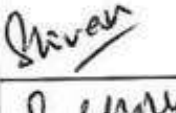
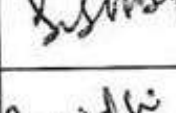
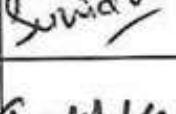
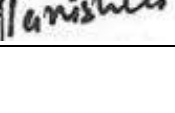

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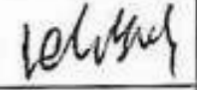
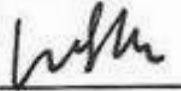
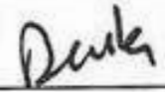
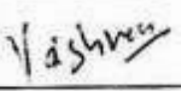
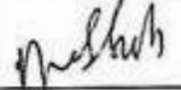
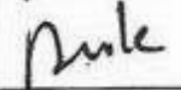
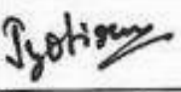
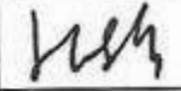
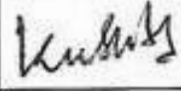
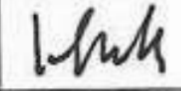
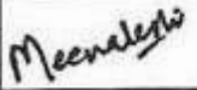


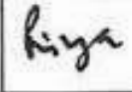
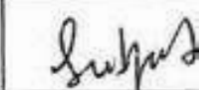
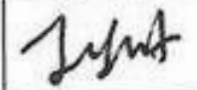
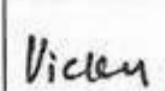

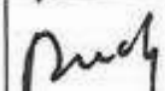
DATE: 03rd-08th October 2022		Topic: SDP on Natural Language Processing (NLP) in Python.		
Students Enrollment Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AARYAN SHARMA	16001	CSE	
2	ABHISHEK MISHRA	16007	CSE	
3	ADITYA NAIR	16012	CSE	
4	AKSH RUSTAGI	16018	CSE	
5	ANAMIKA	16032	CSE	
6	ANKUSH RAWAT	16037	CSE	
7	ARCHIKA VERMA	16041	CSE	
8	ARYAN	16043	CSE	
9	ASTHA SINGH	16046	CSE	
10	DEEPAK SINGH YADAV	16064	CSE	
11	GARVIT GAURI	16072	CSE	
12	GOBIND PRASAD BARICK	16075	CSE	
13	MOHD AZEEM MALIK	16084	CSE	
14	JAYANT YADAV	16087	 CSE	

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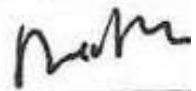
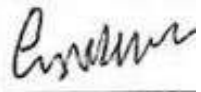




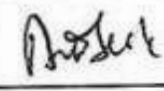

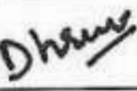
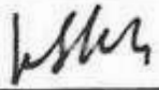
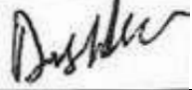
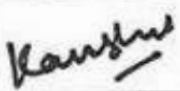
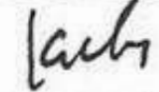
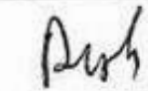
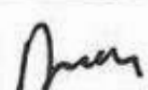
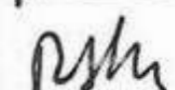
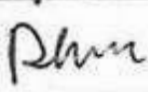
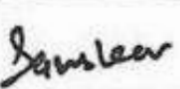
15	KAMAKSHI GUPTA	16089	CSE		
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17	MEENAKSHI JHA	16104	CSE		
18	OMVEER PANWAR	16118	CSE		
19	PIYUSH YADAV	16122	CSE		
20	PRASHANT DIXIT	16125	CSE		
21	RAHUL RAJ	16135	CSE		
22	RAVI KUMAR	16138	CSE		
23	RICHA YADAV	16140	CSE		
24	SAKSHAM SAKLANI	16154	CSE		
25	SHAH NOOR UL ISHTIYAQ	16158	CSE		
26	SHAINA SALMANI	16160	CSE		
27	SHREYAN SHUKLA	16166	CSE		
28	SHRIYA SINGH	16167	CSE		
29	SOURABH PARGAI	16172	CSE		
30	SHIVAM NAGAR	16174	CSE		
31	SRISHTI MITTAL	16177	CSE		
32	SUNIDHI TOMAR	16181	CSE		
33	TANISHKA SHANKHDHAR	16184	CSE		

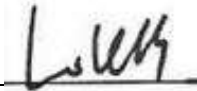
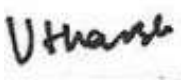

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34	UDAY YADAV	16191	CSE		
35	VAIBHAV KUMAR GUPTA	16198	CSE		
36	DEEPAK BAHAL	16808	CSE		
37	VAISHNAVI KUMARI	16812	CSE		
38	MOHIT SINGH	16817	CSE		
39	ANKIT	16285	CSIT		
40	JYOTIRADITYA RAJAT	16293	CSIT		
41	HARSH SINGH	16299	CSIT		
42	KUNAL VATS	16304	CSIT		
43	KHUSHI KAPOOR	16306	CSIT		
44	MEENAKSHI SINGH	16311	CSIT		
45	PRERNA YADAV	16315	CSIT		
46	RAHUL RAJ PANDEY	16318	CSIT		
47	RIYA SHARAD	16322	CSIT		
48	SHRUTI MEHRA	16328	CSIT		
49	JASMEET SINGH	16333	CSIT		
50	VICKY KUMAR	16337	CSIT		
51	FARDEEN KHAN	16341	CSIT		
52	PRACHI SHARMA	16828	CSIT		

  
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53	AMIT PAL	16210	IT	
54	APURV RANA	16204	IT	
55	GAGAN KUMAR	16216	IT	
56	RAJAN KUMAR	16228	IT	
57	RIYA BISHT	16230	IT	
58	VARUN SHRIVASTAVA	16242	IT	
59	ADANAN WARIS ASHRAF	16344	AIML	
60	ANKUR TRIPATHI	16350	AIML	
61	DIVYANSHU KUMAR	16356	AIML	
62	DHRUV AGGARWAL	16366	AIML	
63	KAUSHAL PRATAP SINGH	16368	AIML	
64	DINESH KUMAR	16372	AIML	
65	KAUSHAL SHARMA	16382	AIML	
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69	PRIYANKA KUSHWAHA	16398	AIML	
70	REKHA	16403	AIML	
71	SANSKAR SHUKLA	16410	AIML	

72	LOKESH KUMAR	16420	AIML	
73	UTKARSH TIWARI	16430	AIML	
74	HARSHIT SINGH	16444	AIML	



**Co-ordinator**  
**Mr. Bhuvnesh Chaturvedi**



**Head of the Department**  
**Dr. Bipin Pandey**



**Director**  
**Dronacharya Group of Institutions**  
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

This is to certify that

Mr./Ms. KUNAL of CSE(AIIML) Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“Natural Language Processing (NLP) in Python.”  
from 3<sup>rd</sup> to 8<sup>th</sup> October, 2022.

*Bhuvnesh Chaturvedi*

**Prof Bhuvnesh Chaturvedi**  
Co-ordinator

*Bipin*

**Prof. Bipin Pandey**  
HOD

*Arpita*

**Prof. (Dr.) Arpita Gupta**  
Director

*Arpita*

Director  
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Greater Noida

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**CERTIFICATE OF COMPLETION**

This is to certify that

Mr./Ms. RIYA BISHT of IT Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
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from 3<sup>rd</sup> to 8<sup>th</sup> October, 2022.

*Bhuvnesh Chaturvedi*

**Prof Bhuvnesh Chaturvedi**  
Co-ordinator

*Bipin*

**Prof. Bipin Pandey**  
HOD

*Arpita*

**Prof. (Dr.) Arpita Gupta**  
Director

*Arpita*

Director

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## **Course Module: SDP on Natural Language Processing (NLP) in Python**

**Duration:** 6 Days (3rd - 8th October 2022)

**Daily Hours:** 5 hours (inclusive of lectures, practicals, and discussions)

**Target Students:** CSE/CSIT students

### **Day 1: Introduction to NLP and Python for NLP**

- **Topics Covered:**
  - What is NLP? Applications and Scope
  - Overview of NLP pipelines
  - Setting up Python and NLP environment (Jupyter, Anaconda, etc.)
  - Introduction to nltk and spaCy
  - Tokenization, Stopwords, and Basic Text Preprocessing
- **Hands-on:**
  - Tokenizing news articles
  - Removing stopwords and punctuation

---

### **Day 2: Text Processing and Regular Expressions**

- **Topics Covered:**
  - Lemmatization vs. Stemming
  - POS (Part-of-Speech) Tagging
  - Named Entity Recognition (NER)
  - Using Regular Expressions in text cleaning
- **Hands-on:**
  - POS tagging using spaCy
  - Extracting patterns with regex

---

### **Day 3: Feature Engineering for Text Data**

- **Topics Covered:**
  - Bag of Words model
  - TF-IDF (Term Frequency-Inverse Document Frequency)
  - Text vectorization using scikit-learn
  - Introduction to Word Embeddings (Word2Vec, GloVe)



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- **Hands-on:**
    - Text classification using BoW and TF-IDF
- 

#### Day 4: Text Classification and Sentiment Analysis

- **Topics Covered:**
    - Supervised learning for NLP
    - Naive Bayes, Logistic Regression for text classification
    - Sentiment analysis using TextBlob and VADER
  - **Hands-on:**
    - Build a spam classifier
    - Perform sentiment analysis on tweets/reviews
- 

#### Day 5: Advanced NLP Techniques

- **Topics Covered:**
    - Introduction to Deep Learning in NLP
    - Using transformers and pre-trained models from Hugging Face
    - Text summarization and translation
  - **Hands-on:**
    - Summarize a news article using transformers
    - Text generation using GPT-2/BERT
- 

#### Day 6: Capstone Project and Evaluation

- **Topics Covered:**
  - Capstone project: Real-world NLP use case (e.g., Resume Parser, Chatbot, Sentiment Engine)
  - Group presentations / Demonstration
  - Feedback and Q&A session
- **Hands-on:**
  - Build and present a mini-project using learned techniques



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## Evaluation Pattern

Component	Weightage (%)
Daily Hands-on Assignments	30%
Quizzes (Day 2 and Day 4)	20%
Capstone Project (Demo + Code Quality)	40%
Participation and Interaction	10%
<b>Total</b>	<b>100%</b>



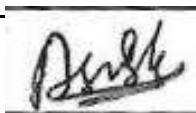

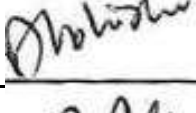
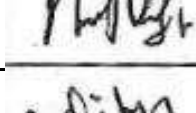
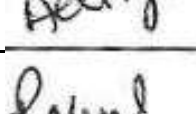
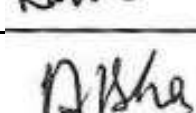
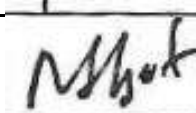
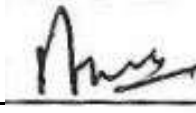
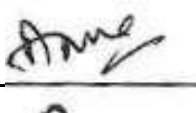
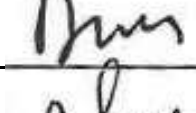
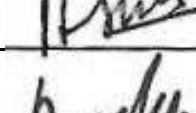

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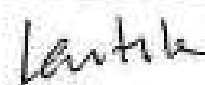




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 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 13th 18th February 2023		Topic: SDP on Simulation of cloud Data Center and its services		
Students Enrollment Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ABHINAV SINGH	16003	CSE	
2	ABHINAV CHAURASIA	16004	CSE	
3	ABHISHEK SHARMA	16009	CSE	
4	ABHINAV NEGI	16010	CSE	
5	ADITYA CHAUDHARY	16011	CSE	
6	RAHUL KUMAR	16014	CSE	
7	AKANSHA	16016	CSE	
8	AMARJEET GIRI	16020	CSE	
9	AMAN BANSAL	16021	CSE	
10	AMAN KUMAR	16023	CSE	
11	AMAN PANDEY	16025	CSE	
12	AMAN SINGH	16028	CSE	
13	AMANDEEP SINGH ROUTELA	16029	CSE	

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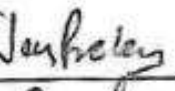

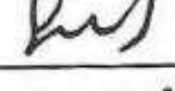
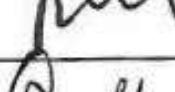
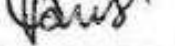
14	AMIT KUMAR	16030	CSE	
15	ANJALI RAJPUT	16035	CSE	
16	ATUL BHANOT	16049	CSE	
17	ATHARVA SRIVASTAVA	16050	CSE	
18	AVIRAL GUPTA	16052	CSE	
19	AYUSH BHATIA	16055	CSE	
20	TANISHQ KATYAYAN	16058	CSE	
21	DEEPAK	16062	CSE	
22	DHRUV JANGRA	16065	CSE	
23	FAIQUE AHMED RAZA KHAN	16070	CSE	
24	GUDDU KUMAR PANDIT	16073	CSE	
25	UTKARSH TRIPATHI	16080	CSE	
26	ISHAAN AGICHA	16082	CSE	
27	KARTIK THAKUR	16092	CSE	
28	ANIL PAL	16096	CSE	
29	MUSKAN PANDEY	16108	CSE	
30	NIKHIL KUMAR JHA	16111	CSE	
31	NIKHIL TITORIA	16113	CSE	

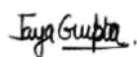
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33	PRAKHAR DUBEY	16124	CSE	Prakhar	
34	PRINCE SHARMA	16128	CSE	Prince	
35	PRIYANKA THAPA	16130	CSE	Priyanka	
36	PRAGYA SRIVASTAVA	16132	CSE	Pragya	
37	RISHABH SHUKLA	16144	CSE	Rishabh	
38	ROHIT KUMAR	16149	CSE	Rohit	
39	SHAURYA CHAUHAN	16162	CSE	Shurya	
40	SHIVANI JOSHI	16165	CSE	Shivani	
41	TANISHKA	16183	CSE	Tanisha	
42	SAKSHI VERMA	16189	CSE	Sakshi	
43	VANSHIT GUPTA	16193	CSE	Vanshit	
44	YASH PATEL	16201	CSE	Yash	
45	ARYAN KUMAR SINGH	16801	CSE	Aryan	
46	VANDANA	16278	CSIT	Vandana	
47	AZHAR ABIDEN	16283	CSIT	Azhar	
48	DEEPAK BAGHEL	16289	CSIT	Deepak	
49	DEEPAK SINGH	16291	CSIT	Deepak	



50	HARSH PARASHAR	16300	CSIT	Harsh
51	KARTHIKEY SHARMA	16301	CSIT	Karthik
52	NIKHIL RAJ	16310	CSIT	Nikhil
53	PRIYA YADAV	16314	CSIT	Priya
54	S K SARFARAZ	16325	CSIT	Sarfraz
55	TEJAS NIGAM	16336	CSIT	Tejas
56	ARBAZ KHAN ZIHANA	16823	CSIT	Arbaz
57	AKSHAT MAHESHWARI	16827	CSIT	Akshat
58	AARTI ANTHWAL	16203	IT	Aarti
59	AKANSHA TIWARI	16207	IT	Akansha
60	ATUL KUMAR JHA	16212	IT	Atul
61	SEEMA	16236	IT	Seema
62	VAIBHAV DUBEY	16250	IT	Vaibhav
63	VANSHITA DAS	16244	IT	Vanshita
64	ADYA PARASAR	16841	IT	Adya
65	ADITYA KUMAR SINGH	16342	AIML	Aditya
66	ABHISHEK YADAV	16348	AIML	Abhishek
67	ANKIT KUMAR	16354	AIML	Ankit



68	ASHLOK DUBEY	16362	AIML		
69	PRAVEEN KUMAR	16370	AIML		
70	HARSH KHURANA	16378	AIML		
71	JAYPRAKASH	16386	AIML		
72	SANDEEP KUMAR SINGH	16406	AIML		
73	SAROJ NARENDAR ASHAPAL	16424	AIML		
74	VIKRAM KUMAR MISHRA	16438	AIML		
75	RAMESH SINGH	16856	AIML		



**Co-ordinator  
Ms. Jaya Gupta**



**Head of the Department  
Dr. Bipin Pandey**



**Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306**



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. NIKITA SHARMA of CSE Dept. (2nd Year) has successfully completed six days Student Development Program on “ Simulation of cloud Data Center and its services ” from 13<sup>th</sup> to 18<sup>th</sup> February, 2023.*

**Dr. Bipin Pandey**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
Dronacharya Group of Institutions  
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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. PRIYANKA THAPA of CSE Dept. (2nd Year) has successfully completed six days Student Development Program on “ Simulation of cloud Data Center and its services ” from 13<sup>th</sup> to 18<sup>th</sup> February, 2023.*

**Dr. Bipin Pandey**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

## **Course Module: SDP on Simulation of Cloud Data Center and Its Services**

**Duration:** 6 Days (13th - 18th February 2023)

**Tools Used:** CloudSim, CloudAnalyst, iFogSim, VirtualBox, NetBeans/Eclipse, Java

**Target Students:** CSE/CSIT/AIML/IT Students

### **Day 1: Introduction to Cloud Computing and Data Centers**

- **Topics Covered:**
    - Overview of Cloud Computing: IaaS, PaaS, SaaS
    - Architecture of Cloud Data Centers
    - Virtualization: VMs vs. Containers
    - Introduction to Simulation in Cloud
    - Overview of simulation tools: CloudSim, CloudAnalyst, iFogSim
  - **Hands-on:**
    - Setup Java IDE and simulation environment
    - Explore CloudSim basic structure
- 

### **Day 2: CloudSim Architecture and Basic Simulation**

- **Topics Covered:**
    - CloudSim architecture: Core components and workflow
    - Creating data centers, hosts, VMs
    - Defining cloudlets (tasks) and resource allocation policies
    - Scheduler types: Time-shared vs. Space-shared
  - **Hands-on:**
    - Simulating a simple data center setup using CloudSim
    - Modifying VM allocation and scheduling policies
- 

### **Day 3: CloudAnalyst for High-Level Simulation**

- **Topics Covered:**
  - Introduction to CloudAnalyst GUI-based simulator



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- Simulating geographical distribution of users
  - Configuring user bases, application deployments
  - Visualizing performance and cost metrics
  - **Hands-on:**
    - Run and analyze cloud application scenarios
    - Experiment with load balancing policies
- 

## Day 4: Performance Metrics and Cost Analysis

- **Topics Covered:**
    - Measuring performance: response time, throughput, resource utilization
    - SLA violations and energy consumption metrics
    - Cost modeling in cloud simulations
    - Workload tracing and traffic modeling
  - **Hands-on:**
    - Compare simulation outcomes with different policies
    - Generate performance and cost reports using CloudAnalyst
- 

## Day 5: Advanced Simulation Topics

- **Topics Covered:**
    - Simulating Fog and Edge Computing: iFogSim introduction
    - IoT workloads in edge-cloud environments
    - Energy-aware simulation and Green Cloud computing
    - Customizing CloudSim (writing your own policies/modules)
  - **Hands-on:**
    - Create a fog computing scenario in iFogSim
    - Modify and extend scheduling logic in CloudSim
- 

## Day 6: Capstone Simulation Project and Evaluation

- **Topics Covered:**
  - Team-based cloud simulation mini-project
  - Simulation of a realistic cloud workload (e.g., E-commerce app, Video streaming service)
  - Presentation and review of simulation outcomes
  - Feedback and future opportunities
- **Hands-on:**
  - Complete and demonstrate a full simulation project
  - Report generation and analysis



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## Evaluation Pattern

Component	Weightage (%)
Daily Lab Assignments & Simulations	30%
Mid-SDP Quiz (Day 3)	15%
Final Capstone Project (Simulation + Presentation)	40%
Interaction, Participation & Teamwork	15%
<b>Total</b>	<b>100%</b>



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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program

**Title: Cloud Computing & DevOps**

**Dates:** 25th March 2023

**Duration:** 1 Week (36 Hours)

**Department:** CSE / CSIT

**Target Students:** 3rd & 4th Year (CSE, CSIT)

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### Program Objective

The program **introduces** students to the fundamental concepts and hands-on practices in Cloud Computing and DevOps. It **focuses on building** proficiency in deploying, scaling, and managing applications using modern cloud platforms and DevOps tools.

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### Course Module

Day	Topic	Details
Day 1	Introduction to Cloud Computing	Cloud models, deployment types, service models (IaaS, PaaS, SaaS)
Day 2	AWS Core Services	EC2, S3, IAM, Elastic Load Balancer basics
Day 3	Introduction to DevOps	CI/CD concepts, Agile & DevOps culture
Day 4	Git & Version Control	Git basics, branching, GitHub, team collaboration
Day 5	CI/CD Pipeline with Jenkins	Job creation, automation scripts, testing pipelines
Day 6	Docker & Containerization	Docker basics, images, containers, Docker Hub
Day 7	Capstone Activity	Build a CI/CD-enabled project using AWS & DevOps tools

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## Evaluation Pattern

Component	Details	Weight
Hands-on Lab Tasks	Daily practicals and real-time problem solving	30%
Quiz & Concept Checks	Evaluating understanding of core cloud and DevOps principles	20%
Final Project	Complete deployment pipeline with containerization	40%
Peer Feedback & Review	Review of collaboration and project delivery	10%
<b>Total</b>		<b>100%</b>

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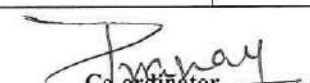
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Date: 17th to 22nd April, 2023

## SDP on VLSI Design and FPGA Attendance Sheet

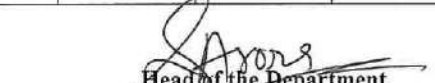
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ALVEERA HAFEEZ	16541	ECE	Att	Att	Att	Att	Att	Att
2	KISHOR KUMAR	16542	ECE	Kish	Kish	Kish	Kish	Kish	Kish
3	CHANDRANSHU SINGH	16544	ECE	Chh	Chh	Chh	Chh	Chh	Chh
4	HARISHANKAR TIWARI	16546	ECE	Harish	Harish	Harish	Harish	Harish	Harish
5	MUNENDAR	16547	ECE	Mun	Mun	Mun	Mun	Mun	Mun
6	MOHIT UPADHYAYA	16548	ECE	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit
7	NIKHIL SHARMA	16549	ECE	Nikh	Nikh	Nikh	Nikh	Nikh	Nikh
8	NIKHIL SHRIVASTAV	16551	ECE	Nikh	Nikh	Nikh	Nikh	Nikh	Nikh
9	NIRVIT GOHIL	16550	ECE	Nirvit	Nirvit	Nirvit	Nirvit	Nirvit	Nirvit
10	PARAM MISHRA	16553	ECE	Param	Param	Param	Param	Param	Param
11	POOJA PANWAR	16555	ECE	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
12	RAHUL SAHU	16556	ECE	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
13	SAPTARSI PAL	16557	ECE	Saptarsi	Saptarsi	Saptarsi	Saptarsi	Saptarsi	Saptarsi
14	VED PRAKASH	16558	ECE	Ved	Ved	Ved	Ved	Ved	Ved
15	VISHAL TIWARI	16559	ECE	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
16	PARAS BHATT	16560	ECE	Paras	Paras	Paras	Paras	Paras	Paras
17	SHAGIL KHAN	16562	ECE	Shagil	Shagil	Shagil	Shagil	Shagil	Shagil
18	MUSKAN KHEMKA	16563	ECE	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan
19	PRADEEP SINGH BISHT	16564	ECE	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
20	SWATI RAI	16566	ECE	Swati	Swati	Swati	Swati	Swati	Swati
21	SAURAV KUMAR	16567	ECE	Saurav	Saurav	Saurav	Saurav	Saurav	Saurav
22	SHUBHAM SHEKHAR	16568	ECE	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
23	SIJOY FARNANDIZ	16570	ECE	Sijo	Sijo	Sijo	Sijo	Sijo	Sijo
24	VISHAL	16572	ECE	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
25	VANDANA	16574	ECE	Vandana	Vandana	Vandana	Vandana	Vandana	Vandana

  
Co-ordinator  
Dr. Pranay Bhadauriya



Director

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Head of the Department  
Dr. Sanghamitra V. Arora

Director

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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. MOHIT UPADHYAYA of ECE Dept. (2nd Year)**

*has successfully completed six days*

***Student Development Program on “ VLSI Design and FPGA ”  
from 17<sup>th</sup> to 22<sup>th</sup> April, 2023.***



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** VANDANA **of** ECE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “ VLSI Design and FPGA ”  
from 17<sup>th</sup> to 22<sup>th</sup> April, 2023.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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## **Course Module and Evaluation Pattern for the Certificate Program on VLSI Design and FPGA from 17th–22nd April 2023 (36 Hours):**

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### **Course Module: VLSI Design and FPGA**

**Total Duration:** 36 Hours (6 Days)

**Target Audience:** ECE Dept. Students

#### **Day 1: Introduction to VLSI Design**

- VLSI Design Flow
- CMOS Technology Basics
- Moore's Law and Scaling Trends
- HDL Overview (Verilog/VHDL)

#### **Day 2: Digital Logic Design using Verilog**

- Combinational and Sequential Circuits
- Behavioral, Dataflow & Structural Modeling
- Simulation & Testbenches
- FSM (Finite State Machine) Design

#### **Day 3: FPGA Architecture & Design Tools**

- Introduction to FPGA Architecture (Xilinx/Intel)
- Toolchains (Vivado/Quartus Prime)
- Synthesis, Implementation, and Bitstream Generation

#### **Day 4: Hands-on: FPGA Programming**

- Lab: Basic Logic Gates & Flip Flops
- Counters, Shift Registers
- Resource Utilization and Timing Analysis

#### **Day 5: Advanced Topics & Real-world Applications**

- Low Power Design Techniques
- Timing Closure, Constraints & Clocking
- Applications in Signal Processing, IoT, Automotive, etc.



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## **Day 6: Mini Project & Evaluation**

- Project: Design and Implementation of a VLSI Subsystem (e.g., ALU, Traffic Light Controller)
- Presentation & Demo
- Feedback and Q&A Session



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## Evaluation Pattern

Component	Weightage	Details
Daily Lab		
Performance	20%	Hands-on work, completion of lab tasks, and tool usage
Assignments	15%	Short design exercises on Verilog/FPGA concepts
Mini Project	30%	Functional design, simulation, synthesis, and implementation
Viva/Oral Evaluation	15%	Understanding of design principles, debugging, and synthesis flow
Final Quiz/Test	20%	MCQ/Short-answer questions on theory, tools, and architecture concepts



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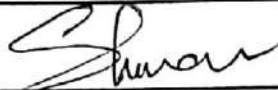
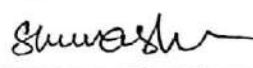

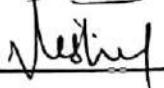
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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 17th -22nd April 2023


### Certificate Program on Material Science and Metallurgy

### Students Enrollment Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AJAY KUMAR	16601	EEE	Ajay
2	SOMYA SINHA	16603	EEE	Somya
3	GURLEEN KAUR GAUBHRI	16605	EEE	Gurleen
4	GAURAV KUMAR	16606	EEE	Gaurav
5	RACHIT SINGH NEGI	16607	EEE	Rachit
6	UJJWAL KUMAR	16608	EEE	Ujjwal
7	SUDHANSHU BHARTI	16609	EEE	Sudhanshu
8	SAKSHI KAUSHIK	16610	EEE	Sakshi
9	VIKASH PATEL	16612	EEE	Vikash
10	DEEPAK KUMAR	16613	EEE	Deepak
11	TARUN KUMAR	16615	EEE	Tarun
12	VIVEK ANAND	16617	EEE	Vivek
13	PIYUSH CHOUDHARY	16618	EEE	Piyush
14	NAMAN JAIN	16622	EEE	Naman
15	CHARU NAITHANI	16624	EEE	Charu
16	SONU KUMAR	16626	EEE	Sonu
17	SOURAV BANERJEE	16630	EEE	Sourav
18	SHUBHAM	16631	EEE	Shubham
19	SHIVAM MISHRA	16632	EEE	Shivam

20	SHIVAM PAL	16633	EEE	
21	SHIVANSHU SINGH	16634	EEE	
22	VICKY KUMAR	16635	EEE	
23	VISHAL	16636	EEE	

  
**Co-ordinator**  
**Dr. Hari Mohan Rai**

  
**Head of the Department**  
**Dr. Sanghamitra V. Arora**

  
**Director**  
**Dronacharya Group of Institutions**  
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**Student Development Program**

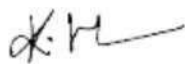
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.**           AJAY KUMAR           **of** EEE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “ Material Science and Metallurgy ”  
from 17<sup>th</sup> to 22<sup>th</sup> April, 2023.*



**Prof. Kaustubh Kr. Shukla**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Student Development Program**

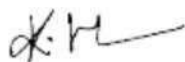
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** GAURAV KUMAR **of** EEE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “ Material Science and Metallurgy ”  
from 17<sup>th</sup> to 22<sup>th</sup> April, 2023.*



**Prof. Kaustubh Kr. Shukla**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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**Course Module and Evaluation Pattern for the Certificate Program on Material Science and Metallurgy from 17th–22nd April 2023 (36 Hours):**

**Target Audience: 2nd Year students, EEE Department**

### **Day 1: Introduction to Material Science**

- Classification of Materials (Metals, Ceramics, Polymers, Composites)
- Atomic Structure and Bonding in Solids
- Crystalline vs Amorphous Materials

### **Day 2: Crystal Structures and Defects**

- Unit Cells, Lattice Structures (BCC, FCC, HCP)
- Miller Indices and Planes
- Point, Line, and Surface Defects

### **Day 3: Mechanical Properties of Materials**

- Stress-Strain Behavior
- Elasticity, Plasticity, Toughness, Hardness
- Fatigue and Creep

### **Day 4: Phase Diagrams and Heat Treatment**

- Phase Rule and Phase Diagrams (Binary Alloys)
- Iron-Carbon Diagram
- Heat Treatment Processes (Annealing, Quenching, Tempering)

### **Day 5: Metallurgical Techniques**

- Metallography and Microstructure Analysis
- Non-Destructive Testing (NDT)
- Corrosion and Prevention

### **Day 6: Applications and Industry Relevance**

- Materials Selection for Electrical Applications
- Case Studies: Power Equipment, Conductors, Transformer Cores
- Quiz, Lab Demo / Virtual Lab, and Course Wrap-up



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## Evaluation Pattern

Assessment Criteria	Weightage	Details
Daily Class Participation	10%	Interaction, attentiveness, and responsiveness
Lab/Demo Assignments	25%	Metallography/NDT analysis or simulation tasks
Theory Quiz	20%	Concepts of atomic structures, mechanical properties, phase diagrams
Mini Case Study/Report	25%	Application-based material analysis report
Final Viva/Presentation	20%	Oral evaluation and understanding of course concepts



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### Certificate Program on Internet of Things (IoT) & Smart Device Development

**Dates:** 9th – 14th January 2023

**Department:** Electronics and Communication Engineering (ECE)

**Duration:** 36 Hours

**Target Students:** 3rd & 4th Year ECE

#### Program Objective

This certificate program **equips** students with knowledge and skills in the design and development of IoT-based smart devices. It **focuses on** practical exposure to sensors, microcontrollers, wireless communication, and cloud integration to enable students to build IoT applications.

#### Course Module

Day	Module	Details
Day 1	Fundamentals of IoT	IoT architecture, communication models, protocols
Day 2	Microcontrollers & Sensors	Arduino/Raspberry Pi basics, interfacing sensors and actuators
Day 3	Wireless Communication	Wi-Fi, Bluetooth, and MQTT protocols
Day 4	Data Handling & Cloud Integration	Real-time data acquisition, ThingSpeak, Firebase
Day 5	IoT Device Programming	Programming workflows, API integration, edge computing basics
Day 6	Capstone Project	Team-based IoT prototype development with live demo

#### Outcomes

After completing this program, students:

- **Understand** IoT architecture and its practical components
- **Interface** sensors and microcontrollers for data acquisition
- **Deploy** IoT devices that communicate with cloud platforms
- **Design and demonstrate** a smart device prototype as a team project



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## Evaluation Pattern

Assessment Component	Weightage
Daily Hands-on Lab Work	30%
Concept Quizzes	20%
Final IoT Prototype Project	40%
Peer Assessment & Teamwork	10%
<b>Total</b>	<b>100%</b>



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# DRONACHARYA Group of Institutions

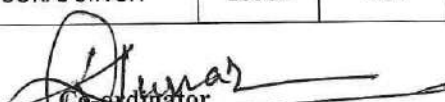
B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
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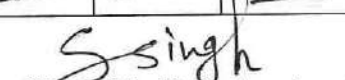
Certificate Program on Robotic Process Automation (RPA)


DATE: 13th-18th February 2023

## Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ROHAN SHARMA	16662	ME	<i>RS</i>	<i>RS</i>	<i>RS</i>	<i>RS</i>	<i>RS</i>	<i>RS</i>
2	NAVNEET PANDEY	16666	ME	<i>Navneet</i>	<i>Navneet</i>	<i>Navneet</i>	<i>Navneet</i>	<i>Navneet</i>	<i>Navneet</i>
3	BABLU KUMAR DAS	16669	ME	<i>B.Das</i>	<i>B.Das</i>	<i>B.Das</i>	<i>B.Das</i>	<i>B.Das</i>	<i>B.Das</i>
4	ADARSH KUMAR	16672	ME	<i>Adar</i>	<i>Adar</i>	<i>Adar</i>	<i>Adar</i>	<i>Adar</i>	<i>Adar</i>
5	ADARSH KUMAR	16674	ME	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>
6	AMAN	16677	ME	<i>Aman</i>	<i>Aman</i>	<i>Aman</i>	<i>Aman</i>	<i>Aman</i>	<i>Aman</i>
7	ANAND KUMAR	16680	ME	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>
8	ANKIT	16683	ME	<i>Ankit</i>	<i>Ankit</i>	<i>Ankit</i>	<i>Ankit</i>	<i>Ankit</i>	<i>Ankit</i>
9	DEEPAK KUMAR	16687	ME	<i>Deepak</i>	<i>Deepak</i>	<i>Deepak</i>	<i>Deepak</i>	<i>Deepak</i>	<i>Deepak</i>
10	SAGAR KUMAR	16690	ME	<i>Sagar</i>	<i>Sagar</i>	<i>Sagar</i>	<i>Sagar</i>	<i>Sagar</i>	<i>Sagar</i>
11	SHIVAM MAURYA	16693	ME	<i>Sh</i>	<i>Sh</i>	<i>Sh</i>	<i>Sh</i>	<i>Sh</i>	<i>Sh</i>
12	SURAJ SINGH	16952	ME	<i>SS</i>	<i>SS</i>	<i>SS</i>	<i>SS</i>	<i>SS</i>	<i>SS</i>

  
Coordinator  
Mr. Deepak Kumar

  
Head of the Department  
Dr. Shailesh Kumar Singh

  
Director  
Dronacharya Group of Institutions  
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Dronacharya Group of Institutions  
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ROHAN SHARMA **of** ME Dept. (2nd Year)

*has successfully completed six days*

***Student Development Program on “ Robotic Process Automation (RPA) ”  
from 13<sup>th</sup> to 18<sup>th</sup> February, 2023.***



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**



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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** SAGAR KUMAR **of** ME Dept. (2nd Year)

*has successfully completed six days*

**Student Development Program on “ Robotic Process Automation (RPA) ”**  
*from 13<sup>th</sup> to 18<sup>th</sup> February, 2023.*



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**  
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## **Certificate Program on Robotic Process Automation (RPA)**

**Target Group:** 2nd Year Mechanical Engineering

**Duration:** 30 Hours (6 Days)

**Date:** 13th – 18th February 2023

### **Course Curriculum Structure**

<b>Day</b>	<b>Topics Covered</b>	<b>Delivery Mode</b>
<b>Day 1</b>	Introduction to RPA: Concepts, Benefits, and Industry Use Cases	Lecture & Demo
<b>Day 2</b>	RPA Tools Overview: UiPath, Blue Prism, Automation Anywhere	Hands-on Lab
<b>Day 3</b>	UiPath Studio: Workflow Designer, Variables, Data Types, Sequences & Flowcharts	Guided Practice
<b>Day 4</b>	Control Flow: Decisions, Loops, Switch, Try-Catch, and Exception Handling	Practical Exercises
<b>Day 5</b>	Web Automation & Desktop Automation (Selectors, Recording, Data Scraping)	Live Project
<b>Day 6</b>	Capstone Project: Automating a Simple Business Process (e.g., Invoice Processing)	Team Project & Presentations

### **Learning Outcomes**

By the end of the course, students will be able to:

- Understand RPA architecture and real-world relevance
- Create simple automation workflows using UiPath
- Apply control structures and manage exceptions in workflows
- Collaborate and deliver a small-scale RPA solution



Director

## Assessment Rubric (Skill-Based Format)

Assessment Category	Criteria	Max Marks
<b>Tool Proficiency</b>	Ability to use UiPath interface & basic elements	20
<b>Workflow Logic</b>	Efficiency and accuracy in logic implementation	20
<b>Problem-Solving</b>	Handling exceptions, loops, real-time scenarios	20
<b>Team Collaboration</b>	Group project participation and peer inputs	15
<b>Presentation &amp; Reporting</b>	Clear demo, explanation, and documentation	15
<b>Quiz/Knowledge Check</b>	Core RPA concepts and use-case MCQs	10
<b>Total</b>		<b>100</b>

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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Certificate Program on Business Continuity and Disaster recovery planning and Cryptography				DATE: 11th -16th December 2022
Students Enrollment Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ANNIE JAIN	16721	MBA	Annie
2	HARSHIT CHAUBEY	16728	MBA	Harshit
3	KOMAL REXWAL	16741	MBA	Komal
4	MITALI YADAV	16730	MBA	Mitali
5	NISHANT CHAUHAN	16731	MBA	Nishant
6	PRIYA	16750	MBA	Priya
7	RISHIKA RAZDAN	16734	MBA	Rishika
8	SONIKA DAYAL	16740	MBA	Sonika
9	UJJWAL SAXENA	16743	MBA	Ujjwal
10	MAHIMA	16744	MBA	Mahima
11	MANISHA	16746	MBA	Manisha
12	MANISHA KUMARI	16736	MBA	Manisha
13	MANSHI	16748	MBA	Manshi
14	MANSI	16749	MBA	Mansi
15	MANTASHA	16722	MBA	Mantasha
16	MEENAKSHI SINGH	16752	MBA	Meenakshi
17	MEGHA VERMA	16753	MBA	Megha
18	MOHINI	16755	MBA	Mohini

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19	MONIKA	16757	MBA	Monika
20	KUNAL BISHT	16758	MBA	Kunal
21	MUSKAN	16760	MBA	Muskan
22	ADITYA KUMAR	16761	MBA	Aditya
23	AKASH KUMAR	16762	MBA	Akash
24	AMAN SHARMA	16764	MBA	Aman
25	LAKSHAY GUPTA	16765	MBA	Lakshay
26	HRITIK TIWARI	16767	MBA	Hritik
27	KARTIK SHUKLA	16769	MBA	Kartik
28	PREETI PAL	16770	MBA	Preeti

*Sarita*

**Co-ordinator**  
**Ms. Sarita Tiwari**

*Pareek*

**Head of the Department**  
**Dr. Vandana Pareek**

*Director*

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** MAHIMA ***of*** MBA Dept. (2nd Year)

***has successfully completed six days Student Development  
Program on “ Business Continuity and Disaster  
Recovery Planning and Cryptography”  
from 11<sup>th</sup> to 16<sup>th</sup> December, 2022.***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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## **Business Continuity, Disaster Recovery Planning & Cryptography**

**Target Group:** 2nd Year MBA Students

**Duration:** 36 Hours (6 Days)

**Dates:** 11th – 16th December 2022

**Department:** MBA

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### **Course Content Breakdown**

<b>Day</b>	<b>Module</b>	<b>Methodology</b>
<b>Day 1</b>	Fundamentals of Business Continuity & Disaster Recovery (BC/DR)	Lecture + Case Study
<b>Day 2</b>	Risk Management, Business Impact Analysis, and BCM Lifecycle	Group Activity + Discussion
<b>Day 3</b>	DR Planning: IT Infrastructure, Cloud, and Cybersecurity Concerns	Hands-on Scenario Mapping
<b>Day 4</b>	Introduction to Cryptography: Concepts, Applications in Business	Lecture + Demo
<b>Day 5</b>	Symmetric & Asymmetric Encryption, Hashing, and Digital Signatures	Practical Lab Sessions
<b>Day 6</b>	BCP Simulation & Cryptography Use Case Presentations	Team Simulation + Quiz

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### **Learning Objectives**

By the end of this program, students will be able to:

- Identify organizational risks and develop business continuity strategies
- Understand disaster recovery planning frameworks and incident response
- Apply cryptographic tools for securing data and communication
- Integrate BCP and cryptography for enterprise resilience

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## Evaluation Criteria & Weightage

Component	Description	Weight
<b>Class Engagement</b>	Questions, discussion participation	10%
<b>Business Impact Analysis Task</b>	Group assignment with scenario-based planning	20%
<b>Cryptography Lab Work</b>	Hands-on with encryption tools (e.g., AES, RSA)	25%
<b>BCP Simulation</b>	End-to-end plan creation and mock drill execution	25%
<b>Final Quiz</b>	20 MCQs on BCP, DRP, and cryptography fundamentals	20%
<b>Total</b>		<b>100%</b>



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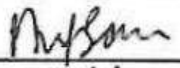
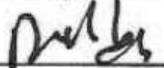
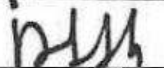
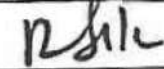
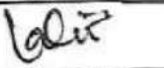
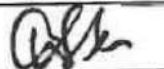
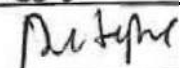
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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Certificate Program on Sustainability and ESG Training				DATE: 06th-11th February 2023
Students Enrollment Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ANNIE JAIN	16721	MBA	Annie
2	DEEPANSHU KUMAR	16724	MBA	Deep
3	HARSHIT VATS	16729	MBA	Harshit
4	KANIKA CHAWLA	16742	MBA	Mitali
5	MITALI YADAV	16730	MBA	Mitali
6	PAYAL	16747	MBA	Payal
7	RAHUL KASHYAP	16733	MBA	Rahul
8	SHABNAM	16738	MBA	Shabnam
9	SONIKA DAYAL	16740	MBA	Sonika
10	MAHIMA GUPTA	16745	MBA	Mahima
11	MANISHA	16746	MBA	Manisha
12	MANSHI	16748	MBA	Mansi
13	MANTASHA	16722	MBA	Mantasha
14	HARI SINGH	16751	MBA	Hari
15	MEENAKSHI SINGH	16752	MBA	Meenakshi
16	MEHAK	16754	MBA	Mehak
17	MOHINI	16756	MBA	Mohini
18	MONIKA	16757	MBA	Monika
19	KUNAL BISHT	16758	MBA	Kunal

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20	MUSKAN	16759	MBA	
21	ADITYA KUMAR	16761	MBA	
22	AKASH KUMAR	16762	MBA	
23	ALOK KUMAR	16763	MBA	
24	LALIT SINGH	16766	MBA	
25	ISHAN KOHLI	16768	MBA	
26	PREETI PAL	16770	MBA	

  
**Co-ordinator**  
**Dr. Sahab Singh**

  
**Head of the Department**  
**Dr. Vandana Pareek**

  
 Director  
**Dronacharya Group of Institutions**  
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## **Certificate Program on Sustainability and ESG (Environmental, Social, and Governance) Training**

**Department: MBA**

**Duration: 06th – 11th February 2023**

**Total Hours: 30 Hours**

### **Course Module**

<b>Module</b>	<b>Topic</b>
Module 1	Introduction to Sustainability and ESG Concepts
Module 2	ESG Frameworks & Reporting Standards (GRI, SASB, TCFD)
Module 3	Stakeholder Engagement & Materiality Assessment
Module 4	Corporate Governance & Ethical Decision Making
Module 5	Environmental Risk Assessment and Climate Strategies
Module 6	Social Responsibility and Impact Investing
Module 7	ESG Integration in Business Strategy and Case Studies

A handwritten signature in blue ink, appearing to read 'A. P. J.', is placed above the official title of the Director.

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## Evaluation Matrix

Component	Weightage
Attendance & Class Interaction	10%
Case Study Analysis & Presentation	30%
Assignment / ESG Reporting Practice	30%
Final Assessment (Quiz/Reflection Report)	30%



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### **Certificate Program on Software Testing & Quality Assurance**

**Organizer: CSE Dept.**

**Target Students: CSE, CSIT, IT Depts.**

**Dates: 18th -23rd July 2022**

#### **Course Module:**

<b>Module</b>	<b>Topic</b>
Module 1	Fundamentals of Software Testing & QA
Module 2	Types of Testing – Unit, Integration, System, Acceptance
Module 3	Test Case Design Techniques & Automation Tools Overview
Module 4	Manual Testing Tools (e.g., Bugzilla, Mantis)
Module 5	Introduction to Automation with Selenium
Module 6	Test Plan Documentation and Defect Lifecycle
Module 7	Industry Best Practices and Case Studies



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**Evaluation Matrix:**

<b>Component</b>	<b>Weightage</b>
Attendance & Participation	10%
Assignments / Lab Exercises	30%
Mini Project / Case Study	30%
Final Assessment / Quiz	30%



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**SDP on Advanced Data Structures & Algorithms (DSA) for Competitive Programming**

**Dates: 22nd-27th August 2022 for CSE, IT, CSIT Depts.**

**Course Module:**

<b>Module</b>	<b>Topic</b>
Module 1	Complexity Analysis & Recursion
Module 2	Arrays, Strings, Linked Lists
Module 3	Stacks, Queues, Priority Queues
Module 4	Trees, Binary Search Trees, Heaps
Module 5	Graphs – BFS, DFS, Dijkstra's, Union-Find
Module 6	Dynamic Programming & Backtracking
Module 7	Problem-solving Sessions on Platforms like Leetcode/Codeforces





**Evaluation Matrix:**

<b>Component</b>	<b>Weightage</b>
Problem Solving Assignments	40%
Participation & Engagement	10%
Coding Challenge / Hackathon	30%
Final Quiz / Viva	20%



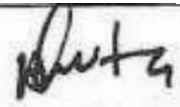
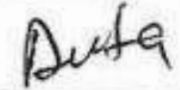
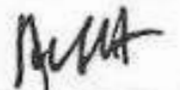
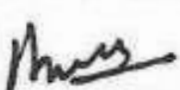
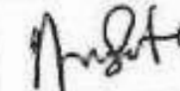
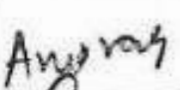
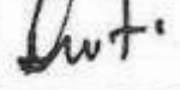
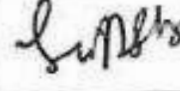

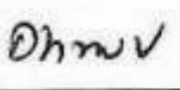
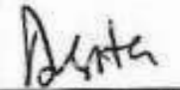

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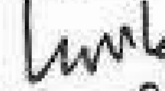
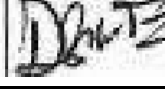
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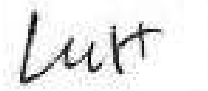
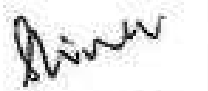




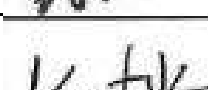


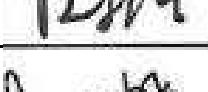
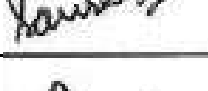

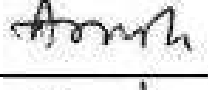
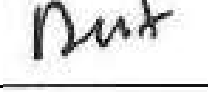
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 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 03rd-8th October 2022		Topic: SDP on Agile and Scrum Methodology		
Students Enrollment Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AAVRITI GUPTA	16002	CSE	
2	ADITYA TIWARI	16013	CSE	
3	AKSHAT PANDEY	16019	CSE	
4	AMAN HALDAR	16022	CSE	
5	AMAN SATYAWANI	16026	CSE	
6	ANURAG	16031	CSE	
7	AAKASH KUMAR GUPTA	16047	CSE	
8	SHIVENDRA MISHRA	16053	CSE	
9	AYUSH ABHAY	16054	CSE	
10	DHRUV VASHISHT	16066	CSE	
11	DIKSHA VAID	16067	CSE	
12	DRISHTI JAIN	16069	CSE	

Director  
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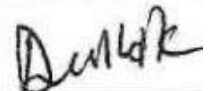



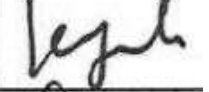

13	MOHD AFTAB	16109	CSE	
14	NISHA KUMARI	16115	CSE	
15	NAYAN PORWAL	16117	CSE	
16	SAKSHI SHARMA	16152	CSE	
17	SACHIN MAHTO	16153	CSE	
18	SIMON SINGHAL	16170	CSE	
19	VINAYAK KOCHHAR	16197	CSE	
20	PRALABDH SHARMA	16805	CSE	
21	ADITI BAIS	16807	CSE	
22	MD. FAISAL	16811	CSE	
23	ADITYA JANGID	16275	CSIT	
24	ADITYA TIWARI	16277	CSIT	
25	ANKIT SAHOO	16286	CSIT	
26	ABHINAV TIWARI	16288	CSIT	
27	DEEPANSHI	16292	CSIT	
28	SUMIT SINHA	16295	CSIT	
29	MIDHVANA RISHI	16307	CSIT	

  
Director

30	PREETI YADAV	16313	CSIT	
31	PRADEEP	16316	CSIT	
32	RASHMITA BISWAS	16319	CSIT	
33	UDIT RAJ	16321	CSIT	
34	SHIVAM GUPTA	16330	CSIT	
35	SHUDHANSHU RANJAN DWIVEDI	16332	CSIT	
36	VISHAL SHRESTHA	16339	CSIT	
37	BINIT KUMAR	16826	CSIT	
38	ASHIR REHMAN	16211	IT	
39	KARTIK TYAGI	16221	IT	
40	NASEEM	16226	IT	
41	RISHABH DUTT	16229	IT	
42	SAURABH YADAV	16234	IT	
43	ANUJ NEGI	16352	AIML	
44	ARUSH TAANK	16355	AIML	
45	ARCHIT PANDEY	16358	AIML	
46	KESHAV KUMAR AGGARWAL	16369	AIML	

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47	DEEPAK KUMAR	16374	AIML	
48	MRIDUL PANDEY	16388	AIML	
49	RISHI GUPTA	16392	AIML	
50	RAJAT SINGH	16402	AIML	
51	KAJAL TIWARI	16404	AIML	
52	ROHAN SINGH	16855	AIML	



**Co-ordinator**

**Mr. Shantanu Pant**



**Head of the Department**

**Dr. Bipin Pandey**



Director

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306





## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. NISHA KUMARI** of **CSE Dept. (2nd Year)** *has successfully completed six days Student Development Program on “Agile and Scrum Methodology” from 3<sup>rd</sup> - 8<sup>th</sup> October 2022.*

  
**Prof Shantanu Pant.**  
Co-ordinator

  
**Prof. Bipin Pandey**  
HOD

  
Director

Dronacharya Group of Institutions

27, KP-III, Greater Noida-201306

**Prof. (Dr.) Arpita Gupta**  
Director



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. AYUSH ABHAY** of **CSE Dept. (2nd Year)** *has successfully*  
*completed six days Student Development Program on*  
*“Agile and Scrum Methodology” from 3<sup>rd</sup> - 8<sup>th</sup> October 2022.*

  
**Prof Shantanu Pant.**  
Co-ordinator

  
**Prof. Bipin Pandey**  
HOD

  
**Prof. (Dr.) Arpita Gupta**  
Director

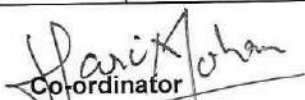


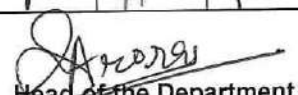
Director

# DRONACHARYA Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

TOPIC: Certificate Program on Communication Systems and Modulation Techniques							DATE: 10th-15th October 2022		
Attendance Sheet									
S.NO	Name of the Students	University Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AFAQUE WASIM	2002300210001	EEE	A	A	A	A	A	A
2	APOORVA KUMAR	2002300219001	EEE	P	P	P	P	P	P
3	KUNDAN KUMAR SINGH	2002300219002	EEE	P	P	P	P	P	P
4	NEHA AGARWAL	2002300210072	EEE	P	A	P	P	P	P
5	PRIYA AGARWAL	2002300219137	EEE	P	P	P	P	P	P
6	KAVITA KUMAR	2002300213862	EEE	A	A	A	A	A	A
7	ANKITA VALMIKI	2002300218436	EEE	P	P	P	A	P	P
8	POOJA VERMA	2002300217909	EEE	A	A	A	A	A	A
9	ANKITA SINGH	2002300219003	EEE	P	P	P	P	P	P
10	POOJA SAGAR	2002300210326	EEE	P	P	P	P	P	P
11	PRIYA SINGH	2002300219004	EEE	P	P	A	P	P	P
12	RAVI VALMIKI	2002300217570	EEE	A	A	A	A	A	A
13	SHEWTA SHARMA	2002300219010	EEE	P	P	P	P	P	P
14	ANITA CHAUDHARY	2002300216822	EEE	P	P	P	P	P	P
15	ANITA VALMIKI	2002300219189	EEE	P	A	P	P	P	P
16	RAHUL GUPTA	2002300217503	EEE	P	P	P	P	P	P
17	ANKITA CHAUDHARY	2002300213752	EEE	P	P	P	P	P	P
18	POOJA GUPTA	2002300214806	EEE	A	A	A	A	A	A
19	POOJA SINGH	2002300219009	EEE	P	P	P	P	P	P
20	RAMAN CHAUDHARY	2002300210202	EEE	A	A	A	A	A	A
21	AYUSH SHUBHAM	2102300219001	EEE	P	P	P	P	P	P
22	SUMIT PANDEY	2102300218001	EEE	P	P	P	P	P	P
23	NEHA KUMARI	2102300219002	EEE	A	A	A	A	A	A
24	NISHANT KUMAR	2102300219003	EEE	A	A	A	A	A	A
25	SHANAYA SINHA	2102300219004	EEE	P	P	P	A	P	P

  
Co-ordinator  
Dr. HARI MOHAN RAI

  
Head of the Department  
Dr. SANGHAMITRA V.

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** KUNDAN KUMAR SINGH **of** EEE Dept. (3rd Year)  
*has successfully completed six days Student Development  
Program on “Communication Systems and Modulation Techniques”  
from 10<sup>th</sup>-15<sup>th</sup> October 2022.*



**Prof. Sanghamitra V Arora**  
HoD



**Prof. (Dr.) Arpita Gupta**  
Director



**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** RAHUL GUPTA **of** EEE Dept. (3rd Year)  
*has successfully completed six days Student Development  
Program on “Communication Systems and Modulation Techniques”  
from 10<sup>th</sup>-15<sup>th</sup> October 2022.*



**Prof. Sanghamitra V Arora**  
HoD



**Prof. (Dr.) Arpita Gupta**  
Director





## **Certificate Program on Communication Systems and Modulation Techniques**

**Target Audience:** 3rd Year – Electronics & Communication Engineering

**Duration:** 30 Hours

**Schedule:** 10th – 15th October 2022

**Organized by:** Department of ECE

### **Course Module**

<b>Day</b>	<b>Topic</b>	<b>Mode</b>	<b>Hours</b>
Day 1	Fundamentals of Analog & Digital Communication	Lecture + Q&A	5
Day 2	Amplitude Modulation (AM), Frequency Modulation (FM)	Lecture + Simulation	5
Day 3	Phase Modulation (PM), Pulse Code Modulation (PCM)	Hands-on (MATLAB/Lab)	5
Day 4	Signal-to-Noise Ratio (SNR), Channel Capacity, Shannon's Theorem	Lecture + Examples	5
Day 5	Digital Modulation Techniques (ASK, FSK, PSK)	Simulation Lab	5
Day 6	Project Work: Design & Analysis of Modulation System	Group Project + Review	5



## Evaluation & Certification Criteria

Component	Description	Marks
Attendance & Participation	Full session involvement	10
Quiz on Communication Concepts	Based on theoretical modules (Day 1–4)	20
Simulation Lab Evaluation	Individual task-based assessment (MATLAB/Scilab/Tools)	20
Mini Project (Day 6)	Group-based with design, simulation & viva	40
Presentation & Report	Clarity, innovation, communication	10
Total		100

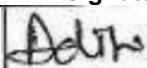
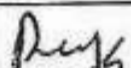
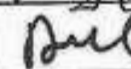

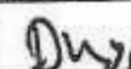
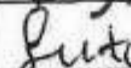
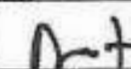
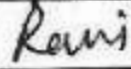

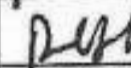
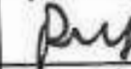
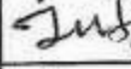
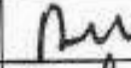
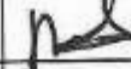
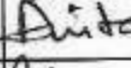
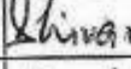
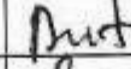
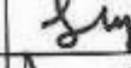
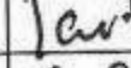
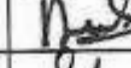

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Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

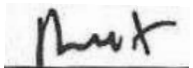
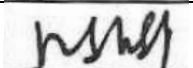
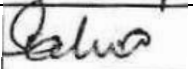
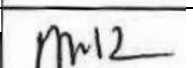
# DRONACHARYA Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

TOPIC: Certicate Program on Electric Vehicles and Smart Systems			DATE: 18th -23rd July 2022		
Students Enrollment Sheet					
S.NO	Name of the Students	University Roll No.	Dept.	Signature	
1	ADITI GUPTA	2002300310001	ECE		
2	POOJA VALMIKI	2002300314764	ECE		
3	ANIL SINGH	2002300315689	ECE		
4	ROHIT VALMIKI	2002300631624	ECE		
5	DIYA THAKUR	2002300315003	ECE		
6	SWATI SHARMA	2002300310066	ECE		
7	ANITA AGARWAL	2002300314231	ECE		
8	RAVI AGARWAL	2002300317032	ECE		
9	AMIT VALMIKI	2002300319399	ECE		
10	RAKESH VALMIKI	2002300310700	ECE		
11	PRIYAM KUMAR	2002300310166	ECE		
12	JYOTI MEENA	2002300311857	ECE		
13	AMIT VERMA	2002300317765	ECE		
14	ANIL AGARWAL	2002300310949	ECE		
15	ANITA BISHT	2002300313052	ECE		
16	SHIVANI JADHAV	2002300313128	ECE		
17	ANKITA GUPTA	2002300317608	ECE		
18	SHIVANI RAJPUT	2002300316972	ECE		
19	KAVITA BISHT	2002300313980	ECE		
20	AMIT KUMAR	2002300314409	ECE		
21	SHIVANI SHARMA	2002300310818	ECE		

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

22	ANKIT YADUVANSHI	2102300319001	ECE	
23	ASHUTOSH SINGH	2102300319002	ECE	
24	SAHIL KUMAR AZMAREY	2102300319007	ECE	
25	ATIK UR REHMAN	2102300319003	ECE	

  
**Co-ordinator**  
**Dr. LILY GUPTA**

  
**Head of the Department**  
**Dr. SANGHAMITRA V. ARORA**

  
**Director**  
**Dronacharya Group of Institutions**  
**27, KP-III, Greater Noida-201306**

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ADITI GUPTA **of** ECE Dept. (3rd Year)  
*has successfully completed six days Student Development  
Program on “ Electric Vehicles and Smart Systems ”  
from 18<sup>th</sup> -23<sup>rd</sup> July 2022.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director





**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ANITA BISHT **of** ECE Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “ Electric Vehicles and Smart Systems ”  
from 18<sup>th</sup> -23<sup>rd</sup> July 2022.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



## **Certificate Program**

### **Topic: Electric Vehicles and Smart Systems**

**Target Audience:** 3rd Year – Electrical & Electronics Engineering

**Duration:** 30 Hours

**Schedule:** 18th – 23rd July 2022

**Organized by:** Department of EEE

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### **Course Module**

<b>Day</b>	<b>Topic</b>	<b>Mode</b>	<b>Hours</b>
Day 1	Introduction to Electric Vehicles (EVs): Trends, Scope, and Architecture	Expert Talk + Q&A	5
Day 2	Battery Technologies: Lithium-Ion, BMS, and Charging Infrastructure	Lecture + Demo	5
Day 3	Power Electronics for EVs: Inverters, Converters, and Motor Controllers	Lecture + Lab Session	5
Day 4	Smart Grid Concepts and Integration with EV Systems	Hands-on Simulation	5
Day 5	IoT and Embedded Systems for Smart Transportation	Workshop + Demo	5
Day 6	Capstone Project: Smart EV Charging System / Embedded Monitoring Module	Project Work + Review	5



Director

## Evaluation & Assessment Rubric

Component	Description	Marks
Daily Attendance & Engagement	Interaction during lectures & workshops	10
Mid-Program Quiz	Objective-type questions on EV systems	15
Lab Work Evaluation	Practical performance in power electronics & IoT modules	20
Project Work	Group-based; includes innovation & feasibility	35
Final Presentation & Viva	Presentation of project outcomes & oral examination	20
Total		100

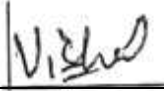
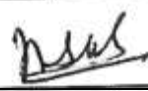

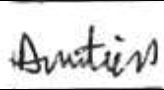
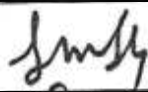

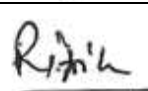
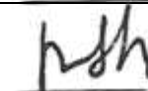
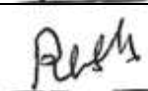

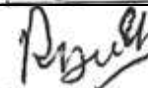


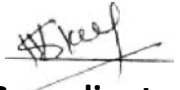
Director


Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

DATE: 14th-19th November 2022

**SDP on 3D Printing and Rapid Prototyping**  
**Students Enrollment Sheet**

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	VISHAL KUMAR GUPTA	2002300400007	ME	
2	ANUSHEEL KAUL	2002300409001	ME	
3	HARSHVARDHAN SINGH	2002300409004	ME	
4	AMITESH JADHAV	2002300403444	ME	
5	SHIVANSH VERMA	2002300400033	ME	
6	VIVEK KUMAR	2002300403917	ME	
7	RITIK GAUTAM	2002300406200	ME	
8	ANEESH RAJPUT	2002300409014	ME	
9	AJAY GUPTA	2002300408475	ME	
10	RAMESH JADHAV	2002300408483	ME	
11	PRIYAM CHAUDHARY	2002300400347	ME	

  
Co-ordinator  
Mr. VISHNU KUNTAL

  
Head of the Department  
Dr. Shailesh Kumar Singh

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** VIVEK KUMAR **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “3D Printing and Rapid Prototyping”  
from 14<sup>th</sup>-19<sup>th</sup> November 2022.*



**Dr. Shailesh Kumar Singh**  
H.O.D



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



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Group of Institutions  
Greater Noida

**Student Development Program**

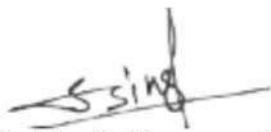
CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** AMITESH JADHAV **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “3D Printing and Rapid Prototyping”  
from 14<sup>th</sup>-19<sup>th</sup> November 2022.*



**Dr. Shailesh Kumar Singh**  
H.O.D



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
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## **Certificate Program**

### **Student Development Program (SDP) on 3D Printing and Rapid Prototyping**

**Target Group:** 3rd Year – Mechanical Engineering Students

**Duration:** 30 Hours

**Dates:** 14th – 19th November 2022

**Organized by:** Department of Mechanical Engineering

### **Program Structure**

<b>Day</b>	<b>Module</b>	<b>Delivery Mode</b>	<b>Hours</b>
Day 1	Introduction to Additive Manufacturing & 3D Printing Technologies	Lecture + Demo	5
Day 2	Types of 3D Printers and Materials (FDM, SLA, SLS, etc.)	Hands-on Display	5
Day 3	CAD Modeling for 3D Printing – Tools like Fusion 360/SolidWorks	Software Lab	5
Day 4	Slicing Software & File Preparation (Cura/PrusaSlicer, G-code basics)	Practical Workshop	5
Day 5	Rapid Prototyping in Manufacturing & Product Development	Industry Case Studies	5
Day 6	Project: Design, Slice, Print & Evaluate a Prototype	Group Project + Review	5

### ☐ **Expected Learning Outcomes**

Upon successful completion, students will be able to:

- Explain and compare 3D printing techniques and their applications
- Design basic 3D printable models using CAD tools
- Operate slicing software and prepare print-ready files
- Understand material behavior in rapid prototyping
- Create functional prototypes for engineering applications



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## Evaluation & Assessment Pattern

Criteria	Details	Marks
Attendance & Engagement	Active participation across all sessions	10
CAD Modeling Task	Model design and export readiness for printing	15
Slicing & Print File Accuracy	Correct slicing, support generation, and printer settings	15
Prototype Project	Group project: design, print, functional evaluation	40
Project Presentation	Technical explanation, innovation, and clarity	20
Total		100

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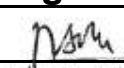
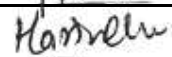

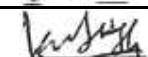
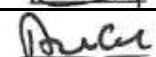
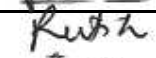
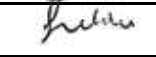



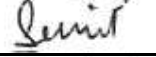
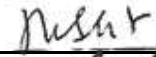

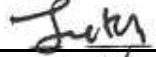

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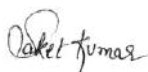
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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

TOPIC:	SDP on Structural Analysis using ANSYS		DATE: 18th -23rd July 2022	
Students Enrollment				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ASHISH KAFLE	14263	ME	
2	HARINDRA NAU	14268	ME	
3	JATIN SHARMA	14276	ME	
4	KAUSHAL JHA	14281	ME	
5	PRINCE KUMAR	14284	ME	
6	RITIK KUMAR	14290	ME	
7	SAGARMANI	14293	ME	
8	SAURAV KUMAR SINGH	14296	ME	
9	SHOURYA MISHRA	14299	ME	
10	YASH PANDEY	14300	ME	
11	SUMIT PANDEY	14277	ME	
12	NISHANT MISHRA	14279	ME	
13	NEHAAL THAKUR	14269	ME	
14	JYOTISH PANDEY	14261	ME	
15	ANUSHEEL KAUL	14846	ME	



Co-ordinator

Dr. Saket Kumar



Head of the Department

Dr. Shailesh Kumar Singh



Director

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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Structural Analysis using ANSYS

**Participants:** Final Year B.Tech – Mechanical Engineering

**Duration:** 36 Hours

**Date:** 18th – 23rd July 2022

**Venue:** CAD Lab, Mechanical Engineering Department

**Organized by:** Department of Mechanical Engineering

### Program Overview

This intensive hands-on program is designed to equip students with simulation capabilities in structural mechanics using **ANSYS Workbench**. It will focus on real-time industrial problem-solving through **Finite Element Analysis (FEA)** tools.

### Module Breakdown

Module No.	Module Title	Key Topics Covered	Hours
M1	Introduction to FEA & ANSYS Interface	Types of analysis, pre-processing, solver overview	6
M2	Geometry & Meshing Techniques	Geometry cleanup, mesh quality, refinement strategies	6
M3	Static Structural Analysis	Boundary conditions, stress-strain, deformation	6
M4	Modal & Harmonic Analysis	Natural frequencies, vibration modes	6
M5	Thermal Stress Analysis	Thermal loads, coupled field problems	6
M6	Capstone Project: Component-Level Analysis	Real-world structure simulation & result interpretation	6



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## Evaluation Methodology

Assessment was based on both conceptual clarity and software proficiency:

Assessment Type	Details	Weightage
Conceptual Quiz	Fundamentals of FEA and structural mechanics	15%
Lab Performance	Completion of module-wise tasks in ANSYS	25%
Capstone Project	Group analysis of a mechanical part/system	35%
Report & Presentation	Technical documentation and presentation	15%
Engagement & Attendance	Active participation in sessions	10%
<b>Total</b>		<b>100%</b>



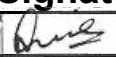
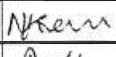
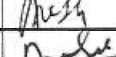
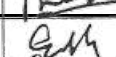
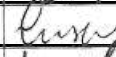
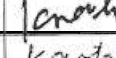
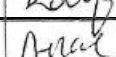
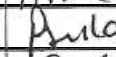
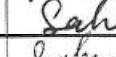
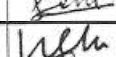
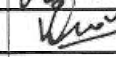
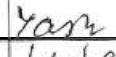
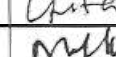
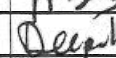
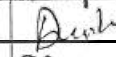
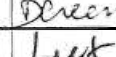
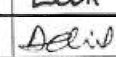
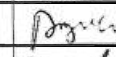
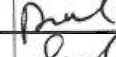
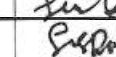
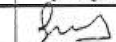
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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

TOPIC:	SDP on Transforming Education with Augmented Reality and Virtual Reality		DATE: 3rd -8th October 2022	
Students Enrollment				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ABHISHEK CHAUHAN	14157	ECE	
2	AKASH KANOJIA	14160	ECE	
3	ANKIT CHAUHAN	14163	ECE	
4	ANKUR DHAMA	14162	ECE	
5	E BALAKRISHNA	14166	ECE	
6	GAURAV KUMAR	14169	ECE	
7	KARAN KUSHWAHA	14172	ECE	
8	MD KAIF	14173	ECE	
9	MUKUL SHARMA	14176	ECE	
10	PRIYANSHU PALLAV	14164	ECE	
11	SACHIN CHAUDHARY	14165	ECE	
12	SAKSHI TRIPATHI	14179	ECE	
13	VAISHALI MEHLAWAT	14182	ECE	
14	VANSHIKA TANWAR	14184	ECE	
15	YASH SHARMA	14186	ECE	
16	YOGITA SHARMA	14168	ECE	
17	AKSHAY SINGH	14167	ECE	
18	BAL KRISHAN	14170	ECE	
19	DEEPAK KUMAR	14171	ECE	
20	DHEERAJ PANCHAL	14174	ECE	
21	LALIT KUMAR SINGH	14175	ECE	
22	MD ADIL HASIN	14177	ECE	
23	PRANAV KAUSHIK	14178	ECE	
24	RAHUL KUMAR DUBEY	14180	ECE	
25	SAHIL SINGH	14181	ECE	
26	SHIWANG BISHT	14183	ECE	
27	SURAJ KUMAR SAHU	14815	ECE	



Co-ordinator

Ms. ARPANA MISHRA



Director

Dronacharya Group of Institutions  
 27, KP-III, Greater Noida-201306



Head of the Department

Dr. SANGHAMITRA V.

ARORA

## Certificate program on Transforming Education with Augmented Reality and Virtual Reality

**Audience:** Final Year B.Tech – Electronics and Communication Engineering

**Duration:** 30 Hours

**Dates:** 3rd – 8th October 2022

**Department:** Electronics and Communication Engineering

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### Program Snapshot

This SDP aims to introduce immersive technologies such as **Augmented Reality (AR)** and **Virtual Reality (VR)** as educational transformation tools. The sessions combined theory, demos, and interactive workshops to foster innovative thinking and digital content creation.

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### Course Structure

Day	Theme	Topics / Activities	Hours
Day 1	Introduction to AR/VR in Education	Overview, Use Cases, Hardware & Software Ecosystem	5
Day 2	AR Tools & Platforms	Unity 3D, Vuforia, Spark AR, Marker-based AR design	5
Day 3	Basics of VR Content Development	3D Environments, Unity Engine, Scene Creation	5
Day 4	Interactivity in Immersive Environments	Scripting, Navigation, UX/UI elements	5
Day 5	Integration with Smart Devices & Educational Scenarios	Deployment on mobile/VR headsets, classroom use cases	5
Day 6	Mini Project: "Smart AR/VR Classroom Prototype"	Team project, demo & evaluation	5

## Evaluation & Certification Criteria

Component	Description	Weightage
Attendance & Session Involvement	Participation & interaction during demos & activities	10%
Hands-on Tool Assessment	AR/VR content creation using Unity or Spark AR	20%
Conceptual Quiz	Fundamentals of AR/VR technologies	15%
Mini Project	Prototype of an AR/VR-based educational tool	40%
Presentation & Viva	Project explanation and clarity of innovation	15%
<b>Total</b>		<b>100%</b>

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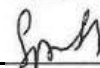
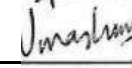
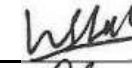
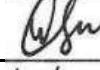
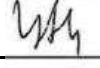
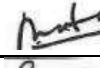
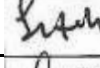
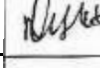
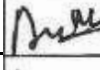
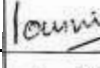
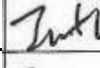
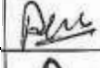
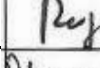
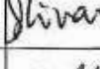
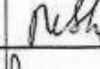
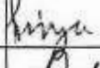
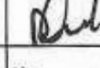
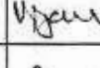
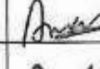
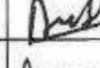
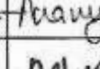
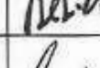
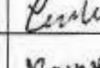
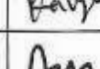
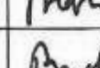
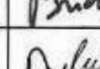
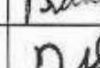

# DRONACHARYA

## Group of Institutions




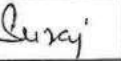
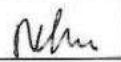
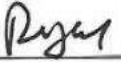
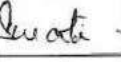
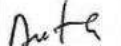
B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

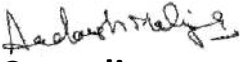
TOPIC:	SDP onDevOps and Continuous Integration/Continuous Deployment (CI/CD)		DATE: 12th-17th December 2022	
Students Enrollment				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AMAAN ZAIDI	14006	CSE	
2	ANKIT KUMAR	14013	CSE	
3	ANKIT NEGI	14014	CSE	
4	ANSITA RAMOLA	14017	CSE	
5	AVIJIT PANDA	14020	CSE	
6	BIPIN KUMAR	14025	CSE	
7	DAKSHITA VERMA	14028	CSE	
8	DEEPAK DUA	14029	CSE	
9	DIVYANSHU AGARWAL	14033	CSE	
10	GATIQ DOULTANI	14036	CSE	
11	HARSH SHARMA	14039	CSE	
12	KARAN RAJPUT	14045	CSE	
13	KULDEEP SINGH CHAUHAN	14049	CSE	
14	MOHD ZEESHAN	14053	CSE	
15	MOHD.MAIRAZ	14054	CSE	
16	NAVDEEP SINGH	14061	CSE	
17	NEERAJ SINGH BISHT	14063	CSE	
18	PRABHAV GOEL	14071	CSE	
19	PRATHAM SHARMA	14074	CSE	
20	PRIYANKA PRASAD	14076	CSE	
21	ROHIT MISHRA	14083	CSE	


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22	SNEHA AGGARWAL	14099	CSE	
23	SPARSH GOYAL	14103	CSE	
24	UMASHANKAR YADAV	14110	CSE	
25	VIBHAV KUMAR DUBEY	14115	CSE	
26	VISHAL KHANNA	14117	CSE	
27	YASH BHARGAV	14119	CSE	
28	ANEETA GUPTA	14122	CSE	
29	SWASTIK SINGH	14124	CSE	
30	AKSHAT LAMBA	14133	IT	
31	AMAN BABAN DALVI	14136	IT	
32	POORNIMA VERMA	14142	IT	
33	JYOTI GUPTA	14129	IT	
34	RAVI GUPTA	14134	IT	
35	POOJA GUPTA	14137	IT	
36	SHIVANI VERMA	14140	IT	
37	NISHA AGARWAL	14141	IT	
38	PRIYA SINGH	14146	IT	
39	DEEPAK PANDEY	14151	IT	
40	VIJAY THAKUR	14153	IT	
41	AMAAN HAROON	14402	CSIT	
42	AMISHA RAWAT	14407	CSIT	
43	ANANYA	14410	CSIT	
44	AYUSH KAUSHAL	14415	CSIT	
45	GAURAV RATHI	14418	CSIT	
46	KAVYA VERMA	14423	CSIT	
47	MANU AGGARWAL	14426	CSIT	
48	PRACHI MALGUDI	14429	CSIT	
49	RAHUL	14432	CSIT	
50	RATIKA SWAMI	14434	CSIT	



51	SAGAR SINGH	14438	CSIT		
52	SHAILESH TRIPATHI	14441	CSIT		
53	SHIVAM HALDAR	14444	CSIT		
54	SURAJ	14446	CSIT		
55	NEHA VERMA	14456	CSIT		
56	PRIYA CHAUDHARY	14458	CSIT		
57	SWATI AGARWAL	14460	CSIT		
58	ANKITA PANDEY	14461	CSIT		

  
**Co-ordinator**  
**Dr. Aadarsh Malviya**

  
**Head of the Department**  
**Dr. Bipin Pandey**

  
**Director**  
**Dronacharya Group of Institutions**  
**27, KP-III, Greater Noida-201306**

**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** ANSITA RAMOLA **of** CSE Dept. (Final Year)

***has successfully completed six days Student Development  
Program on “DevOps and Continuous Integration/  
Continuous Deployment (CI/CD)”  
from 12<sup>th</sup>-17<sup>th</sup> December 2022.***



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** ANKIT NEGI **of** CSE Dept. (Final Year)

***has successfully completed six days Student Development  
Program on “DevOps and Continuous Integration/  
Continuous Deployment (CI/CD)”  
from 12<sup>th</sup>-17<sup>th</sup> December 2022.***



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



## **Certificate program on DevOps and Continuous Integration / Continuous Deployment (CI/CD)**

**Target Group:** Final Year – Computer Science & Related Streams

**Duration:** 30 Hours

**Dates:** 12th – 17th December 2022

**Organized by:** Department of Computer Science & Engineering

### **Program Curriculum**

<b>Day</b>	<b>Topic</b>	<b>Activities / Tools</b>	<b>Hours</b>
Day 1	Introduction to DevOps and CI/CD Concepts	Agile, DevOps culture, tools overview	5
Day 2	Version Control & Collaboration	Git, GitHub, branching, pull requests	5
Day 3	CI Pipelines	Jenkins setup, CI workflow design	5
Day 4	Containerization & Automation	Docker, DockerHub, writing Dockerfiles	5
Day 5	CD Pipelines & Deployment Strategies	Jenkins + Docker + Git integration, staging environment	5
Day 6	Capstone Project – Build & Deploy a Full Stack App	Project, testing, team presentation	5

### **Learning Outcomes**

After completion, participants will be able to:

- Understand DevOps lifecycle, culture, and tools
- Implement CI/CD pipelines using Jenkins, Git, and Docker
- Automate build, test, and deployment workflows
- Collaborate effectively using Git-based workflows
- Build & deploy scalable applications using modern DevOps practices



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## Assessment & Evaluation Rubric

Evaluation Component	Description	Marks
Attendance & Session Involvement	Active participation and contribution	10
GitHub Practice Task	Hands-on use of version control	10
CI/CD Tool Task	Jenkins + Docker task submission	20
Capstone Project	End-to-end pipeline for a web or cloud application	40
Final Presentation & Viva	Demo, explanation, deployment pipeline clarity	20
<b>Total</b>		<b>100</b>

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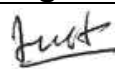

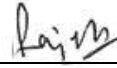


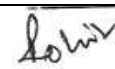
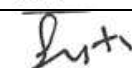
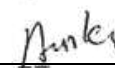
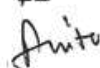
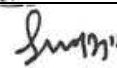
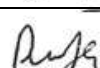
Director

**Dronacharya Group of Institutions**  
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# DRONACHARYA

## Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

TOPIC:	Certificate Program on Battery Technology and Energy Storage Systems		DATE: 14th-19th November 2022	
Students Enrollment				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	HARSHIT MAHESHWARI	14382	EEE	
2	MD SAQLAIN IDRIS	14385	EEE	
3	RAJESH GUPTA	14386	EEE	
4	JYOTI THAKUR	14400	EEE	
5	RITU VERMA	14391	EEE	
6	ROHIT PANDEY	14392	EEE	
7	SWATI MISHRA	14394	EEE	
8	ANKITA AGARWAL	14395	EEE	
9	ANITA AGARWAL	14396	EEE	
10	SHIVANI MISHRA	14398	EEE	
11	POOJA SINGH	14399	EEE	

  
**Co-ordinator**  
**Dr. PALLAVI VERMA**

  
**Head of the Department**  
**Dr. SANGHAMITRA V. ARORA**

  
**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



## **Certificate Program**

### **Battery Technology and Energy Storage Systems**

**Department:** Electrical and Electronics Engineering (EEE)

**Target Audience:** Final Year B.Tech Students

**Dates:** 14th – 19th November 2022

**Duration:** 30 Hours

### **Program Highlights**

This certification course will introduce students to the rapidly advancing domain of **battery systems** and **energy storage technologies**. Through expert sessions and practical components, students will explore how these technologies drive innovations in **electric vehicles, renewable energy, and smart grids**.

### **Course Modules**

1. **Energy Storage Basics**
  - Electrochemical energy, types of storage systems
2. **Battery Chemistries**
  - Li-ion, Lead-acid, Solid-state, and emerging trends
3. **Battery Management Systems**
  - SOC/SOH, thermal management, circuit integration
4. **Charging Protocols & Safety**
  - Life cycles, safe operating limits, degradation
5. **Storage in Smart Grids & EVs**
  - Application in microgrids, solar/wind, EV infrastructure
6. **Capstone Activity**
  - Model/design of a battery pack or energy storage unit

### **Learning Outcomes**

- ✓ Understand working principles of modern battery systems
- ✓ Simulate basic battery models using engineering tools
- ✓ Evaluate energy storage needs in EVs and renewable grids
- ✓ Demonstrate project-based application knowledge



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## Evaluation Pattern

Component	Weight
Interactive Quiz	15%
Hands-on Simulation	25%
Capstone Project	30%
Presentation + Report	20%
Attendance & Involvement	10%
<b>Total</b>	<b>100%</b>

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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**NITIKA YADAV**  
for successfully completing the course

## Data Analytics with Python

with a consolidated score of **58** %

Online Assignments	24.38/25	Proctored Exam	33.51/75
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Total number of candidates certified in this course: **7860**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee

**Jan-Apr 2023**

**(12 week course)**

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23CS08S63610854

To validate the certificate



No. of credits recommended: 3 or 4

**Director**  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**NISHITA SHARMA**  
for successfully completing the course

## Emotional Intelligence

with a consolidated score of **67** %

Online Assignments	21.38/25	Proctored Exam	45.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3187**

Jan-Mar 2023  
(8 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



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विद्यया ऽमृतं, ज्ञानं विद्यया

Roll No: NPTEL23HS11S34420082

To validate the certificate



No. of credits recommended: 2 or 3

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SHAMBHAVI**  
for successfully completing the course

## Introduction to Programming In C

with a consolidated score of **43** %

Online Assignments	13.13/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **2097**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jan-Mar 2023

(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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Roll No: NPTEL23CS02S44581077

To validate the certificate



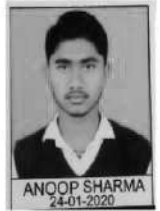
No. of credits recommended: 2 or 3

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



ANOOP SHARMA  
24-01-2020

This certificate is awarded to  
**ANOOP SHARMA**  
for successfully completing the course

## Blockchain and its Applications

with a consolidated score of **53** %

Online Assignments	23.06/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1891**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



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Roll No: NPTEL23CS47S43611715

To validate the certificate



No. of credits recommended: 3 or 4

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**AKANSHA**  
for successfully completing the course

## Patent Law for Engineers and Scientists

with a consolidated score of **52** %

Online Assignments	20.63/25	Proctored Exam	31/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **206**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,  
Centre for Outreach and Digital Education, IITM

**Jan-Apr 2023**

**(12 week course)**

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23HS26S33550842

To validate the certificate



No. of credits recommended: 3 or 4

*Director*

**Director**

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**SHIVAM YADAV**  
for successfully completing the course

## Programming In Java

with a consolidated score of **71** %

Online Assignments	24.88/25	Proctored Exam	45.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **9357**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS49S53446644

To validate the certificate



No. of credits recommended: 3 or 4

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**ABHAY**  
for successfully completing the course

## Manufacturing Process Technology I & II

with a consolidated score of **57** %

Online Assignments	22.47/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **789**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

**Jan-Apr 2023**

**(12 week course)**

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



FREE ONLINE EDUCATION

स्वयम् शिक्षा

Roll No: NPTEL23ME25S63446246

To validate the certificate



No. of credits recommended: 3 or 4

**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**ANUSHA RAMKUMAR KOMMURU**  
for successfully completing the course

## Introduction to Embedded System Design

with a consolidated score of **48** %

Online Assignments	17.81/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **364**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,  
Centre for Outreach and Digital Education, IITM

**Jan-Apr 2023**

**(12 week course)**

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



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Roll No: NPTEL23CS06S33610115

To validate the certificate



No. of credits recommended: 3 or 4

*Director*

**Director**

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**AMBIKA**  
for successfully completing the course

## Computer Networks and Internet Protocol

with a consolidated score of **63** %

Online Assignments	22.1/25	Proctored Exam	40.82/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **3082**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS48S33610257

To validate the certificate



No. of credits recommended: 3 or 4

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KOMAL BORA**

for successfully completing the course

## Introduction to Industry 4.0 and Industrial Internet of Things

with a consolidated score of **60** %

Online Assignments	21.22/25	Proctored Exam	39.27/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7689**

Jan-Apr 2023

(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS52S33442945

To validate the certificate



No. of credits recommended: 3 or 4

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MEENAKSHI SINGH**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **65** %

Online Assignments	24.78/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **14770**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS51563611146

To validate the certificate



No. of credits recommended: 3 or 4

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Elite

# NPTEL Online Certification

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This certificate is awarded to  
**MEGHA**  
for successfully completing the course

## Speaking Effectively

with a consolidated score of **69** %

Online Assignments	18.4/25	Proctored Exam	50.25/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **2076**

Jan-Mar 2023  
(8 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS13S24420477

To validate the certificate



No. of credits recommended: 2 or 3

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



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# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MEENAKSHI SINGH**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **63** %

Online Assignments	23.96/25	Proctored Exam	38.87/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **12752**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur

**Feb-Apr 2023**

**(8 week course)**

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23HS30S43611639

To validate the certificate



No. of credits recommended: 2 or 3

**Director**  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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## CERTIFICATE OF RECOGNITION

This is to certify that

**SANYA MITTAL**

has successfully completed the course on AWS Certified Cloud Practitioner (CLF-C01)

with Grade **B** under Honeywell Student Empowerment Program held from 06 Feb 2023 to 22 Feb 2023

at Dronacharya College of Engineering, Gurugram, Haryana

Director

C.No: G-2023-W2895-0041  
Date: 22 Feb 2023  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201

*Pooja Thakran*

Pooja Thakran,  
Sr. Director - Corporate Communications &  
CSR, Honeywell

Hari Balachandran  
Chief Executive Officer, ICT Academy



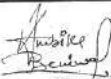
# DRONACHARYA Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

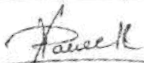
Attendance Sheet			Certificate course on Financial Services and Consultancy						DATE: 09th-14th August 2021
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1.	HARSHIT CHAUBEY	16728	MBA	Harshit	Harshit	Harshit	Harshit	Harshit	Harshit
2	KANIKA CHAWLA	16742	MBA	Kanika	Kanika	Kanika	Kanika	Kanika	Kanika
3	KOMAL REXWAL	16741	MBA	Komal	Komal	Komal	Komal	Komal	Komal
4	NISHANT CHAUHAN	16731	MBA	Nishant	Nishant	Nishant	Nishant	Nishant	Nishant
5	PAYAL	16747	MBA	Payal	Payal	Payal	Payal	Payal	Payal
6	PRIYA	16750	MBA	Priya	Priya	Priya	Priya	Priya	Priya
7	RAHUL KASHYAP	16733	MBA	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
8	RISHIKA RAZDAN	16734	MBA	Rishika	Rishika	Rishika	Rishika	Rishika	Rishika
9	SHABNAM	16738	MBA	Shabnam	Shabnam	Shabnam	Shabnam	Shabnam	Shabnam
10	UJJWAL SAXENA	16743	MBA	Ujjwal	Ujjwal	Ujjwal	Ujjwal	Ujjwal	Ujjwal
11	MAHIMA GUPTA	16745	MBA	Mahima	Mahima	Mahima	Mahima	Mahima	Mahima
12	MANISHA	16746	MBA	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha
13	MANISHA KUMARI	16736	MBA	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha
14	MANSI	16748	MBA	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi
15	MANSI	16749	MBA	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi
16	MANTASHA	16722	MBA	Mantasha	Mantasha	Mantasha	Mantasha	Mantasha	Mantasha
17	HARI SINGH	16751	MBA	Hari	Hari	Hari	Hari	Hari	Hari
18	MEENAKSHI SINGH	16752	MBA	Meenakshi	Meenakshi	Meenakshi	Meenakshi	Meenakshi	Meenakshi
19	MEGHA VERMA	16753	MBA	Megha	Megha	Megha	Megha	Megha	Megha
20	MOHINI	16755	MBA	Mohini	Mohini	Mohini	Mohini	Mohini	Mohini
21	MONIKA	16757	MBA	Monika	Monika	Monika	Monika	Monika	Monika
22	KUNAL BISHT	16758	MBA	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal
23	MUSKAN	16759	MBA	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan
24	MUSKAN	16760	MBA	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan
25	ADITYA KUMAR	16761	MBA	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
26	AKASH KUMAR	16762	MBA	Akash	Akash	Akash	Akash	Akash	Akash

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27	ALOK KUMAR	16763	MBA	Blot	Blot	Blot	Blot	Blot	Blot
28	AMAN SHARMA	16764	MBA	Ames	Ames	Ames	Ames	Ames	Ames
29	LAKSHAY GUPTA	16765	MBA	Lesikita	Lesikita	Lesikita	Lesikita	Lesikita	Lesikita
30	LALIT SINGH	16766	MBA	hnt	hnt	hnt	hnt	hnt	hnt
31	HRITIK TIWARI	16767	MBA	Jkhsr	Jkhsr	Jkhsr	Jkhsr	Jkhsr	Jkhsr
32	ISHAN KOHLI	16768	MBA	lhan	lhan	lhan	lhan	lhan	lhan
33	KARTIK SHUKLA	16769	MBA	Vshlu	Vshlu	Vshlu	Vshlu	Vshlu	Vshlu
34	PREETI PAL	16770	MBA	Opel	Opel	Opel	Opel	Opel	Opel

  
Co-ordinator

**Dr. AMBIKA BENIWAL**

  
Head of the Department

**Dr. VANDANA PAREEK**



Director

**Dronacharya Group of Institutions**  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** KANIKA CHAWLA ***of*** MBA Dept. (1st Year)

***has successfully completed six days Student Development  
Program on “ Financial Services and Consultancy ”  
from 09th-14th August 2021***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director



Director

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**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** SHABNAM ***of*** MBA Dept. (1st Year)

***has successfully completed six days Student Development  
Program on “ Financial Services and Consultancy ”  
from 09th-14th August 2021***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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## **Short-Term Development Program (SDP) on Financial Services and Consultancy**

**Course:** Certificate course on Financial Services and Consultancy

**Date:** 9th-14th August 2021

**Duration:** 6 Day

**Target Students:** MBA 1<sup>st</sup> Year Students

### **Course Objective:**

To equip learners with essential knowledge and practical skills in financial services, investment planning, banking, taxation, and consultancy, enabling them to offer competent financial advice and consultancy services.

---

## **□ Course Modules**

### **Module 1: Introduction to Financial Services**

- Overview of financial services sector
- Role of financial intermediaries
- Regulatory environment (SEBI, RBI, IRDAI)
- Recent trends and innovations in financial services

### **Module 2: Financial Markets and Instruments**

- Capital and money markets
- Primary and secondary markets
- Financial instruments: equity, bonds, derivatives, mutual funds

### **Module 3: Investment Planning and Portfolio Management**

- Investment strategies
- Risk-return analysis
- Asset allocation
- Basics of portfolio management

### **Module 4: Banking and Insurance Services**

- Types of banks and their functions
- Credit creation and risk assessment



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- Insurance products and planning
- Bancassurance

### **Module 5: Financial Consultancy Practices**

- Understanding client financial goals
- Personal financial planning
- Tax planning and advisory
- Retirement and estate planning

### **Module 6: Practical Tools and Case Studies**

- Financial calculators and Excel modeling
  - Reading financial statements
  - Case studies in consultancy and investment
  - Ethics in financial consultancy
- 



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## Evaluation Pattern

Component	Weightage
Module-wise Quizzes	20%
Assignment/Project Work	25%
Case Study Analysis	15%
Final Examination (MCQ/Written)	30%
Class Participation/Attendance	10%

### ☐ Certification Criteria:

- Minimum 50% in each component
- At least 75% overall attendance
- Successful completion of project work



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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Attendance Sheet								DATE: 29th November-4th December 2021	
Certificate Course on Enhancing Soft Skills and Personality									
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ABHISHEK KUMAR	16006	CSE	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
2	ABHISHEK SHARMA	16009	CSE	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
3	ADITYA NAIR	16012	CSE	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
4	AFTAB AHMED KHAN	16015	CSE	Aftab	Aftab	Aftab	Aftab	Aftab	Aftab
5	ANJALI RAJPUT	16035	CSE	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali
6	ARYAN BAISOYA	16044	CSE	Aryan	Aryan	Aryan	Aryan	Aryan	Aryan
7	DEEPAK SINGH BAGHEL	16063	CSE	Deepak	Deepak	Deepak	Deepak	Deepak	Deepak
8	FAIQUE AHMED RAZA KHAN	16070	CSE	Faique	Faique	Faique	Faique	Faique	Faique
9	NISHA KUMARI	16115	CSE	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha
10	VANDANA	16278	CSIT	Vandana	Vandana	Vandana	Vandana	Vandana	Vandana
11	AMANATULLAH	16281	CSIT	Amanatullah	Amanatullah	Amanatullah	Amanatullah	Amanatullah	Amanatullah
12	ANGAD KUMAR	16284	CSIT	Angad	Angad	Angad	Angad	Angad	Angad
13	ABHINAV TIWARI	16288	CSIT	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav
14	MIDHVANA RISHI	16307	CSIT	Midhvana	Midhvana	Midhvana	Midhvana	Midhvana	Midhvana
15	NIKHIL RAJ	16310	CSIT	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
16	PRERNA YADAV	16315	CSIT	Prerna	Prerna	Prerna	Prerna	Prerna	Prerna
17	AARTI ANTHWAL	16203	IT	Aarti	Aarti	Aarti	Aarti	Aarti	Aarti
18	ASHISH KUMAR	16205	IT	Ashish	Ashish	Ashish	Ashish	Ashish	Ashish
19	KARTIK TYAGI	16221	IT	Kartik	Kartik	Kartik	Kartik	Kartik	Kartik
20	NASEEM	16226	IT	Naseem	Naseem	Naseem	Naseem	Naseem	Naseem
21	SHIVAM SINGH	16237	IT	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam
22	VAIBHAV DUBEY	16250	IT	Vaibhav	Vaibhav	Vaibhav	Vaibhav	Vaibhav	Vaibhav
23	AMIT KUMAR JHA	16346	AIML	Amit	Amit	Amit	Amit	Amit	Amit
24	ARUSH TAANK	16355	AIML	Arush	Arush	Arush	Arush	Arush	Arush
25	ARCHIT PANDEY	16358	AIML	Archit	Archit	Archit	Archit	Archit	Archit
26	KAUSHAL SHARMA	16382	AIML	Kaushal	Kaushal	Kaushal	Kaushal	Kaushal	Kaushal
27	MRIDUL PANDEY	16388	AIML	Mridul	Mridul	Mridul	Mridul	Mridul	Mridul
28	LOKESH KUMAR	16420	AIML	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh
29	UTKARSH TIWARI	16430	AIML	Utkarsh	Utkarsh	Utkarsh	Utkarsh	Utkarsh	Utkarsh
30	MUNENDAR	16547	ECE	Munendar	Munendar	Munendar	Munendar	Munendar	Munendar
31	VANDANA	16574	ECE	Vandana	Vandana	Vandana	Vandana	Vandana	Vandana
32	HARSH SINGH	16593	ECE	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
33	HARSHITA SHARMA	16595	ECE	Harshita	Harshita	Harshita	Harshita	Harshita	Harshita
34	SAKSHI KAUSHIK	16610	EEE	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
35	RAJAT PATI TRIPATHI	16620	EEE	Rajat	Rajat	Rajat	Rajat	Rajat	Rajat



36	SHIVANSHU SINGH	16634	EEE	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
37	SIDDHANT SAINI	16483	ECZ	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
38	PUSHKAR RAJ	16500	ECZ	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
39	NITIN CHAUHAN	16511	ECZ	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
40	SUMIT KUMAR RAI	16555	ECZ	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
41	MD AFROZ	16663	ME	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
42	ASHISH MALIK	16670	ME	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
43	ANKIT CHAURASIA	16684	ME	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
44	DIVAKAR	16689	ME	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
45	SATYAM	16692	ME	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

*[Signature]*  
**Co-ordinator**  
**Dr. Suchita Hotwani**

*[Signature]*  
**Head of the Department**  
**Dr. Pawan Kumar Sharma**

*[Signature]*

**Director**  
**Dronacharya Group of Institutions**  
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**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Faculty Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** VANDANA **of** CSIT Dept. (1st Year)

***has successfully completed Five days Faculty***

***Development Program on “ Enhancing Soft Skills and Personality”***

***from 29th November-4th December 2021***

  
**Dr. Bipin Pandey**

*Co-ordinator*

  
*Director*

  
**Prof. (Dr.) Arpita Gupta**

*Director*

**Dronacharya Group of Institutions**

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**DRONACHARYA**  
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Greater Noida

**Faculty Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** ABHINAV TIWARI **of** CSIT Dept. (1st Year)

***has successfully completed Five days Faculty***

***Development Program on “ Enhancing Soft Skills and Personality”***

***from 29th November-4th December 2021***

  
**Dr. Bipin Pandey**

*Co-ordinator*

  
**Prof. (Dr.) Arpita Gupta**

*Director*



*Director*

**Dronacharya Group of Institutions**  
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## **Short-Term Development Program (SDP) on Enhancing Soft Skills and Personality**

**Course:** Certificate Course on Enhancing Soft Skills and Personality

**Date:** 29th November-4th December 2021

**Duration:** 6 Day

**Target Student:** APS Students

### **Course Objective:**

To develop essential soft skills and enhance personality traits that contribute to effective communication, leadership, teamwork, and personal growth, enabling learners to thrive in academic, professional, and social environments.

---

## ☐ **Course Modules**

### **Module 1: Introduction to Soft Skills and Personality Development**

- Definition and importance of soft skills
- Components of personality
- Self-awareness and self-assessment
- Growth mindset and emotional intelligence

### **Module 2: Communication Skills**

- Verbal and non-verbal communication
- Public speaking and presentation skills
- Listening skills
- Business and professional communication

### **Module 3: Interpersonal and Teamwork Skills**

- Building relationships and rapport
- Conflict resolution and negotiation
- Working in teams and group dynamics
- Cross-cultural sensitivity

### **Module 4: Leadership and Time Management**

- Leadership styles and qualities
- Decision making and problem solving



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- Time management techniques
- Goal setting and prioritization

### **Module 5: Stress Management and Positive Attitude**

- Identifying stressors and coping mechanisms
- Techniques for stress reduction (e.g., mindfulness, breathing)
- Developing resilience
- Cultivating a positive and proactive outlook

### **Module 6: Grooming, Etiquette, and Interview Skills**

- Personal grooming and body language
  - Professional etiquette and workplace behavior
  - Resume writing and cover letters
  - Mock interviews and feedback
- 



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## Evaluation Pattern

Component	Weightage
Class Activities/Participation	20%
Role Plays, Presentations	20%
Assignments & Reflection Logs	20%
Group Project/Case Study	20%
Final Viva/Practical Assessment	20%

### ☐ Certification Criteria:

- Minimum 50% marks in each component
- At least 75% attendance
- Active participation in workshops and practical sessions



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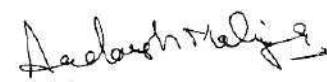
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Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 07th-12th February 2022				
Students Enrollment Sheet		Certificate Course on Programming Foundations with JavaScript, HTML and CSS		
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ABHINAV CHAURASIA	16004	CSE	
2	AKSHAT PANDEY	16019	CSE	
3	AMAN PANDEY	16025	CSE	
4	ANAMIKA	16032	CSE	
5	ATHARVA SRIVASTAVA	16050	CSE	
6	AYUSH BHATIA	16055	CSE	
7	CHIRAG RANA	16060	CSE	
8	ISHITA BUDHANI	16083	CSE	
9	NIKHIL GULATI	16090	CSE	
10	KAUSHAL GUPTA	16093	CSE	
11	KUSHAGRA DWIVEDI	16098	CSE	
12	OM MISHRA	16120	CSE	
13	PRAANJAL RAIKWAR	16123	CSE	
14	PRASHANT MALKOTI	16126	CSE	
15	PRIYA PANDEY	16129	CSE	
16	RISHABH NIGAM	16133	CSE	
17	RINESH CHANANA	16141	CSE	
18	SHIVANI JOSHI	16165	CSE	
19	SIMON SINGHAL	16170	CSE	
20	SHIVAM YADAV	16173	CSE	
21	SPARSH RASTOGI	16175	CSE	
22	SUNIDHI TOMAR	16181	CSE	
23	TEJASVI RAI	16186	CSE	
24	VAIBHAV YADAV	16192	CSE	
25	VINAYAK KOCHHAR	16197	CSE	
26	YASH PATEL	16201	CSE	
27	RISHABH KUMAR	16290	CSIT	
28	JYOTIRADITYA RAJAT	16293	CSIT	

29	DIVYANSHI MISHRA	16297	CSIT		
30	HARSH PARASHAR	16300	CSIT		
31	KRISHNA MOHAN PATEL	16303	CSIT		
32	RAHUL RAJ PANDEY	16318	CSIT		
33	SAURAV SINGH BISHT	16324	CSIT		
34	SHIVAM MISHRA	16329	CSIT		
35	TANISHQ SHARMA	16335	CSIT		
36	VISHAL SHRESTHA	16339	CSIT		
37	AKASH VERMA	16208	IT		
38	ANJANI KUMARI	16209	IT		
39	RAJAN KUMAR	16228	IT		
40	RIYA	16231	IT		
41	SAIRUS SINGH	16232	IT		
42	VARUN SHRIVASTAVA	16242	IT		
43	ADITYA KUMAR SINGH	16342	AIML		
44	DHRUV AGGARWAL	16366	AIML		
45	PRAVEEN KUMAR	16370	AIML		
46	DEEPAK KUMAR	16374	AIML		
47	HARSH KHURANA	16378	AIML		
48	VINEET SINGH	16385	AIML		
49	PRIYANKA KUSHWAHA	16398	AIML		
50	REKHA	16403	AIML		
51	SANDEEP KUMAR SINGH	16406	AIML		
52	SANSKAR SHUKLA	16410	AIML		
53	SACHIN SAGAR	16412	AIML		
54	VINEET SHARMA	16440	AIML		
55	HARSHIT SINGH	16444	AIML		

  
**Co-ordinator**  
**Dr. Aadarsh Malviya**

  
**Head of the Department**  
**Dr. Pawan Kumar Sharma**

  
**Director**

**Dronacharya Group of Institutions**  
**27, KP-III, Greater Noida-201306**

## **Short-Term Development Program (SDP) on Programming Foundations with JavaScript, HTML and CSS**

**Course:** Certificate Course on Programming Foundations with JavaScript, HTML and CSS

**Date:** 07th-12th February 2022

**Duration:** 6 Day

**Target Students:** CSE/CSIT/IT/AIML

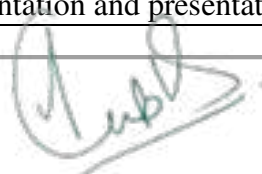
### **Course Objectives:**

- To provide foundational knowledge of web development.
- To introduce the syntax and structure of HTML, CSS, and JavaScript.
- To enable students to build and style web pages with basic interactivity.
- To develop problem-solving and debugging skills using JavaScript.

---

### **Course Modules**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>
<b>Module 1</b>	Introduction to Web Development	Web technologies, web browsers, client-server architecture, setting up development tools
<b>Module 2</b>	HTML – Structuring Web Pages	HTML tags, elements, attributes, semantic HTML, forms, tables, lists, multimedia
<b>Module 3</b>	CSS – Styling Web Pages	CSS syntax, selectors, box model, layout (Flexbox & Grid), responsive design, transitions, animations
<b>Module 4</b>	JavaScript – Programming Fundamentals	Variables, data types, operators, control flow (if, switch, loops), functions, arrays, objects
<b>Module 5</b>	JavaScript – DOM Manipulation and Events	Document Object Model (DOM), event handling, basic form validation, user interaction
<b>Module 6</b>	Mini Project and Debugging	Developing a basic web app, using browser DevTools, project documentation and presentation



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## Evaluation Pattern

Component	Weightage
Quizzes (Module-wise)	15%
Assignments (HTML/CSS/JS)	25%
Mini Project	30%
Debugging Exercises	15%
Final Viva/Presentation	15%

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## Certification Requirements

- Minimum 50% score in each component.
- At least 75% attendance.
- Successful submission and demonstration of the mini project.



Director

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B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Attendance Sheet							Mobile Application and Development			DATE: 11th-16th April 2022	
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6		
1	AARYAN SHARMA	16001	CSE	Present	Present	Present	Present	Present	Present		
2	AAVRITI GUPTA	16002	CSE	Present	Present	Present	Present	Present	Present		
3	AMAN BANSAL	16021	CSE	Present	Present	Present	Present	Present	Present		
4	AMAN KUMAR	16023	CSE	Present	Present	Present	Present	Present	Present		
5	AMANDEEP SINGH ROUTELA	16029	CSE	Present	Present	Present	Present	Present	Present		
6	ANURAG	16031	CSE	Present	Present	Present	Present	Present	Present		
7	ANSHITA AGARWAL	16038	CSE	Present	Present	Present	Present	Present	Present		
8	ARIN SHARMA	16042	CSE	Present	Present	Present	Present	Present	Present		
9	DHRUV JANGRA	16065	CSE	Present	Present	Present	Present	Present	Present		
10	GULSHAN KUMAR	16074	CSE	Present	Present	Present	Present	Present	Present		
11	HIMANSHU MALL	16079	CSE	Present	Present	Present	Present	Present	Present		
12	ISHA RAWAT	16081	CSE	Present	Present	Present	Present	Present	Present		
13	JAYANT YADAV	16087	CSE	Present	Present	Present	Present	Present	Present		
14	KAMAKSHI GUPTA	16089	CSE	Present	Present	Present	Present	Present	Present		
15	MD MOZAMMIL	16103	CSE	Present	Present	Present	Present	Present	Present		
16	MUSKAN PANDEY	16108	CSE	Present	Present	Present	Present	Present	Present		
17	NIKHIL KUMAR JHA	16111	CSE	Present	Present	Present	Present	Present	Present		
18	NIKHIL PRAJAPATI	16112	CSE	Present	Present	Present	Present	Present	Present		
19	RAJ THAKUR	16135	CSE	Present	Present	Present	Present	Present	Present		
20	REHAN AHMAD	16139	CSE	Present	Present	Present	Present	Present	Present		
21	RITIKA	16147	CSE	Present	Present	Present	Present	Present	Present		
22	SAKSHAM SAKLANI	16154	CSE	Present	Present	Present	Present	Present	Present		
23	SARTHAK SRIVASTAVA	16156	CSE	Present	Present	Present	Present	Present	Present		
24	SHAH NOOR UL ISHTIYAQ	16158	CSE	Present	Present	Present	Present	Present	Present		
25	SHAINA SALMANI	16160	CSE	Present	Present	Present	Present	Present	Present		
26	SIDDHARTH RANA	16169	CSE	Present	Present	Present	Present	Present	Present		
27	SRISHTI MITTAL	16177	CSE	Present	Present	Present	Present	Present	Present		
28	ANKIT	16285	CSIT	Present	Present	Present	Present	Present	Present		
29	ANKIT SAHOO	16286	CSIT	Present	Present	Present	Present	Present	Present		
30	KUNAL VATS	16304	CSIT	Present	Present	Present	Present	Present	Present		
31	KHUSHI TIKOO	16305	CSIT	Present	Present	Present	Present	Present	Present		
32	KHUSHI KAPOOR	16306	CSIT	Present	Present	Present	Present	Present	Present		
33	S K SARFARAZ	16325	CSIT	Present	Present	Present	Present	Present	Present		
34	SHAILENDER SINGH	16327	CSIT	Present	Present	Present	Present	Present	Present		
35	SHRUTI MEHRA	16328	CSIT	Present	Present	Present	Present	Present	Present		
36	APURV RANA	16204	IT	Present	Present	Present	Present	Present	Present		
37	DEEPAK SHRIVAS	16213	IT	Present	Present	Present	Present	Present	Present		
38	GAGAN KUMAR	16216	IT	Present	Present	Present	Present	Present	Present		
39	VANSHITA DAS	16244	IT	Present	Present	Present	Present	Present	Present		
40	ANKUR TRIPATHI	16350	AIML	Present	Present	Present	Present	Present	Present		
41	KAUSHAL PRATAP SINGH	16368	AIML	Present	Present	Present	Present	Present	Present		
42	DINESH KUMAR	16372	AIML	Present	Present	Present	Present	Present	Present		
43	JAYVEER YADAV	16380	AIML	Present	Present	Present	Present	Present	Present		
44	RISHI GUPTA	16392	AIML	Present	Present	Present	Present	Present	Present		
45	PRIYANSHU RANAKOTI	16396	AIML	Present	Present	Present	Present	Present	Present		
46	RAJAT SINGH	16402	AIML	Present	Present	Present	Present	Present	Present		
47	CHANDRANSHU SINGH	16544	ECE	Present	Present	Present	Present	Present	Present		

48	PARAM MISHRA	16553	ECE	Dark	Dark	Dark	Dark	Dark	Dark
49	VED PRAKASH	16558	ECE	ved	ved	ved	ved	ved	ved
50	SHAGIL KHAN	16562	ECE	Dark	Dark	Dark	Dark	Dark	Dark
51	SWATI RAI	16586	ECE	Pute	Pute	Pute	Pute	Pute	Pute
52	AMAN KUMAR	16579	ECE	Amor	Amor	Amor	Amor	Amor	Amor
53	SUBHANKAR DAS	16583	ECE	Dark	Dark	Dark	Dark	Dark	Dark
54	ADITI	16585	ECE	Dark	Dark	Dark	Dark	Dark	Dark
55	AKSHITA GOEL	16587	ECE	Dark	Dark	Dark	Dark	Dark	Dark
56	DIPESH MITTAL	16588	ECE	Di Pesh	Di Pesh	Di Pesh	Di Pesh	Di Pesh	Di Pesh
57	GAURAV KUMAR	16606	EEE	Dkhs	Dkhs	Dkhs	Dkhs	Dkhs	Dkhs
58	RACHIT SINGH NEGI	16607	EEE	Dark	Dark	Dark	Dark	Dark	Dark
59	VIVEK ANAND	16617	EEE	Unik	Unik	Unik	Unik	Unik	Unik
60	PIYUSH CHOUDHARY	16618	EEE	Dark	Dark	Dark	Dark	Dark	Dark
61	SONU KUMAR	16625	EEE	Un	Un	Un	Un	Un	Un
62	SOURAV BANERJEE	16630	EEE	LoPeel	LoPeel	LoPeel	LoPeel	LoPeel	LoPeel
63	ANIKET	16489	ECZ	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket
64	ARUN CHAUDHARY	16492	ECZ	Arun	Arun	Arun	Arun	Arun	Arun
65	AYUSH KUMAR TIWARI	16495	ECZ	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush
66	BHANU PATEL	16498	ECZ	Bhanu	Bhanu	Bhanu	Bhanu	Bhanu	Bhanu
67	SURAJ MAITY	16513	ECZ	Luss	Luss	Luss	Luss	Luss	Luss
68	POOJA	16517	ECZ	Peepa	Peepa	Peepa	Peepa	Peepa	Peepa
69	VUAY VERMA	16522	ECZ	Dark	Dark	Dark	Dark	Dark	Dark
70	SURYA NARAYAN PACHAURI	16528	ECZ	Sur	Sur	Sur	Sur	Sur	Sur
71	ROHAN SHARMA	16662	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu
72	NAVNEET PANDEY	16666	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu
73	DEEPAK YADAV	16668	ME	Deepak	Deepak	Deepak	Deepak	Deepak	Deepak
74	ADARSH KUMAR	16672	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu
75	AJAY KUMAR	16675	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu
76	AMOL CHAURASIA	16679	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu
77	ANAND SHAHI	16681	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu
78	SATENDRA KUMAR PRAJAPATI	16691	ME	Arshu	Arshu	Arshu	Arshu	Arshu	Arshu

*Aadarsh Malviya*  
Co-ordinator  
Dr. Aadarsh Malviya

*Sharma*  
Head of the Department  
Dr. Pawan Kumar Sharma

*Arshu*

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Faculty Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** RISHI GUPTA ***of*** CSE(AIML)Dept. (1st Year)

***has successfully completed Five days Faculty Development  
Program on “ Mobile Application and Development”  
from 11th-16th April 2022***



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Faculty Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** JAYVEER YADAV ***of*** CSE(AIML)Dept. (1st Year)

***has successfully completed Five days Faculty Development  
Program on “ Mobile Application and Development”  
from 11th-16th April 2022***



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

## **Short-Term Development Program (SDP) on Mobile Application and Development**

**Course:** Certificate course Mobile Application and Development

**Date:** 11th-16th April 2022

**Duration:** 6 Day

**Target Students:** APS Students

### **1. Course Title:**

**Mobile Application and Development**

### **2. Course Duration:**

8–12 Weeks (can be customized based on institutional requirement)

### **3. Course Objective:**

To introduce students to the fundamentals of mobile application development and provide hands-on training in building, testing, and deploying mobile apps using modern technologies and tools.

### **4. Course Content / Modules:**

<b>Module No.</b>	<b>Module Title</b>	<b>Key Topics</b>
<b>Module 1</b>	Introduction to Mobile Development	Mobile ecosystems, native vs hybrid apps, app architecture, tools (Android Studio, Xcode, etc.)
<b>Module 2</b>	UI/UX Design Principles	Layouts, components, color theory, navigation patterns, responsive design, wireframing
<b>Module 3</b>	Programming for Mobile Applications	Java/Kotlin (Android) or Swift (iOS), activity lifecycle, UI components, input handling
<b>Module 4</b>	Data Handling and Connectivity	SQLite databases, Firebase integration, REST APIs, JSON/XML data parsing
<b>Module 5</b>	Testing, Debugging, and Optimization	Emulator/simulator use, debugging tools, logcat, app performance, crash analytics
<b>Module 6</b>	Deployment and Project Work	Code publishing (Play Store/App Store), version control, documentation, capstone project

## 5. Evaluation Scheme:

Assessment Component	Weightage
Quizzes / Class Tests	15%
Practical Assignments	25%
Capstone Project (App Development)	30%
Code Review & Debugging Tasks	15%
Final Viva / Project Presentation	15%

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Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# DRONACHARYA


## Group of Institutions


B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201305  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Attendance Sheet				Certificate course on Web development with JAVA				DATE: 11th-16th April 2022	
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ABHINAV SINGH	16003	CSE	Present	Present	Present	Present	Present	Present
2	ABHISHEK MISHRA	16007	CSE	Present	Present	Present	Present	Present	Present
3	RAHUL KUMAR	16014	CSE	Present	Present	Present	Present	Present	Present
4	AKSH RUSTAGI	16018	CSE	Present	Present	Present	Present	Present	Present
5	ARCHIKA VERMA	16041	CSE	Present	Present	Present	Present	Present	Present
6	AAKASH KUMAR GUPTA	16047	CSE	Present	Present	Present	Present	Present	Present
7	ATUL BHANOT	16049	CSE	Present	Present	Present	Present	Present	Present
8	DIKSHA VAID	16067	CSE	Present	Present	Present	Present	Present	Present
9	DRISHTI JAIN	16069	CSE	Present	Present	Present	Present	Present	Present
10	GARVIT GAURI	16072	CSE	Present	Present	Present	Present	Present	Present
11	ISHAAN AGICHA	16082	CSE	Present	Present	Present	Present	Present	Present
12	YASHASWI SINGH	16085	CSE	Present	Present	Present	Present	Present	Present
13	KARTIK THAKUR	16092	CSE	Present	Present	Present	Present	Present	Present
14	ANIL PAL	16096	CSE	Present	Present	Present	Present	Present	Present
15	KUSHAGRA BARNWAL	16097	CSE	Present	Present	Present	Present	Present	Present
16	RISHABH BHARDWAJ	16101	CSE	Present	Present	Present	Present	Present	Present
17	LAKSHYA RAWAT	16102	CSE	Present	Present	Present	Present	Present	Present
18	MOHD AFTAB	16109	CSE	Present	Present	Present	Present	Present	Present
19	OM KUMAR	16119	CSE	Present	Present	Present	Present	Present	Present
20	PRATHAM RAJ SRIVASTAVA	16127	CSE	Present	Present	Present	Present	Present	Present
21	PRAGYA SRIVASTAVA	16132	CSE	Present	Present	Present	Present	Present	Present
22	RADHIKA SHARMA	16134	CSE	Present	Present	Present	Present	Present	Present
23	RAMAN VERMA	16137	CSE	Present	Present	Present	Present	Present	Present
24	RISHABH OJHA	16143	CSE	Present	Present	Present	Present	Present	Present
25	RISHABH SHUKLA	16144	CSE	Present	Present	Present	Present	Present	Present
26	SHAHNAWAZ ALAM	16159	CSE	Present	Present	Present	Present	Present	Present
27	SOURABH PARGAI	16172	CSE	Present	Present	Present	Present	Present	Present
28	SHIVAM NAGAR	16174	CSE	Present	Present	Present	Present	Present	Present
29	SRISHTI KANDPAL	16176	CSE	Present	Present	Present	Present	Present	Present
30	SUHANU	16178	CSE	Present	Present	Present	Present	Present	Present
31	SAMEER	16182	CSE	Present	Present	Present	Present	Present	Present
32	MANSI PASBOLA	16188	CSE	Present	Present	Present	Present	Present	Present
33	YASHIKA GOYAL	16190	CSE	Present	Present	Present	Present	Present	Present
34	UDAY YADAV	16191	CSE	Present	Present	Present	Present	Present	Present
35	VARNIKA TOMAR	16194	CSE	Present	Present	Present	Present	Present	Present
36	VIKAS KUMAR PATEL	16196	CSE	Present	Present	Present	Present	Present	Present
37	VAIBHAV KUMAR GUPTA	16198	CSE	Present	Present	Present	Present	Present	Present
38	CHHAVI CHAUDHARY	16199	CSE	Present	Present	Present	Present	Present	Present
39	YASH	16200	CSE	Present	Present	Present	Present	Present	Present
40	VISHESH SINGH	16272	CSIT	Present	Present	Present	Present	Present	Present
41	ADITYA JANGID	16275	CSIT	Present	Present	Present	Present	Present	Present
42	ADITYA TIWARI	16277	CSIT	Present	Present	Present	Present	Present	Present
43	AZHAR ABIDEN	16283	CSIT	Present	Present	Present	Present	Present	Present
44	DEEPAK BAGHEL	16289	CSIT	Present	Present	Present	Present	Present	Present
45	DEEPAK SINGH	16291	CSIT	Present	Present	Present	Present	Present	Present
46	HARIOM KUSHWAH	16298	CSIT	Present	Present	Present	Present	Present	Present
47	HARSH SINGH	16299	CSIT	Present	Present	Present	Present	Present	Present
48	MEENAKSHI SINGH	16311	CSIT	Present	Present	Present	Present	Present	Present
49	PREETI YADAV	16313	CSIT	Present	Present	Present	Present	Present	Present



50	UDIT RAJ	16321	CSIT	UDIT	UDIT	UDIT	UDIT	UDIT	UDIT
51	RIYA SHARAD	16322	CSIT	Riya	Riya	Riya	Riya	Riya	Riya
52	FARDEEN KHAN	16341	CSIT	Fardeen	Fardeen	Fardeen	Fardeen	Fardeen	Fardeen
53	AKANSHA TIWARI	16207	IT	Akansha	Akansha	Akansha	Akansha	Akansha	Akansha
54	AMIT PAL	16210	IT	Amit	Amit	Amit	Amit	Amit	Amit
55	ATUL KUMAR JHA	16212	IT	Atul	Atul	Atul	Atul	Atul	Atul
56	SEEMA	16236	IT	Seema	Seema	Seema	Seema	Seema	Seema
57	TANIYA KATARIA	16239	IT	Taniya	Taniya	Taniya	Taniya	Taniya	Taniya
58	ASHLOK DUBEY	16362	AIML	Ashlok	Ashlok	Ashlok	Ashlok	Ashlok	Ashlok
59	BHANU PRATAP	16364	AIML	Bhanu	Bhanu	Bhanu	Bhanu	Bhanu	Bhanu
60	KESHAV KUMAR AGGARWAL	16369	AIML	Keshav	Keshav	Keshav	Keshav	Keshav	Keshav
61	ANAND TOMAR	16394	AIML	Anand	Anand	Anand	Anand	Anand	Anand
62	KAJAL TIWARI	16404	AIML	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal
63	SHREYANSH MISHRA	16408	AIML	Shreyansh	Shreyansh	Shreyansh	Shreyansh	Shreyansh	Shreyansh
64	SAROJ NARENDAR ASHAPAL	16424	AIML	Saroj	Saroj	Saroj	Saroj	Saroj	Saroj
65	VIKRAM KUMAR MISHRA	16438	AIML	Vikram	Vikram	Vikram	Vikram	Vikram	Vikram

  
Co-ordinator  
Mr. Shantanu Pant

  
Head of the Department  
Dr. Pawan Kumar Sharma



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Faculty Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** ATUL BHANOT ***of*** CSE Dept. (1st Year)

***has successfully completed Five days Faculty Development  
Program on “ Web development with JAVA”  
from 11th-16th April 2022***



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Faculty Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** ANIL PAL ***of*** CSE Dept. (1st Year)

***has successfully completed Five days Faculty Development  
Program on “ Web development with JAVA”  
from 11th-16th April 2022***



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**

**Dronacharya Group of Institutions**  
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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

Attendance Sheet								DATE: 6TH-11TH SEPTEMBER 2021	
Certificate course on Ethical Hacking									
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ABHIRAJ KUMAR	16005	CSE	Abhiraj	Abhiraj	Abhiraj	Abhiraj	Abhiraj	Abhiraj
2	ABHINAV NEGI	16010	CSE	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav	Abhinav
3	ADITYA CHAUDHARY	16011	CSE	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
4	ADITYA TIWARI	16013	CSE	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
5	AKHIL SINGH	16017	CSE	Akhil	Akhil	Akhil	Akhil	Akhil	Akhil
6	AVIRAL GUPTA	16052	CSE	Aviral	Aviral	Aviral	Aviral	Aviral	Aviral
7	AYUSH ABHAY	16054	CSE	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush
8	CHIRAG MITTAL	16059	CSE	Chirag	Chirag	Chirag	Chirag	Chirag	Chirag
9	JANVI KARIR	16086	CSE	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi
10	KHYATI JHA	16095	CSE	Khyati	Khyati	Khyati	Khyati	Khyati	Khyati
11	OMVEER PANWAR	16118	CSE	Omveer	Omveer	Omveer	Omveer	Omveer	Omveer
12	PRAKHAR DUBEY	16124	CSE	Prakhar	Prakhar	Prakhar	Prakhar	Prakhar	Prakhar
13	PRASHANT DIXIT	16125	CSE	Prashant	Prashant	Prashant	Prashant	Prashant	Prashant
14	SHALU KUMARI	16161	CSE	Shalu	Shalu	Shalu	Shalu	Shalu	Shalu
15	SHAURYA CHAUHAN	16162	CSE	Shaurya	Shaurya	Shaurya	Shaurya	Shaurya	Shaurya
16	SHRUTI MISHRA	16168	CSE	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti
17	VANSHIT GUPTA	16193	CSE	Vanshit	Vanshit	Vanshit	Vanshit	Vanshit	Vanshit
18	NISHITA SHARMA	16294	CSIT	Nishita	Nishita	Nishita	Nishita	Nishita	Nishita
19	SUMIT SINHA	16295	CSIT	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit
20	KARTHIKEY SHARMA	16301	CSIT	Karthikey	Karthikey	Karthikey	Karthikey	Karthikey	Karthikey
21	RASHMITA BISWAS	16319	CSIT	Rashmita	Rashmita	Rashmita	Rashmita	Rashmita	Rashmita
22	REYMAN SHARMA	16320	CSIT	Reyman	Reyman	Reyman	Reyman	Reyman	Reyman
23	UDHANSHU RANJAN DWIVEDI	16332	CSIT	Udhan	Udhan	Udhan	Udhan	Udhan	Udhan
24	JASMEET SINGH	16333	CSIT	Jasmeet	Jasmeet	Jasmeet	Jasmeet	Jasmeet	Jasmeet
25	ADITYA PAL	16202	IT	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
26	JYOTI KUMARI	16219	IT	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
27	KUNAL	16222	IT	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal
28	VIVEK KUMAR	16247	IT	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek
29	ADANAN WARIS ASHRAF	16344	AIML	Adanan	Adanan	Adanan	Adanan	Adanan	Adanan
30	ABHISHEK YADAV	16348	AIML	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
31	KARN SARTHA BISHT	16376	AIML	Karn	Karn	Karn	Karn	Karn	Karn



32	KUNAL	16384	AIML	Kunal	Kunal	Kunal	Kunal	Kunal	Kunal
33	JAYPRAKASH	16386	AIML	Jaysh	Jaysh	Jaysh	Jaysh	Jaysh	Jaysh
34	PIYUSH	16390	AIML	Piyush	Piyush	Piyush	Piyush	Piyush	Piyush
35	NIKHIL SHARMA	16549	ECE	Nal	Nal	Nal	Nal	Nal	Nal
36	NIKHIL SHRIVASTAV	16551	ECE	Nal	Nal	Nal	Nal	Nal	Nal
37	RAHUL SAHU	16556	ECE	Nal	Nal	Nal	Nal	Nal	Nal
38	SAPTARSI PAL	16557	ECE	Nal	Nal	Nal	Nal	Nal	Nal
39	SIOY FARNANDIZ	16570	ECE	Nal	Nal	Nal	Nal	Nal	Nal
40	LAKSHAY KALRA	16576	ECE	Nal	Nal	Nal	Nal	Nal	Nal
41	UJWAL KUMAR	16578	ECE	Nal	Nal	Nal	Nal	Nal	Nal
42	HARI OM	16589	ECE	Nal	Nal	Nal	Nal	Nal	Nal
43	HARSH KUMAR	16591	ECE	Nal	Nal	Nal	Nal	Nal	Nal
44	HIMANI MANCHANDA	16596	ECE	Nal	Nal	Nal	Nal	Nal	Nal
45	KHUSHI KUMARI	16598	ECE	Nal	Nal	Nal	Nal	Nal	Nal
46	SOMYA SINHA	16603	EEE	Nal	Nal	Nal	Nal	Nal	Nal
47	DEEPAK KUMAR	16613	EEE	Nal	Nal	Nal	Nal	Nal	Nal
48	TARUN KUMAR	16615	EEE	Nal	Nal	Nal	Nal	Nal	Nal
49	CHARU NAITHANI	16624	EEE	Nal	Nal	Nal	Nal	Nal	Nal
50	SHIVAM MISHRA	16632	EEE	Nal	Nal	Nal	Nal	Nal	Nal
51	VISHAL	16636	EEE	Nal	Nal	Nal	Nal	Nal	Nal
52	ROUNAK KUMAR	16482	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
53	HITEN SINGH	16505	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
54	KESHAV AWASTHI	16507	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
55	GOLDY KAUR	16538	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
56	ARCHNA JHA	16542	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
57	RAHUL MAURYA	16550	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
58	PARITOSH KUMAR	16552	ECZ	Nal	Nal	Nal	Nal	Nal	Nal
59	SANSKAR MAURYA	16661	ME	Nal	Nal	Nal	Nal	Nal	Nal
60	BABLU KUMAR DAS	16669	ME	Nal	Nal	Nal	Nal	Nal	Nal
61	AMAN	16677	ME	Nal	Nal	Nal	Nal	Nal	Nal
62	AMIT KUMAR JHA	16678	ME	Nal	Nal	Nal	Nal	Nal	Nal
63	CHANDRASHEKHAR AJAD	16685	ME	Nal	Nal	Nal	Nal	Nal	Nal
64	DEEPAK KUMAR	16687	ME	Nal	Nal	Nal	Nal	Nal	Nal
65	SHIVAM MAURYA	16693	ME	Nal	Nal	Nal	Nal	Nal	Nal

Rajat Kumar  
Co-ordinator  
Dr. Rajat Kumar

Director

Head of the Department  
Dr. Pawan Kumar Sharma

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## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

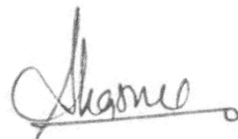
*This is to certify that*

**Mr./Ms.** ABHINAV NEGI **of** CSE Dept. (1st Year)

*has successfully completed six days*

*Student Development Program on*

*“ Ethical Hacking ” from 6th-11th September, 2021*



**Dr. Pawan Kumar Sharma**  
*Co-ordinator*



**Director**  
**Dronacharya Group of Institutions**  
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**Prof. (Dr.) Arpita Gupta**  
*Director*





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## **Student Development Program**

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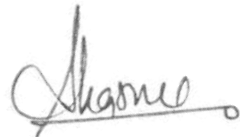
*This is to certify that*

**Mr./Ms.** ABHIRAJ KUMAR **of** CSE Dept. (1st Year)

*has successfully completed six days*

*Student Development Program on*

*“ Ethical Hacking ” from 6th-11th September, 2021*



**Dr. Pawan Kumar Sharma**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*  
Dronacharya Group of Institutions  
Greater Noida-201306

## **Short-Term Development Program (SDP) on Ethical Hacking**

**Course:** Certificate course on Ethical Hacking

**Date:** 6th-11th September 2021

**Duration:** 6 Day

**Target Students:** Applied Science And Humanities

### **Objective**

Learn to build dynamic, database-driven web applications using Java. Gain hands-on experience with front-end design, server-side logic, and integration with databases.

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### ☐ **Course Modules**

#### **1. Introduction to Web Development**

- How the web works
- Web architecture: client-server model
- Tools: JDK, Eclipse, Tomcat, MySQL

#### **2. Front-End Basics**

- HTML5 & CSS3
- JavaScript fundamentals
- Responsive design principles

#### **3. Core Java Programming**

- Object-Oriented Programming
- Exception handling & file I/O
- Collections and basic algorithms

#### **4. Java Web Components**

- Servlets & servlet lifecycle
- JSP (JavaServer Pages)
- Request/response, sessions, cookies

#### **5. Database Integration (JDBC)**

- Connecting Java to databases



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- SQL basics: CRUD operations
- Prepared statements and validation

## **6. Application Structure (MVC)**

- Model-View-Controller architecture
- Integrating JSP + Servlets + JDBC
- Building functional, modular apps

## **7. Final Project & Deployment**

- End-to-end application
  - Deployment on Apache Tomcat
  - Project documentation and demo
- 



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### ☐ **Assessment Process**

<input type="checkbox"/> <b>Component</b>	<input type="checkbox"/> <b>Weight</b>
Module Quizzes	15%
Lab Assignments	25%
Capstone Project	30%
Debugging Challenges	15%
Viva & Presentation	15%

---

### ☐ **Certification Criteria**

- Score at least **50% in each component**
- **75% attendance** mandatory
- Capstone project must be completed and presented



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## Short-Term Development Program (SDP) on App Development and Deployment on AWS Cloud

**Course:** Certificate Program on App Development and Deployment on AWS Cloud

**Date:** 04th-9th October 2021

**Duration:** 6 Day

**Target Students:** CSE/CSIT/ECS/IT/AIML

### Course Objective

- Learn to develop web/mobile applications.
- Understand AWS services for compute, storage, database, and deployment.
- Deploy and manage real-time applications on the AWS cloud platform.

---

### ☐ Course Modules

#### ☐ Module 1: Cloud & AWS Essentials

- Cloud Computing Overview
- AWS Architecture & Core Services
- IAM, Regions & Availability Zones

#### ☐ Module 2: Application Development Basics

- Front-end: HTML, CSS, JavaScript (or mobile framework)
- Back-end: Node.js, Java, or Python basics
- REST APIs and App Structure

#### ☐ Module 3: Compute Services

- EC2 Instance Launch & Configuration
- AWS Lambda (Serverless Functions)
- Elastic Beanstalk for Web App Deployment

#### ☐ Module 4: Storage & Databases

- Amazon S3 for File Storage & Hosting
- Amazon RDS & DynamoDB Integration
- Data Handling and Security

#### ☐ Module 5: Security & Networking



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- VPC Concepts
- Security Groups & Roles
- API Gateway and HTTPS Access

☐ **Module 6: CI/CD and Monitoring**

- CodeCommit, CodeBuild, CodeDeploy
- Setting up CI/CD Pipeline
- CloudWatch Logs & Alerts

☐ **Module 7: Capstone Project**

- Build a Full App with Cloud Backend
  - Deploy & Host on AWS
  - Final Demo + Code Review
- 



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## ☐ **Assessment Process**

- ☐ **Module Quizzes** – 10%
  - ☐ **Hands-on Labs** – 30%
  - ☐ **Capstone Project (Live Deployment)** – 35%
  - ☐ **Debugging Tasks** – 15%
  - ☐ **Final Viva/Presentation** – 10%
- 

## ☐ **Certification Criteria**

- Minimum **50% score** in each evaluation area
- At least **75% attendance**
- Completion & deployment of the **Capstone Project**



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## Short-Term Development Program (SDP) "Introduction to Emerging Mechanical Fields"

**Course:** Certificate Program on "Introduction to Emerging Mechanical Fields"

**Date:** 08th-13th November 2021

**Duration:** 6 Day

**Target Students:** Mechanical Engineering

### Course Modules

Module No.	Module Title	Key Topics Covered	Duration
1	Introduction to Emerging Trends in Mechanical Fields	Industry 4.0, Interdisciplinary approaches, Global trends	1 Week
2	Mechatronics and Automation	Sensors, actuators, microcontrollers, PLC basics, robotics integration	1.5 Weeks
3	Additive Manufacturing (3D Printing)	FDM, SLA, SLS, materials, 3D printing workflow, applications	1.5 Weeks
4	AI and Data Analytics in Mechanical Engineering	Basics of AI/ML, predictive maintenance, smart manufacturing	1 Week
5	Renewable and Sustainable Energy Systems	Solar, wind, hybrid systems, efficiency, integration with mechanical systems	1.5 Weeks
6	Advanced and Smart Materials	Composites, shape memory alloys, piezoelectric materials, advanced material testing	1 Week
7	Sustainable Manufacturing Practices	Green design, LCA, waste minimization, energy-efficient processes	1 Week
8	Future Career Pathways & Industry Applications	Skill mapping, industry expectations, startup & research opportunities	0.5 Week

□



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## Evaluation Structure

Component	Weightage	Type	Description
Module-end Quizzes	20%	MCQs	Short quizzes at the end of each module
Assignments	20%	Analytical/Written	Small tasks including design exercises, problem-solving, material studies
Mini Project	30%	Applied Project	Domain-based project (e.g., design a green system, simulate automation flow)
Final Exam	20%	Objective + Subjective	Covers all modules: theory + application-based questions
Participation & Interaction	10%	Forum/Group Activities	Online discussions, peer reviews, feedback on projects

### ☐ Certification Criteria

- Minimum 60% aggregate score
- Completion of at least 80% of modules
- Submission of final project



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# DRONACHARYA Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

17th-22nd January 2022

Skill Development Program on Hybrid & Electric Vehicles									
Attendance Sheet									
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	NEHA AGARWAL	2002300210072	EEE	Neel	Neel	Neel	Neel	Neel	Neel
2	PRIYA AGARWAL	2002300219137	EEE	Priya	Priya	Priya	Priya	Priya	Priya
3	ANKITA SINGH	2002300219003	EEE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
4	RAVI VALMIKI	2002300217570	EEE	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
5	RAHUL MEENA	2002300216587	EEE	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
6	ANITA VALMIKI	2002300219189	EEE	Anita	Anita	Anita	Anita	Anita	Anita
7	ANKITA CHAUDHARY	2002300213752	EEE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
8	POOJA GUPTA	2002300214806	EEE	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
9	POOJA SINGH	2002300219009	EEE	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
10	AYUSH SHUBHAM	2102300219001	EEE	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush
11	SUMIT PANDEY	2102300218001	EEE	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit
12	NEHA KUMARI	2102300219002	EEE	Neel	Neel	Neel	Neel	Neel	Neel
13	NISHANT KUMAR	2102300219003	EEE	Nishant	Nishant	Nishant	Nishant	Nishant	Nishant

  
Co-ordinator

Mr. Kaustubh Kumar Shukla

  
Head of the Department

Dr. Sanghamitra V. Arora



Director

Dronacharya Group of Institutions  
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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. PRIYA AGARWAL of EEE Dept. (2nd Year)**

*has successfully completed six days*

*Student Development Program on “Hybrid & Electric Vehicles”*

*from 17th-22nd January 2022.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ANITA VALMIKI **of** EEE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “Hybrid & Electric Vehicles”*

*from 17th-22nd January 2022.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
Greater Noida-201306

## **Short-Term Development Program (SDP) on Certification Course on Advanced Java**

**Course:** Certification Course on Advanced Java

**Date:** 17th-22nd January 2022

**Duration:** 6 Day

**Target Students:** CSE/CSIT/IT/ECS/AIML

### **Course Modules**

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#### **Module 1: Java Review & OOP Essentials (Week 1)**

- Recap of Core Java basics
  - Classes, objects, inheritance, polymorphism, encapsulation, abstraction
  - Exception handling (try-catch, throws, custom exceptions)
- 

#### **Module 2: Multithreading & Concurrency (Week 2)**

- Creating and managing threads
  - Thread lifecycle and synchronization
  - Executor framework, concurrent collections
- 

#### **Module 3: Java Collections Framework (Week 3)**

- List, Set, Map, Queue interfaces
  - Iterators, generics, lambda expressions
  - Collections.sort, Comparable vs Comparator
- 

#### **Module 4: File Handling & I/O Streams (Week 4)**

- Byte & character streams
- FileReader, FileWriter, BufferedReader, Scanner
- Serialization and deserialization



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### **Module 5: JDBC & Database Connectivity (Week 5)**

- Connecting Java with MySQL/Oracle
  - CRUD operations using JDBC
  - PreparedStatement, CallableStatement
  - Transactions and connection pooling basics
- 

### **Module 6: Java Networking & Sockets (Week 6)**

- Basics of networking (TCP/IP)
  - ServerSocket and Socket classes
  - Building client-server applications
- 

### **Module 7: Java Servlets & JSP (Week 7–8)**

- Introduction to web development with Java EE
  - Servlet lifecycle, request/response handling
  - JSP fundamentals, JSP scripting elements
  - MVC architecture overview
- 

### **Module 8: Final Project & Deployment (Week 9–10)**

- Build a full-stack Java web application
  - Front-end integration (HTML/CSS/JS or JSP)
  - Backend with JDBC and Servlet
  - Deployment on Apache Tomcat or any cloud platform
- 



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## □ Evaluation Structure

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- □ **Weekly Quizzes** – 15%
    - MCQs based on weekly content
    - Timed, auto-evaluated quizzes
  - □ **Hands-on Assignments** – 25%
    - Coding exercises per module (file handling, DB connection, multithreading, etc.)
    - Submitted via GitHub or LMS
  - □ **Mini Projects (x2)** – 20%
    - Servlet-based mini application (e.g., login system)
    - Networking-based tool (e.g., chat server)
  - □ **Final Capstone Project** – 30%
    - End-to-end application demonstrating all modules
    - Includes code, documentation, and deployment steps
  - □ **Participation & Peer Review** – 10%
    - Code reviews, discussion forum, collaborative coding
- 

## □ Certification Requirements

- Minimum of 60% overall score
- Submission of all major assignments
- Completion of capstone project



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# DRONACHARYA Group of Institutions

B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technological University (AKTU), Lucknow

DATE: 17th-22nd January 2022

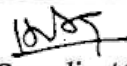
## Certification Course on Advanced Java Attendance Sheet

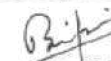
S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AADARSH SINGH BHANDARI	2002300100001	CSE	Present	Present	Present	Present	Present	Present
2	ADITYA KUMAR	2002300100011	CSE	Present	Present	Present	Present	Present	Present
3	AJIT KUMAR	2002300100015	CSE	Present	Present	Present	Present	Present	Present
4	ANKITA	2002300100032	CSE	Present	Present	Present	Present	Present	Present
5	ANSHIKA BISHT	2002300100035	CSE	Present	Present	Present	Present	Present	Present
6	ANURAG GOEL	2002300100037	CSE	Present	Present	Present	Present	Present	Present
7	AYUSH RAJ	2002300100049	CSE	Present	Present	Present	Present	Present	Present
8	CHINTU KUMAR	2002300100055	CSE	Present	Present	Present	Present	Present	Present
9	DHRUV SHARMA	2002300100061	CSE	Present	Present	Present	Present	Present	Present
10	GAGAN ARYA	2002300100063	CSE	Present	Present	Present	Present	Present	Present
11	GAURAV KUMAR CHAUBEY	2002300100064	CSE	Present	Present	Present	Present	Present	Present
12	GAURAV SEN	2002300100065	CSE	Present	Present	Present	Present	Present	Present
13	ISHAAN GAMBHIR	2002300100075	CSE	Present	Present	Present	Present	Present	Present
14	JAYSHREE UPADHYAY	2002300100078	CSE	Present	Present	Present	Present	Present	Present
15	JHANVI GUPTA	2002300100079	CSE	Present	Present	Present	Present	Present	Present
16	KARAN JOSHI	2002300100080	CSE	Present	Present	Present	Present	Present	Present
17	KHUSHI JAIN	2002300100083	CSE	Present	Present	Present	Present	Present	Present
18	MUKUL PANWAR	2002300100100	CSE	Present	Present	Present	Present	Present	Present
19	NEERAJ SHARMA	2002300100103	CSE	Present	Present	Present	Present	Present	Present
20	NIHARIKA CHAUDHARY	2002300100105	CSE	Present	Present	Present	Present	Present	Present
21	NITESH KUMAR SINGH	2002300100107	CSE	Present	Present	Present	Present	Present	Present
22	PEEHU SINGH	2002300100109	CSE	Present	Present	Present	Present	Present	Present
23	PRINCE RAJ	2002300100119	CSE	Present	Present	Present	Present	Present	Present
24	RAGHWENDRA KUMAR PANDEY	2002300100125	CSE	Present	Present	Present	Present	Present	Present
25	RAHUL	2002300100127	CSE	Present	Present	Present	Present	Present	Present
26	RAJAT RAWAT	2002300100129	CSE	Present	Present	Present	Present	Present	Present
27	RASHITA GUGLANI	2002300100131	CSE	Present	Present	Present	Present	Present	Present
28	SAKSHI RAWAT	2002300100140	CSE	Present	Present	Present	Present	Present	Present
29	SHAILESH BHUSHAN CHAUDHARY	2002300100145	CSE	Present	Present	Present	Present	Present	Present
30	SHASHANK YADAV	2002300100149	CSE	Present	Present	Present	Present	Present	Present
31	SURJEET KUMAR	2002300100170	CSE	Present	Present	Present	Present	Present	Present
32	TANYA YADAV	2002300100175	CSE	Present	Present	Present	Present	Present	Present
33	TIYA BISLA	2002300100178	CSE	Present	Present	Present	Present	Present	Present
34	VISHAL CHAUHAN	2002300100190	CSE	Present	Present	Present	Present	Present	Present



35	NAVNEET KUMAR	2002300109010	CSE	Nuskn	Nuskn	Nuskn	Nuskn	Nuskn	Nuskn
36	SHIKHA LAVANIYA	2002300109013	CSE	Sulac	Sulac	Sulac	Sulac	Sulac	Sulac
37	VINEET RANJAN	2002300109019	CSE	Vneet	Vneet	Vneet	Vneet	Vneet	Vneet
38	ASHUTOSH KUMAR SINGH	2002300100040	CSE	Lshkn	Lshkn	Lshkn	Lshkn	Lshkn	Lshkn
39	MOHAN CHAUDHARY	2002300100097	CSE	Mechn	Mechn	Mechn	Mechn	Mechn	Mechn
40	SHASHANK PANDEY	2002300100148	CSE	Sway	Sway	Sway	Sway	Sway	Sway
41	BHUMIKA BANSAL	2002300100052	CSE	Phlca	Phlca	Phlca	Phlca	Phlca	Phlca
42	NARESH KUMAR	2002300100102	CSE	Neresh	Neresh	Neresh	Neresh	Neresh	Neresh
43	SHIVAM BHATI	2002300100150	CSE	Shcny	Shcny	Shcny	Shcny	Shcny	Shcny
44	NIKHIL RANA	2102300109011	CSE	Nkhil	Nkhil	Nkhil	Nkhil	Nkhil	Nkhil
45	TANISH VARSHNEY	2102300109017	CSE	Tanish	Tanish	Tanish	Tanish	Tanish	Tanish
46	ANUTOSH GAUTAM	2102300109004	CSE	Nshkn	Nshkn	Nshkn	Nshkn	Nshkn	Nshkn
47	ADITYA KARAN	2102300109002	CSE	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
48	AARYAN BHARDWAJ	2002300110001	CSIT	Aaryan	Aaryan	Aaryan	Aaryan	Aaryan	Aaryan
49	ADITYA SINGH	2002300110003	CSIT	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
50	AMAN YADAV	2002300110005	CSIT	Aman	Aman	Aman	Aman	Aman	Aman
51	AVISHI JAIN	2002300110008	CSIT	Avishi	Avishi	Avishi	Avishi	Avishi	Avishi
52	NITISH KUMAR	2002300110026	CSIT	Nitish	Nitish	Nitish	Nitish	Nitish	Nitish
53	PRIYANSHU PANDEY	2002300110030	CSIT	Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu
54	RITU DAYAL	2002300110033	CSIT	Ritu	Ritu	Ritu	Ritu	Ritu	Ritu
55	ROHITASH KUMAR	2002300110034	CSIT	Rohitash	Rohitash	Rohitash	Rohitash	Rohitash	Rohitash
56	SHIVAM SHARMA	2002300110038	CSIT	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam
57	SHIVAM VASHISTHA	2002300110039	CSIT	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam
58	SHUBH SINGH	2002300110040	CSIT	Shubh	Shubh	Shubh	Shubh	Shubh	Shubh
59	SIDHANT YADAV	2002300110042	CSIT	Sidhant	Sidhant	Sidhant	Sidhant	Sidhant	Sidhant
60	SOMYA ROUT	2002300110043	CSIT	Somya	Somya	Somya	Somya	Somya	Somya
61	VISHAL CHAUHAN	2002300110052	CSIT	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
62	MEHUL KASHYAP	2002300119001	CSIT	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul
63	HARSH JAIN	2002300110013	CSIT	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
64	SUMIT SHARMA	2002300110114	CSIT	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit
65	JYOTI JADHAV	2002300114924	CSIT	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
66	DEEPESH AGARWAL	2002300114050	CSIT	Deepesh	Deepesh	Deepesh	Deepesh	Deepesh	Deepesh
67	ANITA MISHRA	2002300110130	CSIT	Anita	Anita	Anita	Anita	Anita	Anita
68	PRINCE HANS	2102300119007	CSIT	Prince	Prince	Prince	Prince	Prince	Prince
69	OMKAR	2102300119005	CSIT	Omkar	Omkar	Omkar	Omkar	Omkar	Omkar
70	ADITYA KUMAR	2002300100012	IT	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
71	AYUSH KUMAR	2002300100047	IT	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush
72	SHUBHAM KUMAR	2002300100163	IT	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
73	AAYUSH MISHRA	2002300130001	IT	Aayush	Aayush	Aayush	Aayush	Aayush	Aayush
74	ANIKET KUMAR	2002300130003	IT	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket

75	DEEKSHA GUPTA	2002300130006	IT	Deeksha	Deeksha	Deeksha	Deeksha	Deeksha	Deeksha
76	HARSHVARDHAN NATH TIWARY	2002300130007	IT	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
77	MAHESH YADAV	2002300130009	IT	Mahe	Mahe	Mahe	Mahe	Mahe	Mahe
78	MD MUSHARAF KAMAL	2002300130010	IT	Muham	Muham	Muham	Muham	Muham	Muham
79	RAVI SHANKAR LAWANIYA	2002300130011	IT	Rao	Rao	Rao	Rao	Rao	Rao
80	RESHMA	2002300130012	IT	Reshma	Reshma	Reshma	Reshma	Reshma	Reshma
81	ROSHAN KUMAR	2002300130013	IT	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan
82	SHASHANK	2002300130015	IT	Shank	Shank	Shank	Shank	Shank	Shank
83	DHARMENDRA SINGH	2002300130020	IT	Dharm	Dharm	Dharm	Dharm	Dharm	Dharm
84	NITISH KUMAR	2002300130021	IT	Nitish	Nitish	Nitish	Nitish	Nitish	Nitish
85	UMAKANT SHARMA	2002300130024	IT	Umkant	Umkant	Umkant	Umkant	Umkant	Umkant
86	RADHA	2102300139001	IT	Radha	Radha	Radha	Radha	Radha	Radha

  
Co-ordinator  
Mr. Hridesh Gupta

  
Head of the Department  
Dr. Bipin Pandey

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms. \_\_\_\_\_ ANKITA \_\_\_\_\_ of CSIT Dept. (2nd Year)***

***has successfully Participated in Six days SDP on “Advanced Java”***

***on 17th -to 22nd January, 2022.***



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms. \_\_\_\_\_ RITU DAYAL \_\_\_\_\_ of CSIT Dept. (2nd Year)***

***has successfully Participated in Six days SDP on “Advanced Java”***

***on 17th -to 22nd January, 2022.***



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



## **Short-Term Development Program (SDP) on Skill Development program on**

**Cloud Computing Course:** Skill Development program on Cloud Computing

**Date:** 06th-11th December 2021

**Duration:** 6 Day

**Target Students:** CSE/CSIT/ECS/IT/AIML

## **Course Overview**

This skill development program is designed to provide participants with a foundational and practical understanding of **cloud computing technologies**. It begins with core concepts and advances to hands-on implementation using popular cloud platforms such as **Amazon Web Services (AWS)**, **Microsoft Azure**, and **Google Cloud Platform (GCP)**.

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## **□ Course Modules**

### **1. Introduction to Cloud Computing**

Participants will be introduced to the fundamental concepts of cloud computing, including service models (IaaS, PaaS, SaaS) and deployment models (Public, Private, Hybrid, Community). Benefits and risks of cloud adoption are explored through case-based learning.

### **2. Virtualization Essentials**

This module covers the backbone of cloud infrastructure—**virtualization**. Learners will explore hypervisors, virtual machines, and containers, and understand how these technologies enable scalability and flexibility in cloud environments.

### **3. Exploring Cloud Platforms**

A comparative look at AWS, Azure, and GCP. Participants get familiar with navigating cloud consoles, setting up accounts, and utilizing free-tier resources to build their first cloud environment.

### **4. Core Cloud Services**

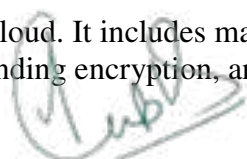
The focus here is on compute, storage, and networking. Students will learn to launch virtual servers (EC2, Azure VM), manage cloud storage (S3, Blob), and configure networks (VPC, subnets, firewalls).

### **5. Cloud Security & Identity Management**

This module addresses the **security architecture** of the cloud. It includes managing user access with IAM, configuring permissions, understanding encryption, and the shared responsibility model.

### **6. DevOps and Automation in the Cloud**

Participants will be introduced to **DevOps culture** and automation tools. Topics

  
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include CI/CD pipelines, infrastructure as code using tools like Terraform and CloudFormation, and deploying code using automated workflows.

7. **Hands-on Practice and Cloud Labs**

This module provides hands-on experience through guided labs and assignments. Participants will deploy websites, configure backup strategies, monitor cloud services, and perform real-time simulations.

8. **Capstone Project and Career Guidance**

The final module involves building and presenting a multi-tier cloud application that incorporates all previous modules. The program concludes with guidance on certification paths (e.g., AWS Certified Solutions Architect, Azure Fundamentals), career tracks, and portfolio development.

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## □ Evaluation Structure

To ensure a balance between theory and practical application, participants will be evaluated through:

- **Weekly Quizzes (20%)** — Multiple-choice tests after each module to reinforce concepts.
  - **Lab-Based Assignments (30%)** — Real-world tasks such as launching a VM, configuring IAM, and deploying cloud applications.
  - **Case Study Analysis (15%)** — Participants will analyze and document a real-world cloud use case from industry.
  - **Final Capstone Project (25%)** — An end-to-end project demonstrating the deployment of a scalable, secure cloud solution.
  - **Engagement and Peer Interaction (10%)** — Includes participation in discussions, group activities, and peer reviews.
- 

## □ Certification Requirements

To earn the certification, participants must:

- Complete all modules and assignments
- Score a minimum of 60% across all evaluations
- Successfully submit and demonstrate the final capstone project



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# DRONACHARYA Group of Institutions

B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 06th-11th December 2021

## Skill Development program on Cloud Computing Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AKHIL PATWAL	2002300100017	CSE	Drish	Drish	Drish	Drish	Drish	Drish
2	AKRISHT PATHAK	2002300100018	CSE	Drish	Drish	Drish	Drish	Drish	Drish
3	AMIT PAL	2002300100023	CSE	Drish	Drish	Drish	Drish	Drish	Drish
4	ANKIT JEENA	2002300100027	CSE	Drish	Drish	Drish	Drish	Drish	Drish
5	ANKIT KUMAR	2002300100028	CSE	Drish	Drish	Drish	Drish	Drish	Drish
6	ANKUR SHARMA	2002300100033	CSE	Drish	Drish	Drish	Drish	Drish	Drish
7	ANOOB SHARMA	2002300100034	CSE	Drish	Drish	Drish	Drish	Drish	Drish
8	ANSHUL GUPTA	2002300100036	CSE	Drish	Drish	Drish	Drish	Drish	Drish
9	AYUSH SINGH	2002300100050	CSE	Drish	Drish	Drish	Drish	Drish	Drish
10	BHASKAR CHAUHAN	2002300100051	CSE	Drish	Drish	Drish	Drish	Drish	Drish
11	BHUPENDER SINGH	2002300100053	CSE	Drish	Drish	Drish	Drish	Drish	Drish
12	DEEP N RAWAL	2002300100057	CSE	Drish	Drish	Drish	Drish	Drish	Drish
13	HIMANSHU	2002300100072	CSE	Drish	Drish	Drish	Drish	Drish	Drish
14	HIMANSHU SARASWAT	2002300100073	CSE	Drish	Drish	Drish	Drish	Drish	Drish
15	JASMEET SETHI	2002300100076	CSE	Drish	Drish	Drish	Drish	Drish	Drish
16	LOVISH KHANNA	2002300100090	CSE	Drish	Drish	Drish	Drish	Drish	Drish
17	MAHENDER CHAUDHARY	2002300100091	CSE	Drish	Drish	Drish	Drish	Drish	Drish
18	MD FAIZAN SIDDIQUI	2002300100096	CSE	Drish	Drish	Drish	Drish	Drish	Drish
19	MONALISA SAMAL	2002300100099	CSE	Drish	Drish	Drish	Drish	Drish	Drish
20	PRAJWAL CHAUHAN	2002300100113	CSE	Drish	Drish	Drish	Drish	Drish	Drish
21	PRARTHANA JHA	2002300100115	CSE	Drish	Drish	Drish	Drish	Drish	Drish
22	PREYANSHU KUMAR	2002300100117	CSE	Drish	Drish	Drish	Drish	Drish	Drish
23	PRINCE MISHRA	2002300100118	CSE	Drish	Drish	Drish	Drish	Drish	Drish
24	PRIYANKA VAISHNAV	2002300100120	CSE	Drish	Drish	Drish	Drish	Drish	Drish
25	PRIYANSHU KUMAR	2002300100121	CSE	Drish	Drish	Drish	Drish	Drish	Drish
26	PRIYANSHU KUMAR	2002300100122	CSE	Drish	Drish	Drish	Drish	Drish	Drish
27	RAGHAV VERMA	2002300100124	CSE	Drish	Drish	Drish	Drish	Drish	Drish
28	RAGINI THAKUR	2002300100126	CSE	Drish	Drish	Drish	Drish	Drish	Drish
29	RAHUL RAI	2002300100128	CSE	Drish	Drish	Drish	Drish	Drish	Drish
30	RAVNEEK Kaur	2002300100132	CSE	Drish	Drish	Drish	Drish	Drish	Drish
31	RITIK SHUKLA	2002300100133	CSE	Drish	Drish	Drish	Drish	Drish	Drish



32	ROHIT KUMAR YADAV	2002300100136	CSE	Act	Act	Act	Act	Act	Act
33	SACHIN RAO	2002300100137	CSE	Pass	Pass	Pass	Pass	Pass	Pass
34	SAHIL BHATIA	2002300100139	CSE	Pass	Pass	Pass	Pass	Pass	Pass
35	SANJALI KUMARI	2002300100141	CSE	Pass	Pass	Pass	Pass	Pass	Pass
36	SHAIKENDRA KUMAR	2002300100144	CSE	Pass	Pass	Pass	Pass	Pass	Pass
37	SHIVAM VERMA	2002300100152	CSE	Pass	Pass	Pass	Pass	Pass	Pass
38	SHIVANSHU MISHRA	2002300100155	CSE	Pass	Pass	Pass	Pass	Pass	Pass
39	SHRAVI SINGH	2002300100157	CSE	Pass	Pass	Pass	Pass	Pass	Pass
40	SHUBHAM BHUGRA	2002300100160	CSE	Pass	Pass	Pass	Pass	Pass	Pass
41	TANISH RATHORE	2002300100173	CSE	Pass	Pass	Pass	Pass	Pass	Pass
42	VAIBHAV SAXENA	2002300100184	CSE	Pass	Pass	Pass	Pass	Pass	Pass
43	VAIBHAV SINGH RAWAT	2002300100185	CSE	Pass	Pass	Pass	Pass	Pass	Pass
44	VARUN CHAUHAN	2002300100186	CSE	Pass	Pass	Pass	Pass	Pass	Pass
45	VARUN SHARMA	2002300100187	CSE	Pass	Pass	Pass	Pass	Pass	Pass
46	VISHAL CHAUHAN	2002300100190	CSE	Pass	Pass	Pass	Pass	Pass	Pass
47	YASH BHANDARI	2002300100193	CSE	Pass	Pass	Pass	Pass	Pass	Pass
48	YASH KAPOOR	2002300100195	CSE	Pass	Pass	Pass	Pass	Pass	Pass
49	PRABHAT TIWARI	2002300109011	CSE	Pass	Pass	Pass	Pass	Pass	Pass
50	VINAYAK MISHRA	2002300100189	CSE	Pass	Pass	Pass	Pass	Pass	Pass
51	NAYAB DARAKHSHAN	2102300109010	CSE	Pass	Pass	Pass	Pass	Pass	Pass
52	BHAVYA PALWAL	2002300110009	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
53	NITIN ADHIKARI	2002300110025	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
54	PANKAJ KHANI	2002300110028	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
55	RANJEET TIWARI	2002300110032	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
56	SWAPNIL PANDEY	2002300110045	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
57	SWATI SINGH	2002300110046	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
58	TANISH	2002300110048	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
59	NITESH PANDEY	2002300110024	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
60	DEEPAK SHARMA	2002300110087	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
61	ANIL KUMAR	2002300114387	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
62	SUMIT RAJPUT	2002300110814	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
63	SWATI BISHT	2002300110070	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
64	RAKESH RAJPUT	2002300113089	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
65	AMIT CHAUDHARY	2002300119378	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
66	DEEPESH AGARWAL	2002300114050	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
67	ANITA MISHRA	2002300110130	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
68	SHREYASH VATSA	2102300119008	CSIT	Pass	Pass	Pass	Pass	Pass	Pass
69	VISHAL CHAUHAN	2002300100191	IT	Pass	Pass	Pass	Pass	Pass	Pass
70	ABHISHEK CHOUDHARY	2002300130002	IT	Pass	Pass	Pass	Pass	Pass	Pass
71	ANUJ SINGH	2002300130004	IT	Pass	Pass	Pass	Pass	Pass	Pass

72	KM SANJANA KUMARI	2002300130008	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
73	SHAIENDRA CHAURASIYA	2002300130014	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
74	SUDHANSHU RANJAN	2002300130016	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
75	DHARMENDRA SINGH	2002300130020	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
76	NITISH KUMAR	2002300130021	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
77	SHAISTA CHOUDHARY	2002300130022	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
78	UMAKANT SHARMA	2002300130024	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

*[Signature]*

Co-ordinator

Ms. Bhanu Bhardwaj

*[Signature]*

Head of the Department

Dr. Bipin Pandey

*[Signature]*

Director

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## **Short-Term Development Program (SDP) on Business Intelligence and Data Analytics with Power BI or Tableau**

**Course:** Business Intelligence and Data Analytics with Power BI or Tableau

**Date:** 04th-9th October 2021

**Duration:** 6 Day

**Target Students:** MBA Dept.

### **Program Objective**

To equip learners with the analytical mindset and hands-on expertise to transform raw data into actionable business insights using leading BI tools like **Power BI** or **Tableau**.

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### ☐ **Course Modules**

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#### **Module 1: Introduction to Business Intelligence & Data Analytics**

- What is BI? Role in modern decision-making
  - Data vs. Information vs. Insight
  - Overview of BI tools: Power BI vs. Tableau
  - Case studies of BI in various industries
- 

#### **Module 2: Data Preparation & Cleaning**

- Understanding data sources: Excel, CSV, SQL, web APIs
  - Data import and connection techniques
  - Data profiling and transformation
  - Handling missing data, nulls, duplicates
- 

#### **Module 3: Power Query / Tableau Prep Basics**

- Power Query Editor / Tableau Prep workflows
- M language (Power BI) basics



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- Merging, appending, filtering, pivot/unpivot
  - Automating transformation steps
- 

#### **Module 4: Data Modeling & Relationships**

- Star vs. Snowflake schema
  - Setting relationships between tables
  - Data normalization and denormalization
  - Creating calculated columns and measures (DAX/Calculated Fields)
- 

#### **Module 5: Data Visualization & Dashboard Design**

- Best practices in data visualization
  - Creating bar, line, pie, funnel, and map charts
  - Custom visuals and formatting
  - Interactive dashboards with filters/slicers/parameters
- 

#### **Module 6: Advanced Analytics & DAX/Table Calculations**

- Introduction to DAX (Power BI) or LOD expressions (Tableau)
  - Time intelligence functions
  - KPIs, ranking, cumulative metrics
  - Forecasting and trendlines
- 

#### **Module 7: Publishing & Sharing Reports**

- Power BI Service / Tableau Public & Tableau Server
  - Report deployment, versioning
  - Scheduled refresh, permissions & sharing options
  - Embedding dashboards in websites or apps
- 

#### **Module 8: Capstone Project & Career Preparation**

- Build a BI dashboard for a real-world business scenario
- Resume and portfolio building with project showcase
- Introduction to BI job roles and certifications
- Power BI / Tableau certification roadmap



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## □ Evaluation Structure

Evaluation Component	Weightage	Details
Weekly Quizzes	20%	Short MCQs to reinforce key BI and tool concepts
Lab Assignments	25%	Data cleaning, visualizations, and analysis tasks using Power BI/Tableau
Mini Project	15%	Dashboard development on a given dataset (sales, HR, finance, etc.)
Final Capstone Project	30%	End-to-end BI solution: Data prep → Model → Visualize → Share
Participation & Peer Review	10%	Forum interaction, feedback on peer dashboards, collaboration

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## □ Certification Requirements

To receive the certificate, learners must:

- Complete all modules and practical exercises
- Score a **minimum of 60%** in the combined evaluation
- Submit and present the final capstone dashboard



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## **Student Training Program (STP) on Introduction to FPGA Design using Xilinx/Altera**

**Course:** Introduction to FPGA Design using Xilinx/Altera

**Date:** 06th-11th December 2021

**Duration:** 6 Day

**Target Students:** ECE

### **Course Module Structure**

<b>Module No.</b>	<b>Title</b>	<b>Topics Covered</b>
1	Introduction to FPGA & HDL	What is an FPGA, Xilinx vs. Altera, HDL basics, simulation vs. synthesis, overview of Verilog/VHDL
2	HDL Programming Basics	Syntax, data types, operators, behavioral modeling, sequential vs. combinational logic, flip-flops, multiplexers
3	FPGA Design Flow	Synthesis, implementation, bitstream generation, constraints, pin mapping, using Vivado/ISE or Quartus
4	Practical Lab – Core Components	Gates, counters, adders, decoders, 7-segment display driver, simulation and implementation
5	FSM & Memory Design	Moore & Mealy state machines, traffic light controller, vending machine FSM, ROM/RAM design basics
6	I/O Interfacing & Project Integration	Switches, LEDs, displays, UART intro, PWM signals, simple peripheral interfacing, project planning
7	Final Project & Deployment	Complete design project (e.g., digital clock, LED matrix, stopwatch), synthesis and on-board implementation, demo presentation

□



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## Evaluation Scheme

Assessment Type	Description	Weightage
Quizzes	Weekly module-based quizzes (MCQs & short answers)	15%
Coding Assignments	Verilog/VHDL design and simulation tasks	25%
Practical Lab Task	FSM or combinational design implementation on actual FPGA board	15%
Capstone Project	Full-cycle FPGA project with documentation and demo	35%
Peer Interaction & Review	Group discussions, peer review, Q&A sessions	10%

### ☐ Certification Requirements

Requirement	Condition
Completion of all assignments and lab sessions	Mandatory
Final project submission and presentation	Mandatory
Minimum overall score for certification	60%



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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 06th-11th December 2021

## Skill Development program on Cloud Computing Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AKHIL PATWAL	2002300100017	CSE	Drish	Drish	Drish	Drish	Drish	Drish
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5	ANKIT KUMAR	2002300100028	CSE	Drish	Drish	Drish	Drish	Drish	Drish
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13	HIMANSHU	2002300100072	CSE	Drish	Drish	Drish	Drish	Drish	Drish
14	HIMANSHU SARASWAT	2002300100073	CSE	Drish	Drish	Drish	Drish	Drish	Drish
15	JASMEET SETHI	2002300100076	CSE	Drish	Drish	Drish	Drish	Drish	Drish
16	LOVISH KHANNA	2002300100090	CSE	Drish	Drish	Drish	Drish	Drish	Drish
17	MAHENDER CHAUDHARY	2002300100091	CSE	Drish	Drish	Drish	Drish	Drish	Drish
18	MD FAIZAN SIDDIQUI	2002300100096	CSE	Drish	Drish	Drish	Drish	Drish	Drish
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24	PRIYANKA VAISHNAV	2002300100120	CSE	Drish	Drish	Drish	Drish	Drish	Drish
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26	PRIYANSHU KUMAR	2002300100122	CSE	Drish	Drish	Drish	Drish	Drish	Drish
27	RAGHAV VERMA	2002300100124	CSE	Drish	Drish	Drish	Drish	Drish	Drish
28	RAGINI THAKUR	2002300100126	CSE	Drish	Drish	Drish	Drish	Drish	Drish
29	RAHUL RAI	2002300100128	CSE	Drish	Drish	Drish	Drish	Drish	Drish
30	RAVNEEK Kaur	2002300100132	CSE	Drish	Drish	Drish	Drish	Drish	Drish
31	RITIK SHUKLA	2002300100133	CSE	Drish	Drish	Drish	Drish	Drish	Drish



32	ROHIT KUMAR YADAV	2002300100136	CSE	Act	Act	Act	Act	Act	Act
33	SACHIN RAO	2002300100137	CSE	Long	Long	Long	Long	Long	Long
34	SAHIL BHATIA	2002300100139	CSE	Long	Long	Long	Long	Long	Long
35	SANJALI KUMARI	2002300100141	CSE	Long	Long	Long	Long	Long	Long
36	SHAIKENDRA KUMAR	2002300100144	CSE	Long	Long	Long	Long	Long	Long
37	SHIVAM VERMA	2002300100152	CSE	Long	Long	Long	Long	Long	Long
38	SHIVANSHU MISHRA	2002300100155	CSE	Long	Long	Long	Long	Long	Long
39	SHRAVI SINGH	2002300100157	CSE	Long	Long	Long	Long	Long	Long
40	SHUBHAM BHUGRA	2002300100160	CSE	Long	Long	Long	Long	Long	Long
41	TANISH RATHORE	2002300100173	CSE	Long	Long	Long	Long	Long	Long
42	VAIBHAV SAXENA	2002300100184	CSE	Long	Long	Long	Long	Long	Long
43	VAIBHAV SINGH RAWAT	2002300100185	CSE	Long	Long	Long	Long	Long	Long
44	VARUN CHAUHAN	2002300100186	CSE	Long	Long	Long	Long	Long	Long
45	VARUN SHARMA	2002300100187	CSE	Long	Long	Long	Long	Long	Long
46	VISHAL CHAUHAN	2002300100190	CSE	Long	Long	Long	Long	Long	Long
47	YASH BHANDARI	2002300100193	CSE	Long	Long	Long	Long	Long	Long
48	YASH KAPOOR	2002300100195	CSE	Long	Long	Long	Long	Long	Long
49	PRABHAT TIWARI	2002300109011	CSE	Long	Long	Long	Long	Long	Long
50	VINAYAK MISHRA	2002300100189	CSE	Long	Long	Long	Long	Long	Long
51	NAYAB DARAKHSHAN	2102300109010	CSE	Long	Long	Long	Long	Long	Long
52	BHAVYA PALWAL	2002300110009	CSIT	Long	Long	Long	Long	Long	Long
53	NITIN ADHIKARI	2002300110025	CSIT	Long	Long	Long	Long	Long	Long
54	PANKAJ KHANI	2002300110028	CSIT	Long	Long	Long	Long	Long	Long
55	RANJEET TIWARI	2002300110032	CSIT	Long	Long	Long	Long	Long	Long
56	SWAPNIL PANDEY	2002300110045	CSIT	Long	Long	Long	Long	Long	Long
57	SWATI SINGH	2002300110046	CSIT	Long	Long	Long	Long	Long	Long
58	TANISH	2002300110048	CSIT	Long	Long	Long	Long	Long	Long
59	NITESH PANDEY	2002300110024	CSIT	Long	Long	Long	Long	Long	Long
60	DEEPAK SHARMA	2002300110087	CSIT	Long	Long	Long	Long	Long	Long
61	ANIL KUMAR	2002300114387	CSIT	Long	Long	Long	Long	Long	Long
62	SUMIT RAJPUT	2002300110814	CSIT	Long	Long	Long	Long	Long	Long
63	SWATI BISHT	2002300110070	CSIT	Long	Long	Long	Long	Long	Long
64	RAKESH RAJPUT	2002300113089	CSIT	Long	Long	Long	Long	Long	Long
65	AMIT CHAUDHARY	2002300119378	CSIT	Long	Long	Long	Long	Long	Long
66	DEEPESH AGARWAL	2002300114050	CSIT	Long	Long	Long	Long	Long	Long
67	ANITA MISHRA	2002300110130	CSIT	Long	Long	Long	Long	Long	Long
68	SHREYASH VATSA	2102300119008	CSIT	Long	Long	Long	Long	Long	Long
69	VISHAL CHAUHAN	2002300100191	IT	Long	Long	Long	Long	Long	Long
70	ABHISHEK CHOUDHARY	2002300130002	IT	Long	Long	Long	Long	Long	Long
71	ANUJ SINGH	2002300130004	IT	Long	Long	Long	Long	Long	Long

72	KM SANJANA KUMARI	2002300130008	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
73	SHAIENDRA CHAURASIYA	2002300130014	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
74	SUDHANSHU RANJAN	2002300130016	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
75	DHARMENDRA SINGH	2002300130020	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
76	NITISH KUMAR	2002300130021	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
77	SHAISTA CHOUDHARY	2002300130022	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
78	UMAKANT SHARMA	2002300130024	IT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

*[Signature]*

Co-ordinator

Ms. Bhanu Bhardwaj

*[Signature]*

Head of the Department

Dr. Bipin Pandey

*[Signature]*

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# **DRONACHARYA**

Group of Institutions  
Greater Noida

## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ANKIT KUMAR **of** CSE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on*

*“ Cloud Computing ” from 6th-11th September, 2021*



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



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Greater Noida

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**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**  
**Dronacharya Group of Institutions**  
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# DRONACHARYA Group of Institutions

B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

22nd-27th November 2021

## Certificate course on Embedded Project Design Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ARPIT RASTOGI	14465	ECZ	Arpit	Arpit	Arpit	Arpit	Arpit	Arpit
2	DIVYANSHU KUMAR	14667	ECZ	Dishu	Dishu	Dishu	Dishu	Dishu	Dishu
3	SANDEEP KUMAR	14669	ECZ	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep
4	ROHIT GUPTA	14671	ECZ	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit
5	ANITA MISHRA	14672	ECZ	Anita	Anita	Anita	Anita	Anita	Anita
6	JYOTI SHARMA	14673	ECZ	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
7	JYOTI MISHRA	14675	ECZ	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
8	PRIYA VERMA	14676	ECZ	Priya	Priya	Priya	Priya	Priya	Priya
9	SHIVANI AGARWAL	14679	ECZ	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
10	ROHIT RASTOGI	14681	ECZ	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit
11	RAVI PANDEY	14683	ECZ	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
12	NISHA VERMA	14685	ECZ	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha
13	SHIVANI RASTOGI	14689	ECZ	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
14	SHIVANI THAKUR	14691	ECZ	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
15	SUMIT GUPTA	14695	ECZ	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit
16	ANIL GUPTA	14697	ECZ	Anil	Anil	Anil	Anil	Anil	Anil
17	SHIVANI CHAUDHARY	14699	ECZ	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
18	NISHA CHAUDHARY	14701	ECZ	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha
19	SWATI GUPTA	14710	ECZ	Swati	Swati	Swati	Swati	Swati	Swati
20	ABHISHEK VERMA	14714	ECZ	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
21	AKASH KANOJIA	14160	ECE	Akash	Akash	Akash	Akash	Akash	Akash
22	ANKUR DHAMA	14162	ECE	Ankur	Ankur	Ankur	Ankur	Ankur	Ankur
23	E BALAKRISHNA	14166	ECE	E. Balakrishna	E. Balakrishna	E. Balakrishna	E. Balakrishna	E. Balakrishna	E. Balakrishna
24	KARAN KUSHWAHA	14172	ECE	Karan	Karan	Karan	Karan	Karan	Karan
25	MUKUL SHARMA	14176	ECE	Mukul	Mukul	Mukul	Mukul	Mukul	Mukul
26	SAKSHI TRIPATHI	14179	ECE	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
27	VAISHALI MEHLAWAT	14182	ECE	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali
28	YOGITA SHARMA	14168	ECE	Yogita	Yogita	Yogita	Yogita	Yogita	Yogita
29	DEEPAK KUMAR	14171	ECE	Deepak	Deepak	Deepak	Deepak	Deepak	Deepak
30	LALIT KUMAR SINGH	14175	ECE	Lalit	Lalit	Lalit	Lalit	Lalit	Lalit
31	MD ADIL HASIN	14177	ECE	Adil	Adil	Adil	Adil	Adil	Adil
32	RAHUL KUMAR DUBEY	14180	ECE	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
33	SAHIL SINGH	14181	ECE	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
34	SURAJ KUMAR SAHU	14815	ECE	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj

*Pranay*  
Co-ordinator  
Dr. Pranay Bhadauria

*Arora*  
Director

*Arora*  
Head of the Department  
Dr. Sanghamitra V. Arora

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** BAL KRISHAN **of** ECE Dept. (3rd Year)

*has successfully Participated in Six days SDP on*

*“ Embedded Project Design ” on 22nd-27th November 2021*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
22, 40-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** JYOTI SHARMA **of** ECE Dept. (3rd Year)

*has successfully Participated in Six days SDP on*

*“ Embedded Project Design ” on 22nd-27th November 2021*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director



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Approved by All India Council for Technical Education (AICTE), New Delhi  
Affiliated to Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 14th to 19th March, 2022

## SDP on CNC Programming Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AKSHAJ JUMDE	14260	ME	P	P	P	P	P	P
2	ANUSHEEL KAUL	14846	ME	P	P	P	P	P	P
3	ASHISH KAPLE	14263	ME	P	P	P	P	P	P
4	GAUTAM KUMAR	14265	ME	P	P	P	P	P	P
5	GAUTAM NANDA	14844	ME	P	P	P	P	P	P
6	HARINDRA NAU	14268	ME	P	P	P	P	P	P
7	HARSHVARDHAN SINGH	14845	ME	P	P	P	P	P	P
8	HIMANSHU	14271	ME	P	P	P	P	P	P
9	HRITHIK SONI	14274	ME	P	P	P	P	A	P
10	JATIN SHARMA	14276	ME	P	P	P	P	P	P
11	JYOTISH PANDEY	14261	ME	A	A	A	A	A	A
12	KARTIK KHARBANDA	14278	ME	P	P	P	P	P	P
13	KAUSHAL JHA	14281	ME	A	P	P	P	P	P
14	MD ATAULLAH KHAN	14848	ME	A	A	A	A	A	A
15	NEHAAL THAKUR	14269	ME	A	A	A	A	A	A
16	NISHANT MISHRA	14279	ME	A	A	A	A	A	A
17	NISHANT PANDEY	14286	ME	A	A	A	A	A	A
18	PRINCE KUMAR	14284	ME	P	P	P	P	P	P
19	RICK DUTTA	14287	ME	P	P	P	P	P	P
20	RITIK KUMAR	14290	ME	P	P	P	P	P	P
21	SAGARMANI	14293	ME	P	P	P	P	P	P
22	SAURAV KUMAR SINGH	14296	ME	P	P	P	P	P	P
23	SHOURYA MISHRA	14299	ME	P	P	P	A	P	P
24	SHYAM JI	14301	ME	P	P	P	P	P	P
25	SUMIT AGARWAL	14272	ME	A	A	A	A	A	A
26	SUMIT PANDEY	14277	ME	A	A	A	A	A	A
27	VIKAS KUMAR YADAV	14847	ME	A	A	A	A	A	A
28	YASH PANDEY	14300	ME	A	A	A	A	A	A

  
Co-Ordinator

Dr. Shailesh Kumar Singh

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306  
Head of the Department  
Dr. Shailesh Kumar Singh

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# **DRONACHARYA**

## **Group of Institutions**

Greater Noida

### **Student Development Program**

#### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** GAUTAM KUMAR **of** ME Dept. (3rd Year)

*has successfully completed six days Student Development*

*Program on “ CNC Programming ”*

*from 14<sup>th</sup> to 19<sup>th</sup> March, 2022.*

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Dr. Shailesh Kumar Singh**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director



# **DRONACHARYA**

## **Group of Institutions**

Greater Noida

### **Student Development Program**

#### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** HARINDRA NAU **of** ME Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “ CNC Programming ”  
from 14<sup>th</sup> to 19<sup>th</sup> March, 2022.*



Director

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**Dr. Shailesh Kumar Singh**  
Co-ordinator



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**Prof. (Dr.) Arpita Gupta**  
Director

## Short-Term Development Program (SDP) on Certificate Program on CNC Programming

**Course:** Certificate Program on CNC Programming

**Date:** 14th to 19th March, 2022

**Duration:** 6 Day

**Target Students:** ME

### Objective

This course aims to equip participants with fundamental and advanced knowledge of CNC (Computer Numerical Control) machine operations and programming. It emphasizes G-code/M-code writing, tool path planning, and hands-on machine training for real-world manufacturing applications.

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#### ☐ Duration

4 to 6 Weeks (Can be customized based on institution or industry needs)

#### ☐ Target Participants

- Diploma/Engineering students in Mechanical, Production, or Mechatronics
- Skilled workers or technicians seeking upskilling
- Hobbyists or professionals interested in digital manufacturing

#### ☐ Prerequisites

- Basic knowledge of mechanical drawing and manufacturing processes
- Understanding of Cartesian coordinate systems
- Familiarity with machining tools and workshop safety (preferred)

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#### ☐ Course Module Structure

##### Module 1: Introduction to CNC Technology

- Evolution and classification of CNC machines
- Difference between manual, NC, and CNC systems



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- Advantages of CNC in modern manufacturing
  - Basic machine components and control panel overview
- 

## **Module 2: Coordinate Systems & Tool Movements**

- Absolute vs. Incremental programming
  - Work coordinate systems (G54–G59)
  - Axes nomenclature (X, Y, Z) and machine reference points
  - Linear and circular interpolation
- 

## **Module 3: CNC Programming – G-code and M-code**

- Programming structure and block format (N, G, X, Y, Z, F, M)
  - G-code operations: linear (G01), rapid (G00), arc movements (G02/G03)
  - M-code operations: spindle control, coolant, tool changes
  - Canned cycles (drilling, tapping, boring)
- 

## **Module 4: Tooling and Machining Parameters**

- Tool types and holders (turning, milling, drilling tools)
  - Feed rate, spindle speed, and depth of cut
  - Tool wear, offsets, and compensation
  - Tool presetting and tool nose radius concepts
- 

## **Module 5: CNC Milling & Turning Operations**

- 2D contouring, pocketing, and slotting
  - Facing, taper turning, threading
  - Work holding techniques: vices, chucks, jigs, fixtures
  - Dry run and actual machining practices
- 

## **Module 6: Simulation & CAM Software**

- Introduction to CAD-CAM integration
- Use of software like Fusion 360, Mastercam, or FANUC Simulators
- Tool path generation and simulation
- Post-processing and file generation



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## **Module 7: Hands-On Lab and Machine Operation**

- Practice with CNC lathes and vertical machining centers (VMC)
  - Manual data input (MDI) vs automatic mode
  - Workpiece loading, referencing, and dry run validation
  - Troubleshooting and machine safety
- 

## **Module 8: Final Project**

- Design and manufacture of a sample component using CNC
  - Project documentation: drawing, code, setup sheet, inspection report
  - Evaluation based on accuracy, surface finish, and time management
- 



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## □ Evaluation Scheme

Assessment Component	Details	Weightage
Weekly Quizzes	Based on theory, machine codes, and best practices	15%
Practical Assignments	Coding tasks, tool setup, and simulation exercises	25%
Mid-course Lab Evaluation	Execution of a simple part on simulator or real CNC	20%
Final Project	Real-time component machining with complete documentation	30%
Attendance & Participation	Lab conduct, safety awareness, engagement in discussions	10%

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## □ Certification Requirements

- Completion of all modules and lab tasks
- Submission and successful machining of final project
- Minimum overall score of **60%**
- Safe and responsible conduct in practical sessions



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# DRONACHARYA Group of Institutions

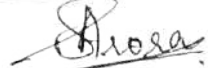
B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 22nd-27th November 2021

## Certificate program on Robot Prototyping Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	ABHISHEK CHAUHAN	14157	ECE	Present	Present	Present	Present	Present	Present
2	ANKIT CHAUHAN	14163	ECE	Present	Present	Present	Present	Present	Present
3	GAURAV KUMAR	14169	ECE	Present	Present	Present	Present	Present	Present
4	MD KAIF	14173	ECE	Present	Present	Present	Present	Present	Present
5	PRIYANSHU PALLAV	14164	ECE	Present	Present	Present	Present	Present	Present
6	SACHIN CHAUDHARY	14165	ECE	Present	Present	Present	Present	Present	Present
7	VANSHIKA TANWAR	14184	ECE	Present	Present	Present	Present	Present	Present
8	YASH SHARMA	14186	ECE	Present	Present	Present	Present	Present	Present
9	AKSHAY SINGH	14167	ECE	Present	Present	Present	Present	Present	Present
10	BAL KRISHAN	14170	ECE	Present	Present	Present	Present	Present	Present
11	DHEERAJ PANCHAL	14174	ECE	Present	Present	Present	Present	Present	Present
12	PRANAV KAUSHIK	14178	ECE	Present	Present	Present	Present	Present	Present
13	SHIWANG BISHT	14183	ECE	Present	Present	Present	Present	Present	Present

  
Co-ordinator  
Dr. Neha Gupta

  
Head of the Department  
Dr. Sanghamitra V. Arora



Director

Dronacharya Group of Institutions  
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**Student Development Program**

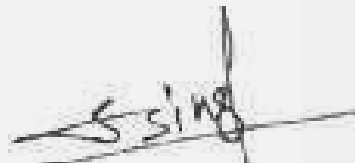
**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Mr./Ms.*** GAURAV KUMAR ***of*** ECE Dept. (3rd Year)

***has successfully Participated in Six days SDP on***

***“ Robot Prototyping ” on 22nd-27th November 2021***



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**

**Dronacharya Group of Institutions**  
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**Student Development Program**

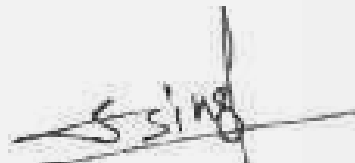
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***“ Robot Prototyping ” on 22nd-27th November 2021***



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# DRONACHARYA Group of Institutions

B-27, Knowledge Park - III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 04th-9th October 2021

## Skill Development program on IOT on Automotive Development

### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	PRAVESH KUMAR	1823040001	ME	<i>Pra</i>	<i>Pra</i>	<i>Pra</i>	<i>Pra</i>	<i>Pra</i>	<i>Pra</i>
2	MUHAMMAD MOMIN MIR	1823040006	ME	<i>Momin</i>	<i>Momin</i>	<i>Momin</i>	<i>Momin</i>	<i>Momin</i>	<i>Momin</i>
3	PRANJAL SHUKLA	1823040008	ME	<i>pranj</i>	<i>pranj</i>	<i>pranj</i>	<i>pranj</i>	<i>pranj</i>	<i>pranj</i>
4	SUDHAKAR PANDEY	1823040011	ME	<i>Sudh</i>	<i>Sudh</i>	<i>Sudh</i>	<i>Sudh</i>	<i>Sudh</i>	<i>Sudh</i>
5	TANISH KUMAR	1823040013	ME	<i>Tanish</i>	<i>Tanish</i>	<i>Tanish</i>	<i>Tanish</i>	<i>Tanish</i>	<i>Tanish</i>
6	MANISH SINGH	1823040015	ME	<i>Manish</i>	<i>Manish</i>	<i>Manish</i>	<i>Manish</i>	<i>Manish</i>	<i>Manish</i>
7	PRASHANT	1823040016	ME	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>
8	RISHI KAPOOR	1823040017	ME	<i>Rishi</i>	<i>Rishi</i>	<i>Rishi</i>	<i>Rishi</i>	<i>Rishi</i>	<i>Rishi</i>
9	KARISHMA	1823040020	ME	<i>Karish</i>	<i>Karish</i>	<i>Karish</i>	<i>Karish</i>	<i>Karish</i>	<i>Karish</i>
10	SHRAY	1823040022	ME	<i>Shray</i>	<i>Shray</i>	<i>Shray</i>	<i>Shray</i>	<i>Shray</i>	<i>Shray</i>
11	HIRAN	1823040023	ME	<i>Hiran</i>	<i>Hiran</i>	<i>Hiran</i>	<i>Hiran</i>	<i>Hiran</i>	<i>Hiran</i>
12	AAINA	1823040025	ME	<i>Aaina</i>	<i>Aaina</i>	<i>Aaina</i>	<i>Aaina</i>	<i>Aaina</i>	<i>Aaina</i>
13	RAJIV GUPTA	1823040028	ME	<i>Rajiv</i>	<i>Rajiv</i>	<i>Rajiv</i>	<i>Rajiv</i>	<i>Rajiv</i>	<i>Rajiv</i>
14	IVAN SINGH	1823040030	ME	<i>Ivan</i>	<i>Ivan</i>	<i>Ivan</i>	<i>Ivan</i>	<i>Ivan</i>	<i>Ivan</i>
15	CHIRAG	1823040031	ME	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>

*Ssing*  
Co-ordinator  
Dr. Shailesh Kumar

*Ssing*  
Head of the Department  
Dr. Shailesh Kumar

*Shubh*

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** TANISH KUMAR **of** ME Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on “ IOT on Automotive Development ”  
from 04th-9th October 2021.*



**Dr. Shailesh Kumar Singh**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director



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Greater Noida

**Student Development Program**

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from 04th-9th October 2021.*



**Dr. Shailesh Kumar Singh**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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**Dronacharya Group of Institutions**  
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## Short-Term Development Program (SDP) on Skill Development program on IOT on Automotive Development

**Course:** Skill Development program on IOT on Automotive Development

**Date:** 04th-9th October 2021

**Duration:** 6 Day


**Target Students:** ME

### Course Module Structure

Module	Title	Key Topics Covered
1	Introduction to IoT and Automotive Tech	IoT basics, automotive electronics, CAN/LIN protocols, IoT applications in vehicles
2	IoT Hardware Platforms	Arduino, ESP32, Raspberry Pi; GPIO, sensors/actuators in vehicle systems
3	Sensors and Data Acquisition	Temperature, proximity, GPS, accelerometer, engine monitoring sensors
4	Vehicle Communication & Protocols	CAN Bus, OBD-II, UART/SPI/I2C interfacing, real-time communication in vehicles
5	Cloud Connectivity and Telemetry	MQTT, HTTP, Blynk, ThingSpeak, real-time vehicle tracking and diagnostics
6	Data Logging and Visualization	Sending vehicle data to cloud, dashboard visualization, alerts, and analytics
7	Project Integration	Building a smart vehicle module: telemetry, control, tracking
8	Final Demonstration & Review	Testing, debugging, performance analysis, final presentation

### ☐ Tools & Technologies

- **Hardware:** ESP32, GPS module, CAN shield, sensors, relays
- **Software:** Arduino IDE, Blynk, ThingSpeak, Firebase, Wireshark
- **Protocols:** CAN, MQTT, HTTP, UART, I2C



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## □ Evaluation Scheme

Component	Description	Weightage
Module Quizzes	Weekly concept checks (MCQs + short answers)	10%
Hands-on Assignments	Sensor integration, data logging, protocol testing	30%
Mini Project	Vehicle monitoring system (e.g., accident alert, GPS tracking)	20%
Final Project	Full IoT automotive solution with dashboard + cloud integration	30%
Participation & Interaction	Team collaboration, discussions, lab engagement	10%

---

## □ Certification Criteria

- Completion of all modules and practical sessions
- Successful demo of both mini and final projects
- Minimum **60% overall score**



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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 6TH-11TH SEPTEMBER 2021

## Certificate Program on IoT in Electrical and Industrial Automation Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	MANISH KUMAR	1823021003	EEE	Present	Present	Present	Present	Present	Present
2	RITIK KUMAR	1823021006	EEE	Absent	Absent	Absent	Absent	Absent	Absent
3	ABUL HASSAN LAIQ AHMAD SIDDIQUI	1823021009	EEE	Absent	Absent	Absent	Absent	Absent	Absent
4	SHIVANSH SINGH	1823021011	EEE	Leave	Leave	Leave	Leave	Leave	Leave
5	AKARSH	1823021013	EEE	Absent	Absent	Absent	Absent	Absent	Absent
6	NISHANT	1823021015	EEE	Absent	Absent	Absent	Absent	Absent	Absent
7	LAKSHIT WASON	1823021016	EEE	Leave	Leave	Leave	Leave	Leave	Leave
8	HRITIK	1823021017	EEE	Leave	Leave	Leave	Leave	Leave	Leave
9	AMITESH	1823021018	EEE	Absent	Absent	Absent	Absent	Absent	Absent
10	DINKAR	1823021020	EEE	Absent	Absent	Absent	Absent	Absent	Absent
11	AKARSH	1823021021	EEE	Absent	Absent	Absent	Absent	Absent	Absent
12	KIAAN	1823021022	EEE	Absent	Absent	Absent	Absent	Absent	Absent



Co-ordinator  
Dr. Hari Mohan Rai



Head of the Department  
Dr. Sanghamitra V. Arora



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Mr./Ms.*** NISHANT ***of*** EEE Dept. (Final Year)

***has successfully completed six days Student Development  
Program on “IoT in Electrical and Industrial Automation”  
from 6th-11th SEPTEMBER 2021***



**Prof. Sanghamitra V Arora**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Mr./Ms.*** AMITESH ***of*** EEE Dept. (Final Year)

***has successfully completed six days Student Development  
Program on “IoT in Electrical and Industrial Automation”  
from 6th-11th SEPTEMBER 2021***



**Prof. Sanghamitra V Arora**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**  
**Dronacharya Group of Institutions**  
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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 29th November-4th December  
2021

## Certificate program on Introduction to Agile Methodologies and Scrum

### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AADITYA BHARDWAJ	1823010001	CSE	Present	Present	Present	Present	Present	Present
2	ABHISHEK SINGH	1823010005	CSE	Present	Present	Present	Present	Present	Present
3	ACHINTYA NATHANI	1823010006	CSE	Present	Present	Present	Present	Present	Present
4	ADARSH DUBEY	1823010007	CSE	Present	Present	Present	Present	Present	Present
5	AFTAB ALAM	1823010009	CSE	Present	Present	Present	Present	Present	Present
6	AKASH CHAUHAN	1823010011	CSE	Present	Present	Present	Present	Present	Present
7	AKSHAY UNNIKRIISHNAN	1823010013	CSE	Present	Present	Present	Present	Present	Present
8	AMAN CHAWLA	1823010014	CSE	Present	Present	Present	Present	Present	Present
9	AMAN JAISWAL	1823010015	CSE	Present	Present	Present	Present	Present	Present
10	ANMOL CHAUHAN	1823010019	CSE	Present	Present	Present	Present	Present	Present
11	ANURAG	1823010020	CSE	Present	Present	Present	Present	Present	Present
12	ARIJUN V P	1823010021	CSE	Present	Present	Present	Present	Present	Present
13	ARUN BHATTI	1823010022	CSE	Present	Present	Present	Present	Present	Present
14	AYUSH SAGAR	1823010024	CSE	Present	Present	Present	Present	Present	Present
15	DEEPAK CHAUHAN	1823010026	CSE	Present	Present	Present	Present	Present	Present
16	DEEPANSHU TOMAR	1823010029	CSE	Present	Present	Present	Present	Present	Present
17	DIVYA GUPTA	1823010030	CSE	Present	Present	Present	Present	Present	Present
18	HARSHIT PALIWAL	1823010032	CSE	Present	Present	Present	Present	Present	Present
19	HIMANSHU KUMAR	1823010034	CSE	Present	Present	Present	Present	Present	Present
20	JASPAL	1823010036	CSE	Present	Present	Present	Present	Present	Present
21	K SHIVAM	1823010038	CSE	Present	Present	Present	Present	Present	Present
22	KUMAR TARUN	1823010041	CSE	Present	Present	Present	Present	Present	Present
23	LOVEKESH KUMAR	1823010044	CSE	Present	Present	Present	Present	Present	Present
24	MANJEET KUMAR	1823010046	CSE	Present	Present	Present	Present	Present	Present
25	MANOJ	1823010047	CSE	Present	Present	Present	Present	Present	Present
26	MAYANK NEGI	1823010048	CSE	Present	Present	Present	Present	Present	Present
27	MD SABAB ALAM	1823010049	CSE	Present	Present	Present	Present	Present	Present
28	MILLI KUMARI	1823010052	CSE	Present	Present	Present	Present	Present	Present
29	MOHD HASNAIN RAZA	1823010053	CSE	Present	Present	Present	Present	Present	Present
30	NEERAJ PRASAD	1823010055	CSE	Present	Present	Present	Present	Present	Present
31	NITESH SHARMA	1823010057	CSE	Present	Present	Present	Present	Present	Present
32	PARICHIT KUKRETI	1823010058	CSE	Present	Present	Present	Present	Present	Present
33	PRAVEEN KUMAR CHANDRA	1823010060	CSE	Present	Present	Present	Present	Present	Present
34	PRINCE	1823010061	CSE	Present	Present	Present	Present	Present	Present



35	PRIYANKA	1823010062	CSE	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
36	PULI SWETHA	1823010064	CSE	Pulika	Pulika	Pulika	Pulika	Pulika	Pulika
37	RISHAV KUMAR	1823010067	CSE	Rishav	Rishav	Rishav	Rishav	Rishav	Rishav
38	RISHU TIWARI	1823010068	CSE	Rishu	Rishu	Rishu	Rishu	Rishu	Rishu
39	RITHIK RAWAT	1823010069	CSE	Rithika	Rithika	Rithika	Rithika	Rithika	Rithika
40	ROSHAN KUMAR	1823010070	CSE	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan
41	SACHIN KUMAR MISHRA	1823010072	CSE	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin
42	SANDIPAN SANTRA	1823010074	CSE	Sandipa	Sandipa	Sandipa	Sandipa	Sandipa	Sandipa
43	SHANTANU SAHA	1823010075	CSE	Shantanu	Shantanu	Shantanu	Shantanu	Shantanu	Shantanu
44	SHASSHANK RANA	1823010076	CSE	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
45	SHIVAM NEGI	1823010077	CSE	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam
46	SHIVANI DWIVEDI	1823010078	CSE	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
47	SMITA SINGH	1823010081	CSE	Smita	Smita	Smita	Smita	Smita	Smita
48	SUDHIR KUMAR CHAURASIYA	1823010083	CSE	Sudhir	Sudhir	Sudhir	Sudhir	Sudhir	Sudhir
49	SUHAIB AHMAD KHAN	1823010084	CSE	Suhaib	Suhaib	Suhaib	Suhaib	Suhaib	Suhaib
50	SURYA PRAKASH JHA	1823010085	CSE	Surya	Surya	Surya	Surya	Surya	Surya
51	SYED ASHAR AHMAD	1823010086	CSE	Syed	Syed	Syed	Syed	Syed	Syed
52	VAINISHA JAIN	1823010089	CSE	Vainisha	Vainisha	Vainisha	Vainisha	Vainisha	Vainisha
53	VIJENDRA KUMAR SHARMA	1823010090	CSE	Vijendra	Vijendra	Vijendra	Vijendra	Vijendra	Vijendra
54	VIKASH KUMAR	1823010091	CSE	Vikas	Vikas	Vikas	Vikas	Vikas	Vikas
55	VISHAL THAKUR	1823010093	CSE	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
56	VIVEK KUMAR	1823010096	CSE	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek
57	ADITYA RAJ	1823010099	CSE	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
58	SAMRA BANO	1823010101	CSE	Samra	Samra	Samra	Samra	Samra	Samra
59	SHAHBAZ KHAN	1823010102	CSE	Shahbaz	Shahbaz	Shahbaz	Shahbaz	Shahbaz	Shahbaz
60	ABHISHEK RAI	1823010004	CSE	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
61	AMIT SINGH	1823010017	CSE	Amit	Amit	Amit	Amit	Amit	Amit
62	SANA	1823010104	CSE	Sana	Sana	Sana	Sana	Sana	Sana
63	NEHMAT	1823010105	CSE	Nemat	Nemat	Nemat	Nemat	Nemat	Nemat
64	TIYA	1823010107	CSE	Tiya	Tiya	Tiya	Tiya	Tiya	Tiya
65	ABHISHEK YADAV	1823010109	CSE	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
66	CHIRAG	1823010111	CSE	Chirag	Chirag	Chirag	Chirag	Chirag	Chirag
67	MANJARI	1823010114	CSE	Manjari	Manjari	Manjari	Manjari	Manjari	Manjari
68	AARNA	1823010117	CSE	Aarna	Aarna	Aarna	Aarna	Aarna	Aarna
69	VAIBHAV YADAV	1823010118	CSE	Vaibhav	Vaibhav	Vaibhav	Vaibhav	Vaibhav	Vaibhav
70	ABHAY KUMAR	1823011002	CSIT	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay
71	ADITYA KUMAR	1823011003	CSIT	Aditya	Aditya	Aditya	Aditya	Aditya	Aditya
72	AKSHAY KUMAR	1823011006	CSIT	Akshay	Akshay	Akshay	Akshay	Akshay	Akshay
73	ANAND KUMAR SINGH	1823011010	CSIT	Anand	Anand	Anand	Anand	Anand	Anand
74	ANANT SINGH	1823011011	CSIT	Anant	Anant	Anant	Anant	Anant	Anant
75	ANKUSH TOMAR	1823011013	CSIT	Ankush	Ankush	Ankush	Ankush	Ankush	Ankush



76	ENJOY MAITY	1823011019	CSIT	Buys	Buys	Buys	Buys	Buys	Buys
77	KARTIK GOSWAMI	1823011022	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
78	MEHUL GARG	1823011026	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
79	MRIDUL MISHRA	1823011028	CSIT	Mudur	Mudur	Mudur	Mudur	Mudur	Mudur
80	PRANJUL SINGH RATHOD	1823011031	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
81	RAHUL RAJ	1823011034	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
82	SAJAN	1823011038	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
83	SAZID KHAN	1823011040	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
84	VIKRANT SINGH	1823011045	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
85	RAKESH YADAV	1823011035	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
86	AMMAR TARIQUE	1823011048	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
87	JITESH BHATIA	1823011050	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
88	NEERAJ SHARMA	1823011051	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
89	BALAL TARIQUE	1823011052	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
90	ISHAN MARHATTA	1823011054	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
91	YASHASWVI SRIVASTAVA	1823011058	CSIT	Puth	Puth	Puth	Puth	Puth	Puth
92	FARAJ KHAN	1823013003	IT	Puth	Puth	Puth	Puth	Puth	Puth
93	JIVANSH BHATIA	1823013005	IT	Puth	Puth	Puth	Puth	Puth	Puth
94	MANISH MAURYA	1823013007	IT	Puth	Puth	Puth	Puth	Puth	Puth
95	NEERAJ PUROHIT	1823013010	IT	Puth	Puth	Puth	Puth	Puth	Puth
96	SIYA	1823013011	IT	Puth	Puth	Puth	Puth	Puth	Puth
97	ANYA	1823013013	IT	Puth	Puth	Puth	Puth	Puth	Puth
98	AARUSH	1823013014	IT	Puth	Puth	Puth	Puth	Puth	Puth
99	RITVIK	1823013016	IT	Puth	Puth	Puth	Puth	Puth	Puth
100	IVAN	1823013018	IT	Puth	Puth	Puth	Puth	Puth	Puth
101	PANKAJ SHUKLA	1823013022	IT	Puth	Puth	Puth	Puth	Puth	Puth
102	SAJEEV VIJAYAN	1823013024	IT	Puth	Puth	Puth	Puth	Puth	Puth
103	RAJIV PURI	1823013026	IT	Puth	Puth	Puth	Puth	Puth	Puth
104	SHIV PRASAD MAURYA	1823013028	IT	Puth	Puth	Puth	Puth	Puth	Puth
105	SANDEEP MALIK	1823013030	IT	Puth	Puth	Puth	Puth	Puth	Puth
106	LALIT KUMAR SINGH	1823013031	IT	Puth	Puth	Puth	Puth	Puth	Puth
107	SUJIT KUMAR SINGH	1823013032	IT	Puth	Puth	Puth	Puth	Puth	Puth
108	SUSHEELA	1823013033	IT	Puth	Puth	Puth	Puth	Puth	Puth
109	MUKESH KAPUR	1823013034	IT	Puth	Puth	Puth	Puth	Puth	Puth
110	RAJIV GUPTA	1823013035	IT	Puth	Puth	Puth	Puth	Puth	Puth

*Aadarsh Malviya*  
Co-ordinator  
Dr. Aadarsh Malviya

*[Signature]*

*Bipin*  
Head of the Department  
Dr. Bipin Pandey

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. PRINCE of CSE Dept. (Final Year)**

*has successfully completed six days*

***Student Development Program on “ Agile Methodologies and Scrum ”***

***from 29th November-4th December 2021.***



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. ROSHAN KUMAR of CSE Dept. (Final Year)**

*has successfully completed six days*

***Student Development Program on “ Agile Methodologies and Scrum ”***

***from 29th November-4th December 2021.***



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**

## Short-Term Development Program (SDP) on Certificate program on Introduction to Agile Methodologies and Scrum

**Course:** Certificate program on Introduction to Agile Methodologies and Scrum

**Date:** 29th November-4th December 2021

**Duration:** 6 Day

**Target Students:** CSE/AIML/CSIT/ECS/IT

### Program Objective

To introduce participants to Agile principles, frameworks, and Scrum practices to enhance project management, team collaboration, and product delivery efficiency in dynamic environments.

### Course Breakdown

Week	Topic	Key Concepts
1	□ <i>Agile Fundamentals</i>	Agile Manifesto, values & principles, Waterfall vs Agile, Agile mindset
2	□ <i>Scrum Framework Essentials</i>	Scrum roles (Product Owner, Scrum Master, Dev Team), events, artifacts
3	□ <i>Scrum in Practice</i>	User stories, sprint planning, backlog grooming, daily stand-ups, reviews
4	□ <i>Agile Tools &amp; Case Studies</i>	Using tools (JIRA, Trello), Scrum metrics, real-world implementation examples

---

### □ Tools & Platforms Covered

- ☒ **Project Tools:** JIRA, Trello, Azure Boards
- ☒ **Time Management:** Burndown charts, sprint velocity
- ☐ **Planning Aids:** Product & sprint backlogs, Kanban boards



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## ❑ Evaluation Criteria

Component	Details	Weightage
Weekly Quizzes	Topic-specific MCQs & scenario-based questions	20%
Case Study Review	Group-based or individual analysis of Agile implementations	20%
Practical Simulation	Role-play as Scrum team in a simulated sprint cycle	30%
Final Assessment	Theory + application-based test (online or offline)	20%
Participation	Interaction in activities, group work, and discussions	10%

---

## ❑ Certification Requirement

- ❑ Attend at least 75% of sessions
- ❑ Complete practical simulation
- ❑ Score minimum 60% overall
- ❑ Participate in all group activities



Director

**Dronacharya Group of Institutions**  
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# DRONACHARYA Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 06th-11th December 2021

## SDP on Advanced Applications of Artificial Intelligence in Communication Systems

### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	AJAY SINGH PANWAR	1823031003	ECE	<i>Ajay</i>	<i>Ajay</i>	<i>Ajay</i>	<i>Ajay</i>	<i>Ajay</i>	<i>Ajay</i>
2	GAURAV PANDEY	1823031005	ECE	<i>Gaurav</i>	<i>Gaurav</i>	<i>Gaurav</i>	<i>Gaurav</i>	<i>Gaurav</i>	<i>Gaurav</i>
3	SAURABH GOSWAMI	1823031006	ECE	<i>Saurabh</i>	<i>Saurabh</i>	<i>Saurabh</i>	<i>Saurabh</i>	<i>Saurabh</i>	<i>Saurabh</i>
4	VIKASH KUMAR	1823031008	ECE	<i>Vikash</i>	<i>Vikash</i>	<i>Vikash</i>	<i>Vikash</i>	<i>Vikash</i>	<i>Vikash</i>
5	SAKSHAM	1823031010	ECE	<i>Saksham</i>	<i>Saksham</i>	<i>Saksham</i>	<i>Saksham</i>	<i>Saksham</i>	<i>Saksham</i>
6	IRA	1823031012	ECE	<i>Ira</i>	<i>Ira</i>	<i>Ira</i>	<i>Ira</i>	<i>Ira</i>	<i>Ira</i>
7	SANA	1823031013	ECE	<i>Sana</i>	<i>Sana</i>	<i>Sana</i>	<i>Sana</i>	<i>Sana</i>	<i>Sana</i>
8	EVA SHARMA	1823031015	ECE	<i>Eva</i>	<i>Eva</i>	<i>Eva</i>	<i>Eva</i>	<i>Eva</i>	<i>Eva</i>
9	VIVAAN	1823031016	ECE	<i>Vivaan</i>	<i>Vivaan</i>	<i>Vivaan</i>	<i>Vivaan</i>	<i>Vivaan</i>	<i>Vivaan</i>
10	ADVIK	1823031018	ECE	<i>Advik</i>	<i>Advik</i>	<i>Advik</i>	<i>Advik</i>	<i>Advik</i>	<i>Advik</i>
11	MEHUL SINGH	1823031019	ECE	<i>Mehul</i>	<i>Mehul</i>	<i>Mehul</i>	<i>Mehul</i>	<i>Mehul</i>	<i>Mehul</i>
12	SAIRA	1823031021	ECE	<i>Saira</i>	<i>Saira</i>	<i>Saira</i>	<i>Saira</i>	<i>Saira</i>	<i>Saira</i>
13	UTHKARSH	1823031024	ECE	<i>Utkarsh</i>	<i>Utkarsh</i>	<i>Utkarsh</i>	<i>Utkarsh</i>	<i>Utkarsh</i>	<i>Utkarsh</i>
14	BABITA	1823031026	ECE	<i>Babita</i>	<i>Babita</i>	<i>Babita</i>	<i>Babita</i>	<i>Babita</i>	<i>Babita</i>
15	ABHISHEK SINGH	1823031027	ECE	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>	<i>Abhishek</i>
16	CHIRAG	1823031029	ECE	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>	<i>Chirag</i>
17	SHREYANSHI	1823031031	ECE	<i>Shreya</i>	<i>Shreya</i>	<i>Shreya</i>	<i>Shreya</i>	<i>Shreya</i>	<i>Shreya</i>
18	SAHIL	1823031032	ECE	<i>Sahil</i>	<i>Sahil</i>	<i>Sahil</i>	<i>Sahil</i>	<i>Sahil</i>	<i>Sahil</i>
19	AARYAHI	1823031033	ECE	<i>Aaryahi</i>	<i>Aaryahi</i>	<i>Aaryahi</i>	<i>Aaryahi</i>	<i>Aaryahi</i>	<i>Aaryahi</i>
20	AZAD	1823031034	ECE	<i>Azad</i>	<i>Azad</i>	<i>Azad</i>	<i>Azad</i>	<i>Azad</i>	<i>Azad</i>
21	NITARA	1823031035	ECE	<i>Nitara</i>	<i>Nitara</i>	<i>Nitara</i>	<i>Nitara</i>	<i>Nitara</i>	<i>Nitara</i>
22	ANYA	1823031041	ECE	<i>Anya</i>	<i>Anya</i>	<i>Anya</i>	<i>Anya</i>	<i>Anya</i>	<i>Anya</i>
23	MAHIKA	1823031042	ECE	<i>Mahika</i>	<i>Mahika</i>	<i>Mahika</i>	<i>Mahika</i>	<i>Mahika</i>	<i>Mahika</i>
24	ISHAAN	1823031044	ECE	<i>Ishaan</i>	<i>Ishaan</i>	<i>Ishaan</i>	<i>Ishaan</i>	<i>Ishaan</i>	<i>Ishaan</i>

*Lily Kumari*  
Co-ordinator  
Dr. Lily Gupta

*Dr. Arora*  
Head of the Department  
Dr. Sanghamitra V. Arora

*(Signature)*

Director

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# **DRONACHARYA**

## Group of Institutions

### Greater Noida

## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** GAURAV PANDEY **of ECE Dept. (Final Year)**

***has successfully completed six days***

***Student Development Program on***

***“ Artificial Intelligence in Communication Systems ”***

***from 06th-11th December 2021***



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Dr. Arpita Gupta**  
**Director**  
**Dronacharya Group of Institutions**  
**27, KP-III, Greater Noida-201306**



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### Greater Noida

## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** \_\_\_\_\_ **IRA** \_\_\_\_\_ **of ECE Dept. (Final Year)**

*has successfully completed six days*

*Student Development Program on*

*“ Artificial Intelligence in Communication Systems ”*

*from 06th-11th December 2021*



**Dr. Bipin Pandey** Director

**Prof. (Dr.) Arpita Gupta**

*HOD*  
Dronacharya Group of Institutions  
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*Director*

## **Short-Term Development Program (SDP) on Advanced Applications of Artificial Intelligence in Communication Systems**

**Course:** Advanced Applications of Artificial Intelligence in Communication Systems

**Date:** 06th-11th December 2021

**Duration:** 6 Day

**Target Students:** ECE

### **Course Learning Outcomes**

By the end of this course, participants will be able to:

- Understand the integration of AI/ML models in wireless and digital communication systems
- Apply deep learning algorithms to signal processing, channel estimation, and resource optimization
- Analyze AI-based solutions for intelligent radio, 5G/6G systems, and IoT applications
- Develop and evaluate real-world AI projects for communication challenges

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### **□ Course Modules**

#### **Module 1: Introduction to AI in Communication Systems**

- Evolution of communication systems and the role of AI
- Overview of ML/DL techniques used in telecom

#### **Module 2: AI for Signal Processing**

- AI-driven noise reduction and signal classification
- Modulation recognition using CNNs/RNNs

#### **Module 3: Resource Management with AI**

- AI in spectrum allocation and power control
- Reinforcement learning in wireless scheduling

#### **Module 4: Deep Learning for Channel Estimation**

- Using deep neural networks to predict channel behavior
- Application in MIMO and OFDM systems



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## **Module 5: Cognitive Radios and Intelligent Networks**

- Dynamic spectrum sensing and usage
- Decision-making with supervised/unsupervised models

## **Module 6: AI in Network Security & Fault Detection**

- Intrusion detection systems using anomaly detection
- Network fault prediction using ML models

## **Module 7: AI at the Edge in IoT Networks**

- AI-powered real-time IoT data transmission
- Edge intelligence in low-latency networks

## **Module 8: Capstone Project**

- Choose a real-world communication problem
- Design and implement an AI-based solution
- Final presentation + Viva

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### **□ Technologies & Tools**

- **Programming:** Python, MATLAB
  - **Frameworks:** TensorFlow, Keras, Scikit-learn
  - **Simulation/Testing:** NS-3, GNU Radio, MATLAB Simulink
  - **Hardware (Optional):** USRP, SDR Kits for lab integration
- 



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## ☐ Evaluation Criteria

Component	Description	Weightage
Quizzes & Concept Checks	Short assessments after each module	15%
Lab/Code Assignments	AI model implementations using sample datasets	25%
Research Review	Critical analysis of a recent IEEE/Elsevier paper	10%
Capstone Project	Design + demo of working AI-comm system	40%
Participation/Viva	Engagement in discussions and final presentation	10%

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## ☐ Certification Requirements

- ☐ Minimum score of **60%**
- ☐ Completion of all assignments and project
- ☐ Active participation in at least **75%** of sessions



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

**Skill Enhancement Program on Techniques for prioritizing tasks, handling deadlines, and achieving work-life balance.**

### List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	ISHITA SRIVASTAVA	2002300700004	MBA
2	NISHA SHARMA	2002300700008	MBA
3	SANGAM CHAUHAN	2002300700013	MBA
4	REENA CHAUDHARY	2002300700017	MBA
5	JYOTI MISHRA	2002300700019	MBA
6	DINESH KUMAR	2002300700020	MBA
7	KAVITA SAGAR	2002300700021	MBA
8	RAHUL AGARWAL	2002300700023	MBA
9	ANAMIKA GUPTA	2002300700025	MBA
10	SWATI KUMARI	2002300700026	MBA
11	POOJA SHARMA	2002300700029	MBA
12	KAVITA VALMIKI	2002300700031	MBA
13	PRIYA GUPTA	2002300700033	MBA
14	SUHANI SHARMA	2002300700035	MBA
15	RAHUL KUMAR	2002300700037	MBA
16	RAHUL JADHAV	2002300700039	MBA
17	KAVITA KUMARI	2002300700041	MBA
18	PRIYA THAKUR	2002300700045	MBA

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19	KAVITA CHAUDHARY	2002300700047	MBA
20	ANIL SHARMA	2002300700049	MBA
21	SWATI VERMA	2002300700051	MBA
22	SHRUTI MISHRA	2002300700053	MBA
23	ANIL VALMIKI	2002300700054	MBA
24	RAKESH SINGH	2002300700055	MBA



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**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** NISHA SHARMA ***of*** MBA Dept. (1st Year)

***has successfully completed six days Student Development  
Program on “ Techniques for prioritizing tasks,  
handling deadlines, and achieving work-life balance.”  
from 24th-29th August, 2020.***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

***Mr./Ms.*** PRIYA THAKUR ***of*** MBA Dept. (1st Year)

***has successfully completed six days Student Development  
Program on “ Techniques for prioritizing tasks,  
handling deadlines, and achieving work-life balance.”  
from 24th-29th August, 2020.***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

## Certificate Program

### Techniques for Prioritizing Tasks, Handling Deadlines, and Achieving Work-Life Balance

- **Organizer:** MBA Department
  - **Target Group:** First Year B.Tech Students
  - **Dates:** 24th – 29th August 2020
  - **Duration:** 36 Hours
- 

#### □ Program Objective

This program **aims to equip** first-year students with essential skills in **task prioritization, deadline management, and maintaining work-life balance**. It **focuses on enhancing** students' ability to plan, organize, and regulate their academic and personal responsibilities through practical tools and interactive sessions.

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#### □ Session Structure

Day	Theme	Topics & Activities
Day 1	Understanding Time as a Resource	Students <b>explore</b> the value of time, identify time-wasters, and <b>set</b> intentions.
Day 2	Prioritization Techniques	Participants <b>apply</b> tools like the Eisenhower Matrix and SMART goals.
Day 3	Managing Deadlines	Sessions <b>introduce</b> strategies to overcome procrastination and <b>implement</b> the 80/20 Rule.
Day 4	Balancing Academics and Personal Life	Students <b>discuss</b> distraction management and <b>practice</b> time-blocking.
Day 5	Building Resilience and Reducing Stress	Techniques like journaling, mindfulness, and structured breaks <b>are introduced</b> .
Day 6	Capstone Activity: My Balanced Week Plan	Participants <b>design</b> and <b>present</b> a personal weekly plan for review and feedback.

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## □ Evaluation Strategy

Component	Details	Weight
Self-Assessment (Pre/Post)	Reflective questionnaire on habits and skills	10%
In-Class Tasks	Worksheets, time audits, matrix-based activities	20%
Problem-Solving Caselets	Task simulations, deadline dilemmas	20%
Week Plan Submission	Individualized planning based on course tools	30%
Peer & Facilitator Feedback	Constructive critique and reflection	20%
<b>Total</b>		<b>100%</b>

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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE:14th-19th September 2020

SDP on Logic building, syntax, basic algorithms			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	AAKASH SHARMA	2002300100002	CSE
2	AKSHATA RAJESH RAM	2002300100020	CSE
3	ANJALI SINGH	2002300100025	CSE
4	ANSHIKA BISHT	2002300100035	CSE
5	ARPITA SINGH	2002300100039	CSE
6	AYUSH RAJ	2002300100049	CSE
7	BHUPENDER SINGH	2002300100053	CSE
8	DEEPESH CHOUDHARY	2002300100058	CSE
9	DEVESH MANRAL	2002300100060	CSE
10	GAGAN ARYA	2002300100063	CSE
11	GAURAV SEN	2002300100065	CSE
12	GOURAV KUMAR	2002300100068	CSE
13	KARAN JOSHI	2002300100080	CSE
14	KUNAL SHARMA	2002300100085	CSE
15	LAKSHAY	2002300100087	CSE
16	PRATEEK BHATI	2002300100116	CSE
17	RAHUL RAI	2002300100128	CSE
18	ROHIT KUMAR YADAV	2002300100136	CSE
19	SUSHANT KUMAR	2002300100171	CSE
20	TIHAMI RAHMAN	2002300100176	CSE
21	SUBHRADIP SAHA	2002300109018	CSE
22	ASHUTOSH KUMAR SINGH	2002300100040	CSE
23	AMBIKA	2002300110006	CSIT
24	NIMANSHU JAIN	2002300110023	CSIT

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25	NITISH KUMAR	2002300110026	CSIT
26	RITU DAYAL	2002300110033	CSIT
27	SHIVAM VASHISTHA	2002300110039	CSIT
28	SIDHANT YADAV	2002300110042	CSIT
29	SUSHANT SAMEER	2002300110044	CSIT
30	HARSH JAIN	2002300110013	CSIT
31	SHIVANI VALMIKI	2002300115063	CSIT
32	SWATI BISHT	2002300110070	CSIT
33	GOPAL GUPTA	2002300110926	CSIT
34	AMIT CHAUDHARY	2002300119378	CSIT
35	AFAQUE WASIM	2002300210001	EEE
36	PRIYA AGARWAL	2002300219137	EEE
37	KAVITA KUMAR	2002300213862	EEE
38	RAHUL MEENA	2002300216587	EEE
39	ANKITA CHAUDHARY	2002300213752	EEE
40	RAMAN CHAUDHARY	2002300210202	EEE
41	ADITI GUPTA	2002300310001	ECE
42	ROHIT VALMIKI	2002300631624	ECE
43	AMIT VALMIKI	2002300319399	ECE
44	PRIYAM KUMAR	2002300310166	ECE
45	ANIL AGARWAL	2002300310949	ECE
46	ANITA BISHT	2002300313052	ECE
47	VIKAS JADHAV	2002300313878	ECE
48	VIKAS KUMAR	2002300314515	ECE
49	RITU THAKUR	2002300009010	ECZ
50	GARIMA CHAUDHARY	2002300009013	ECZ
51	RAHUL GAUTAM	2002300009016	ECZ
52	KAVITA RAJPUT	2002300009021	ECZ
53	RITU YADAV	2002300009023	ECZ
54	DEEPANSH SHARMA	2002300009034	ECZ
55	SHALU AGARWAL	2002300009037	ECZ
56	SWATI THAKUR	2002300009041	ECZ
57	ROHIT GUPTA	2002300009045	ECZ



58	AJAY MISHRA	2002300009048	ECZ
59	KARISHMA	2002300009053	ECZ
60	SUMIT JADHAV	2002300009059	ECZ
61	ANKIT KUMAR	2002300100029	IT
62	SHUBHAM KUMAR	2002300100163	IT
63	ANIKET KUMAR	2002300130003	IT
64	CHANDRA SHEKHAR CHAUHAN	2002300130005	IT
65	DEEKSHA GUPTA	2002300130006	IT
66	MAHESH YADAV	2002300130009	IT
67	RESHMA	2002300130012	IT
68	SHAILENDRA CHAURASIYA	2002300130014	IT
69	AKASH DEEP	2002300130017	IT
70	NITISH KUMAR	2002300130021	IT
71	UMAKANT SHARMA	2002300130024	IT
72	VISHAL KUMAR GUPTA	2002300400007	ME
73	ANUSHEEL KAUL	2002300409001	ME
74	GAUTAM NANDA	2002300409003	ME
75	MD ATAULLAH KHAN	2002300409005	ME
76	VIKAS KUMAR YADAV	2002300409006	ME
77	RAHUL SINGH	2002300409008	ME
78	ROHIT SAGAR	2002300405617	ME
79	AJAY GUPTA	2002300408475	ME
80	JYOTISH CHAUDHARY	2002300402513	ME
81	ROHAN MISHRA	2002300409017	ME
82	VIKAS CHAUDHARY	2002300402795	ME
83	PRERIT GUPTA	2002300406311	ME
84	AJAY AGARWAL	2002300407438	ME
85	SNEHIL YADAV	2002300401914	ME

**Co-ordinator**  
**Mr. Hridayesh Gupta**

**Head of the Department**  
**Dr. Pawan Kumar Sharma**

  
Director  
Dronacharya Group of Institutions  
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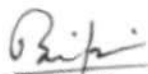
**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** GAURAV SEN **of** CSE Dept. (1st Year)

*has successfully completed six days Student Development  
Program on “ Logic building, syntax, basic algorithms”  
from 14th-19th September 2020*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



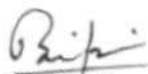
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*This is to certify that*

**Mr./Ms.** TIHAMI RAHMAN **of** CSE Dept. (1st Year)  
*has successfully completed six days Student Development  
Program on “ Logic building, syntax, basic algorithms”  
from 14th-19th September 2020*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director





## **Student Development Program (SDP): Logic Building, Syntax, and Basic Algorithms**

**Target Students:** 1st Year

**Duration:** 36 Hours

**Dates:** 14th–19th September 2020

**Organized by:** APS Department

### **Course Module**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>	<b>Hours</b>
1	Introduction to Logic Building	Basic programming concepts, flowcharts, pseudocode	6
2	Syntax Basics	Syntax in C/Python, data types, variables, operators, input/output	8
3	Conditional Statements and Loops	if-else, nested conditions, while, for loops, loop control	8
4	Basic Algorithms	Searching, sorting, number-based algorithms (prime, palindrome, factorial, etc.)	8
5	Hands-on Practice & Mini Assignments	Lab sessions, live coding exercises	6



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## Evaluation Matrix

Component	Weightage
Quiz 1 (Logic & Syntax)	20%
Quiz 2 (Control Structures)	20%
Lab Assignments	30%
Final Test/Project	30%
<b>Total</b>	<b>100%</b>



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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 22nd-27th February 2021

<b>SDP on 2D/3D design &amp; Modeling</b>			
<b>List of Participants Online SDP</b>			
<b>S.NO</b>	<b>Name of the Students</b>	<b>Roll No.</b>	<b>Dept.</b>
1	AKSHAJ JUMDE	14260	ME
2	ASHISH KAFLE	14263	ME
3	HIMANSHU	14271	ME
4	JATIN SHARMA	14276	ME
5	KARTIK KHARBANDA	14278	ME
6	PRINCE KUMAR	14284	ME
7	RICK DUTTA	14287	ME
8	SAGARMANI	14293	ME
9	SAURAV KUMAR SINGH	14296	ME
10	SHOURYA MISHRA	14299	ME
11	ANUSHEEL KAUL	14846	ME
12	YASH PANDEY	14300	ME
13	NISHANT PANDEY	14286	ME
14	NISHANT MISHRA	14279	ME
15	NEHAAL THAKUR	14269	ME

**Co-ordinator**  
**Mr. ASHISH KUSH**



Director  
Dronacharya Group of Institutions  
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**Head of the Department**  
**Mr. Shailesh Kumar**



Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

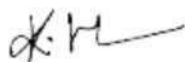
*This is to certify that*

**Mr./Ms.** ANUSHEEL KAUL **of** ME Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “2D/3D design & Modeling”*

*from 22nd-27th February 2021.*



**Prof. Kaustubh Kr. Shukla**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



*Director*

**Student Development Program**

**CERTIFICATE OF COMPLETION**

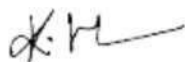
*This is to certify that*

**Mr./Ms.** ASHISH KAFLE **of** ME Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “2D/3D design & Modeling”*

*from 22nd-27th February 2021.*



**Prof. Kaustubh Kr. Shukla**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



*Director*



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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Student Development Program:**

**Title** 2D/3D Design & Modeling  
**Department** ME  
**Target Students** 2nd Year  
**Duration** 30 Hours  
**Dates** 22nd – 27th February 2021

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### **Course Modules**

<b>Module</b>	<b>Title</b>	<b>Content Overview</b>	<b>Hours</b>
1	Introduction to CAD Tools	Basics of CAD, UI of design software (e.g., AutoCAD, SolidWorks)	5
2	2D Drafting Techniques	Line, arc, circle, dimensioning, layers, annotations	5
3	3D Modeling Basics	Extrude, revolve, sweep, loft, and creating basic 3D components	5
4	Assembly Modeling	Mating parts, constraints, creating assemblies	5
5	Rendering and Visualization	Rendering tools, applying materials, lighting, and exploded views	5
6	Design Project & Documentation	Designing a mechanical component or assembly with drawings and report	5

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## Evaluation Scheme

Component	Description	Weightage
Quiz on CAD Fundamentals	Covers 2D and 3D concepts	20%
Practical Assignments	Drawing/modeling exercises	30%
Final Design Project	Complete design with assembly and documentation	40%
Presentation & Viva	Project presentation and individual evaluation	10%
<b>Total</b>		<b>100%</b>



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# DRONACHARYA

## Group of Institutions


B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 14th-19th September 2020

SDP on 3D Printing and Rapid Prototyping			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	ARYAN PANDEY	1823040002	ME
2	CHANDAN KUMAR MISHRA	1823040003	ME
3	GAURAV SETH	1823040004	ME
4	HIMANSHU VASHISHT	1823040005	ME
5	PRANJAL SHUKLA	1823040008	ME
6	SAGAR KUMAR VERMA	1823040009	ME
7	SUDHIR KUMAR MEHTO	1823040012	ME
8	TANISH KUMAR	1823040013	ME
9	YOGESH CHAUHAN	1823040014	ME
10	MANISH SINGH	1823040015	ME
11	PRASHANT	1823040016	ME
12	MEHUL	1823040018	ME
13	ALISHA	1823040019	ME
14	KARISHMA	1823040020	ME
15	DHANUK	1823040021	ME
16	SHRAY DESAI	1823040024	ME
17	AAINA	1823040025	ME
18	SAHIL	1823040026	ME
19	HIMMAT	1823040027	ME
20	GOKUL	1823040029	ME
21	DHARMAJAN	1823040032	ME
22	YUVRAJ	1823040033	ME

**Co-ordinator**  
**Mr. Deepak Kumar**

**Head of the Department**  
**Mr. Shailesh Kumar**

  
Director  
Dronacharya Group of Institutions  
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Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ARYAN PANDEY **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ 3D Printing and Rapid Prototyping”  
from 14th-19th September 2020.*



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*

  
Director

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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** TANISH KUMAR **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ 3D Printing and Rapid Prototyping”  
from 14th-19th September 2020.*



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*

  
Director



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 26th-31st October 2020

SDP on AI for Engineers: Concepts to Real-World Projects			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	ARPIT RASTOGI	14465	ECS
2	ASHISH KUMAR GUPTA	14666	ECS
3	DIVYANSHU KUMAR	14667	ECS
4	KM ANKITA	14668	ECS
5	SHIVANI SINGH	14670	ECS
6	ROHIT GUPTA	14671	ECS
7	JYOTI SHARMA	14673	ECS
8	JYOTI MISHRA	14675	ECS
9	POOJA PANDEY	14677	ECS
10	SHIVANI AGARWAL	14679	ECS
11	ANITA CHAUDHARY	14680	ECS
12	RAJESH PANDEY	14682	ECS
13	RAVI PANDEY	14683	ECS
14	PRIYA GUPTA	14684	ECS
15	NISHA VERMA	14685	ECS
16	RAVI CHAUDHARY	14686	ECS
17	NISHA RASTOGI	14687	ECS
18	SHIVANI RASTOGI	14689	ECS
19	RAJESH MISHRA	14690	ECS
20	RITU SHARMA	14692	ECS
21	RAVI SHARMA	14694	ECS
22	SUMIT GUPTA	14695	ECS
23	ROHIT SINGH	14696	ECS
24	ANIL GUPTA	14697	ECS
25	RAVI RASTOGI	14698	ECS
26	SHIVANI CHAUDHARY	14699	ECS
27	POOJA AGARWAL	14700	ECS
28	NISHA CHAUDHARY	14701	ECS
29	RITU SINGH	14702	ECS
30	AMIT PANDEY	14703	ECS
31	JYOTI VERMA	14704	ECS
32	RAVI SINGH	14706	ECS
33	VIJAY MISHRA	14707	ECS
34	DEEPAK RASTOGI	14708	ECS
35	SHIVANI PANDEY	14709	ECS
36	SWATI GUPTA	14710	ECS
37	ANKITA SHARMA	14711	ECS
38	ANKITA VERMA	14712	ECS
39	ARUN SINGH	14713	ECS
40	ABHISHEK VERMA	14714	ECS
41	POOJA CHAUDHARY	14715	ECS

Co-ordinator  
**Ms. Teena Gakhar**

Director  
 Dronacharya Group of Institutions  
 27, KP-III, Greater Noida-201306

Head of the Department  
**Dr. Sanghamitra V. Arora**

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** KM ANKITA **of** ECE Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “AI for Engineers: Concepts to Real-World Projects”  
from 26th-31st October 2020.*



**Prof. Sanghamitra V Arora**  
HoD



**Prof. (Dr.) Arpita Gupta**  
Director



**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** RAVI PANDEY **of** ECE Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “AI for Engineers: Concepts to Real-World Projects”  
from 26th-31st October 2020.*



**Prof. Sanghamitra V Arora**  
HoD



**Prof. (Dr.) Arpita Gupta**  
Director



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Student Development Program:**

**Title** AI for Engineers: Concepts to Real-World Projects  
**Department** ECZ  
**Target Students** 2nd Year  
**Duration** 30 Hours  
**Dates** 26th – 31st October 2020

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### **Course Modules**

<b>Module</b>	<b>Title</b>	<b>Content Overview</b>	<b>Hours</b>
1	Introduction to AI	Evolution of AI, key domains, ethical aspects	5
2	ML Foundations	Supervised/Unsupervised Learning, algorithms, model evaluation	5
3	Tools & Platforms	Python, Jupyter Notebook, scikit-learn, Google Colab	5
4	Data Preprocessing	Cleaning, transformation, feature extraction	5
5	Real-World Project	Problem definition, dataset selection, model development	5
6	Project Presentation & Feedback	Final project demo, team evaluation, oral presentation	5

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## Evaluation Scheme

Component	Description	Weightage
Quiz	Based on fundamentals of AI/ML	20%
Hands-on Lab Tasks	Data handling, model training/testing	30%
Final Mini Project	Real-world problem implementation	40%
Presentation & Viva	Project explanation & individual questions	10%
<b>Total</b>		<b>100%</b>



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DATE: 07th-12th December  
2020

### Certificate Program on Augmented reality List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	PAYAL PRIYADARSHINI JENA	1723010056	CSE
2	PRASHANT KUMAR	1723010060	CSE
3	SUDHIR KUMAR	1723010091	CSE
4	AAKASH VERMA	1723010001	CSE
5	AJAY PAL	1723010007	CSE
6	Anshul Sharma	1723010014	CSE
7	ARYAN RAWAT	1723010018	CSE
8	DEEPAK JOSHI	1723010021	CSE
9	Dhanajit kapali	1723010023	CSE
10	HARPREET SINGH	1723010030	CSE
11	JAIMIN SINGH	1723010036	CSE
12	kaushal vir jainer	1723010040	CSE
13	Mayank Bhardwaj	1723010044	CSE
14	MD KAUSHAR IQBAL	1723010045	CSE
15	PRANAY PANDEY	1723010058	CSE
16	RAJIV KUMAR	1723010068	CSE
17	RISHABH SINGH	1723010072	CSE
18	SHAGUFA MALLICK	1723010079	CSE
19	Shakti Priya Saurav	1723010081	CSE
20	Shubham Kumar	1723010085	CSE
21	SIMRAN SINGH	1723010088	CSE
22	SOMYA DAS	1723010089	CSE
23	UTKARSH AGGARWAL	1723010097	CSE
24	UTKARSH KASHYAP	1723010098	CSE

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25	vaishali sharma	1723010100	CSE
26	VIDIT MISRA	1723010101	CSE
27	VIKASH SHARMA	1723010102	CSE
28	VISHAL DOGRA	1723010104	CSE
29	VISHNU TRIPATHI	1723010105	CSE
30	HITRISHNA BORTHAKUR	1723010901	CSE
31	APOORVA SRIVASTAVA	1723010015	CSE
32	DIGVIJAY SINGH	1723010025	CSE
33	KRITIKA GOEL	1723010107	CSE
34	RAJAT TOMAR	1723010108	CSE
35	RAJESH MANKOTI	1723010109	CSE
36	RAVI SHANKAR YAD	1723010110	CSE
37	PREETI RANA	1723010111	CSE
38	PRASHANT SHARMA	1723010120	CSE
39	PRAVEEN YADAV	1723010121	CSE
40	SHAHBAAZ KHAN	1823010902	CSE
41	ADITYA RAJ	1823010903	CSE
42	ASHRAFUL HAQUE	1723011007	CSIT
43	ATIF AZEEZ	1723011008	CSIT
44	AASHIKA RASTOGI	1723011002	CSIT
45	ABHISHEK RAI	1723011004	CSIT
46	ANKUR	1723011006	CSIT
47	AYUSH KUMAR GUPTA	1723011010	CSIT
48	GAURAV TIWARI	1723011013	CSIT
49	Mohit Solanki	1723011023	CSIT
50	NISHA VERMA	1723011025	CSIT
51	OMKARESHWAR PANDA	1723011026	CSIT
52	PARAS SONI	1723011028	CSIT
53	PRANJUL SINGH RATHOE	1723011030	CSIT
54	ROBINS KUMAR	1723011032	CSIT
55	Tushar Thereja	1723011042	CSIT

56	VISHVA DIWAKAR	1723011047	CSIT
57	TANISHKA TIWARI	1723011049	CSIT
58	SARGAM	1723011057	CSIT
59	MANSI YADAV	1723011059	CSIT
60	RISHABH RAJ	1723011060	CSIT
61	LAKSHAY DABAS	1723011062	CSIT
62	HIMANSHU KUMAR	1723011064	CSIT
63	SHOEB AHMAD	1823011909	CSIT
64	RAVINDER SINGH	1823011911	CSIT

**Co-Ordinator**  
**Ms. Bhanu Bhardwaj**

**Head of the Deaprtment**  
**Mr. Bipin Pandey**



Director  
Dronacharya Group of Institutions  
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Greater Noida



**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*  
**Mr./Ms.** AJAY PAL *of* CSE Dept. (4th Year) *has successfully*  
*completed six days Student Development Program on*  
*“Augmented reality”*  
*from 07th-12th December 2020*

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*



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Greater Noida



**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. Mayank Bhardwaj of CSE Dept. (4th Year) has successfully  
completed six days Student Development Program on  
“Augmented reality”  
from 07th-12th December 2020*

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Director  
Dronacharya Group of Institutions  
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# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Augmented Reality**

**CSE Department | 4th Year | 30 Hours | December 7-12, 2020**

#### **Course Overview**

This program covers AR fundamentals, development frameworks, and practical application creation, equipping students with skills to design and implement AR solutions.

#### **Learning Outcomes**

1. Understand AR principles and technologies
2. Develop AR applications using industry frameworks
3. Implement effective tracking systems
4. Design intuitive AR user interfaces
5. Create functional AR applications for real-world use cases

#### **Schedule Summary**

- **Day 1:** AR Fundamentals, Hardware & Displays
- **Day 2:** Development Frameworks, 3D Graphics
- **Day 3:** Tracking Systems, Implementation Techniques
- **Day 4:** UX Design, Content Development
- **Day 5:** Industry Applications, Mobile AR Workshop
- **Day 6:** Project Work and Presentations

#### **Required Materials**

- AR-compatible smartphone
- Laptop with Unity3D



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## Evaluation Matrix

Component	Weight	Description
Daily Exercises	20%	Practical coding tasks
AR Analysis	15%	Application case studies
Technical Quiz	15%	Theoretical assessment
Final Project	45%	AR application development
Participation	5%	Active engagement



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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 05th-10th April 2021

SDP on Basics of React JS			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	ADITYA RANJAN	2002300100013	CSE
2	AJIT KUMAR	2002300100015	CSE
3	AKASH MAURYA	2002300100016	CSE
4	ANKITA	2002300100032	CSE
5	AVAYA SHARMA	2002300100043	CSE
6	AYUSH GARG	2002300100046	CSE
7	CHIRAG MITTAL	2002300100056	CSE
8	HARSH RAJ SINHA	2002300100069	CSE
9	HIMANSHU	2002300100072	CSE
10	MANSI DHAWAN	2002300100094	CSE
11	MONALISA SAMAL	2002300100099	CSE
12	PRAJWAL CHAUHAN	2002300100113	CSE
13	PRIYANSHU KUMAR	2002300100121	CSE
14	SAHIL BHATIA	2002300100139	CSE
15	SHAIKENDRA KUMAR	2002300100144	CSE
16	SHASHANK YADAV	2002300100149	CSE
17	SUMIT SAINI	2002300100167	CSE
18	TUSHAR KUMAR	2002300100179	CSE
19	VAIBHAV PRATAP SINGH	2002300100183	CSE
20	VAIBHAV SINGH RAWAT	2002300100185	CSE
21	YASH KAPOOR	2002300100195	CSE
22	MUSKAN	2002300109009	CSE
23	MOHAN CHAUDHARY	2002300100097	CSE
24	SHASHANK PANDEY	2002300100148	CSE
25	BHUMIKA BANSAL	2002300100052	CSE
26	SHREYA SANYAL	2002300100158	CSE
27	AARYAN BHARDWAJ	2002300110001	CSIT
28	ABHISHEK MOURYA	2002300110002	CSIT
29	AKHILESH CHAURASIYA	2002300110004	CSIT
30	PANKAJ KHANI	2002300110028	CSIT
31	PRIYANSHU PANDEY	2002300110030	CSIT
32	TANIKA VAISHNAV	2002300110047	CSIT
33	VISHAL CHAUHAN	2002300110052	CSIT
34	NITESH PANDEY	2002300110024	CSIT
35	RAKESH MISHRA	2002300111845	CSIT
36	RITU AGARWAL	2002300117741	CSIT

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37	POOJA JADHAV	2002300115143	CSIT
38	POOJA AGARWAL	2002300115335	CSIT
39	APOORVA KUMAR	2002300219001	EEE
40	POOJA VERMA	2002300217909	EEE
41	RAVI VALMIKI	2002300217570	EEE
42	ANIL SINGH	2002300315689	ECE
43	SWATI SHARMA	2002300310066	ECE
44	TUSHAR KUMAR	2002300319387	ECE
45	AMIT VERMA	2002300317765	ECE
46	AMIT KUMAR	2002300314409	ECE
47	HIMANI SHARMA	2002300009009	ECZ
48	ANITA THAKUR	2002300009025	ECZ
49	ROHIT CHAUDHARY	2002300009027	ECZ
50	POOJA THAKUR	2002300009030	ECZ
51	SHIVANI MEENA	2002300009040	ECZ
52	SUMIT VALMIKI	2002300009047	ECZ
53	SNEHA GUPTA	2002300009062	ECZ
54	AAYUSH MISHRA	2002300130001	IT
55	HARSHVARDHAN NATH TIWAR	2002300130007	IT
56	RAVI SHANKAR LAWANIYA	2002300130011	IT
57	SUDHANSHU RANJAN	2002300130016	IT
58	DHARMENDRA SINGH	2002300130020	IT
59	VISHAL SHARMA	2002300400008	ME
60	MANISH RAJPUT	2002300400056	ME
61	AMIT THAKUR	2002300409009	ME
62	RAVI RAJPUT	2002300409011	ME
63	RAMESH JADHAV	2002300408483	ME
64	ISHANK MEENA	2002300408323	ME
65	PRIYAM CHAUDHARY	2002300400347	ME

**Co-ordinator**  
**Mr. Shantanu Pant**

**Head of the Department**  
**Dr. Pawan Kumar Sharma**

  
Director

Dronacharya Group of Institutions  
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Director

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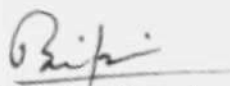
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** AMIT THAKUR **of** CSE Dept. (1st Year)  
*has successfully Participated in Six days SDP on “ Basics of React JS ”*  
*on 05th-10th April 2021.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



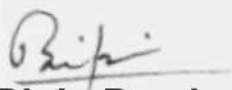
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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ISHANK MEENA **of** CSE Dept. (1st Year)  
*has successfully Participated in Six days SDP on “ Basics of React JS ”*  
*on 05th-10th April 2021.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
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# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Student Development Program (SDP): Basics of React JS**

**Target Students:** 1st Year

**Duration:** 30 Hours

**Dates:** 05th–10th April 2021

**Organized by:** APS Department

### **Course Module**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>	<b>Hours</b>
1	Introduction to React JS	What is React, history, environment setup, tools (Node.js, npm, VS Code)	5
2	JSX and Components	JSX syntax, functional & class components, props and state	6
3	Handling Events and Lifecycle	Event handling, lifecycle methods, conditional rendering	5
4	Lists, Keys, and Forms	Rendering lists, using keys, handling user input through forms	5
5	Routing and State Management	React Router basics, intro to useState and useEffect hooks	5
6	Mini Project & Hands-on Lab	Building a small interactive React application	4



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## Evaluation Matrix

Component	Weightage
Quiz 1 (React Basics)	20%
Quiz 2 (JSX & Components)	20%
Lab Assignments	25%
Final Project	35%
<b>Total</b>	<b>100%</b>



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 15th to 20th  
February, 2021

### **SDP on Battery Technology and Energy Storage Systems**

#### **List of Participants Online SDP**

<b>S.NO</b>	<b>Name of the Students</b>	<b>Roll No.</b>	<b>Dept.</b>
1	BRIJESH YADAV	12326	ME
2	HIMANSH TRIPATHI	12334	ME
3	JAYDEEP SINGH	12339	ME
4	KARANJOT SINGH	12340	ME
5	KARTIK SHARMA	12341	ME
6	MOHAMMAD RASHID	12342	ME
7	MOHIT DIXIT	12343	ME
8	MUDIT BANSAL	12344	ME
9	NEERAJ KUMAR CHAUDHARY	12345	ME
10	PRADEEP KUMAR	12346	ME
11	PRATIK KUMAR	12333	ME

**Co-Ordinator**

**Ms. Krati Hardy**

**Head of the Department**

**Mr. Shailesh Kumar Singh**

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. BRIJESH YADAV of ME Dept. (Final Year)**

*has successfully completed six days*

***Student Development Program on “Battery Technology and Energy  
Storage Systems” from 15<sup>th</sup> to 20<sup>th</sup> February, 2021.***



**Ms. Krati Hardya**  
Co-ordinator



**Dr. Shailesh Kumar Singh**  
H.O.D



**Prof. (Dr.) Arpita Gupta**  
Director





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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. JAYDEEP SINGH of ME Dept. (Final Year)**

*has successfully completed six days*

***Student Development Program on “Battery Technology and Energy  
Storage Systems” from 15<sup>th</sup> to 20<sup>th</sup> February, 2021.***



**Ms. Krati Hardya**  
Co-ordinator



**Dr. Shailesh Kumar Singh**  
H.O.D



**Prof. (Dr.) Arpita Gupta**  
Director



B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

## **Certificate Program on Battery Technology and Energy Storage Systems**

**Department of Mechanical Engineering | 4th Year | 30 Hours | February 15-20, 2021**

### **Course Overview**

This 30-hour certificate program provides comprehensive knowledge on battery technologies and energy storage systems, covering fundamentals, design considerations, manufacturing processes, applications, and emerging trends. Students will gain practical skills through laboratory demonstrations and a final project focusing on energy storage system design.

### **Learning Outcomes**

1. Explain fundamental principles of electrochemical energy storage
2. Analyze performance characteristics of various battery technologies
3. Design basic battery management systems
4. Evaluate energy storage solutions for specific applications
5. Apply thermal management techniques for battery systems
6. Understand manufacturing processes and quality control methods

### **Course Schedule (30 Hours)**

#### **Day 1: Monday, February 15, 2021**

- **Morning (3 hrs):** Fundamentals of Electrochemistry and Battery Principles
- **Afternoon (2 hrs):** Battery Types and Characteristics (Lead-acid, Ni-Cd, Ni-MH)

#### **Day 2: Tuesday, February 16, 2021**

- **Morning (3 hrs):** Lithium-ion Battery Technology and Advancements
- **Afternoon (2 hrs):** Battery Material Science and Cell Design

#### **Day 3: Wednesday, February 17, 2021**

- **Morning (3 hrs):** Battery Management Systems and Control Strategies
- **Afternoon (2 hrs):** Thermal Management for Battery Systems

#### **Day 4: Thursday, February 18, 2021**

- **Morning (3 hrs):** Manufacturing Processes and Quality Control
- **Afternoon (2 hrs):** Battery Testing, Characterization, and Safety



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**Day 5: Friday, February 19, 2021**

- **Morning (3 hrs):** Grid-Scale Energy Storage Systems
- **Afternoon (2 hrs):** Electric Vehicle Battery Systems and Integration

**Day 6: Saturday, February 20, 2021**

- **Morning (3 hrs):** Emerging Energy Storage Technologies
- **Afternoon (2 hrs):** Project Presentations and Course Wrap-up

**Required Materials**

- Laptop with battery simulation software
- Calculator
- Safety equipment for laboratory demonstrations



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## Evaluation Matrix

Assessment Component	Weight	Description
Daily Quizzes	20%	Short daily assessments covering previous day's material
Laboratory Reports	20%	Documentation and analysis of laboratory demonstrations
Case Study Analysis	20%	Individual analysis of real-world battery implementation
Final Project	30%	Design of an energy storage system for a specific application
Participation	10%	Active engagement in discussions and activities

## Grading Scale

- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: Below 60%

## Final Project Assessment Criteria

Criteria	Weight	Description
Technical Accuracy	30%	Correctness of technical concepts and calculations
Design Methodology	25%	Systematic approach to energy storage system design
Innovation	15%	Creative solutions and integration of emerging technologies
Feasibility	20%	Practical implementation potential and constraints analysis
Presentation	10%	Clear communication of design concepts and decisions



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## **Certificate Program on Battery Technologies and Thermal Management**

**Target Students:** 3rd-year EEE students

**Duration:** 30 hours

**Dates:** 22nd-27th February 2021

**Department:** Electrical and Electronics Engineering (EEE)

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### **Program Outline:**

#### **Module 1: Introduction to Battery Technologies (5 hours)**

- **Overview of Battery Technologies**
  - Types of batteries: Lead-acid, Lithium-ion, Nickel-based
  - Applications in various industries (automotive, renewable energy, etc.)
- **Battery Chemistry & Working Principle**
  - Electrochemical reactions
  - Battery performance factors (capacity, energy density, cycle life)

#### **Module 2: Battery Manufacturing and Design (5 hours)**

- **Battery Design Considerations**
  - Cell design, module design, and pack design
  - Factors influencing battery life, safety, and performance
- **Battery Manufacturing Process**
  - Materials used in battery production
  - Quality control and testing methods

#### **Module 3: Thermal Management of Batteries (5 hours)**

- **Importance of Thermal Management in Battery Performance**
  - Impact of temperature on battery life and efficiency
- **Methods of Thermal Management**
  - Passive and active cooling systems
  - Thermal insulation and heat dissipation techniques

#### **Module 4: Battery Energy Storage Systems (BESS) (5 hours)**

- **Overview of BESS**
  - Integration of batteries in renewable energy systems (solar, wind)
  - Applications in grid balancing and energy storage
- **Design and Control of BESS**



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- Battery management systems (BMS)
- Energy management strategies

### **Module 5: Battery Charging and Safety (5 hours)**

- **Charging Methods**
  - Constant current, constant voltage charging
  - Fast charging and wireless charging technologies
- **Battery Safety**
  - Overcharging, deep discharge, and thermal runaway
  - Safety standards and regulations (e.g., UN38.3, IEC)

### **Module 6: Emerging Trends in Battery Technologies (5 hours)**

- **Advanced Battery Technologies**
  - Solid-state batteries
  - Lithium-sulfur and sodium-ion batteries
- **Future of Battery Thermal Management**
  - Innovative cooling methods (phase-change materials, micro-channel cooling)
  - Impact of AI and machine learning on battery optimization

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### **Assessment:**

- **Quizzes:** After each module to assess understanding
- **Assignments:** Practical assignments on battery design and thermal management systems
- **Final Exam:** A theoretical exam covering all modules



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## Evaluation Matrix

Component	Details	Weightage
Quiz on Cyber Concepts	Fundamentals of hacking and security	20%
Lab Assignments	Vulnerability scanning, password cracking	25%
Tool Demonstration	Wireshark/Nmap/Metasploit usage	30%
Viva and Engagement	Q&A, hands-on discussion	25%
<b>Total</b>		<b>100%</b>



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

**DATE: 18th-23rd January 2021**

<b>Certicate Program on Role of the blockchain</b>			
<b>List of Participants Online SDP</b>			
<b>S.NO</b>	<b>Name of the Students</b>	<b>Roll No.</b>	<b>Dept.</b>
1	AMAAN ZAIDI	14006	CSE
2	AMAN NAUTIYAL	14007	CSE
3	AMIT CHAURASIYA	14010	CSE
4	ANKIT NEGI	14014	CSE
5	ANKUR PRATAP SINGH	14015	CSE
6	AVIJIT PANDA	14020	CSE
7	AYUSH SRIVASTAVA	14022	CSE
8	DEEPAK DUA	14029	CSE
9	DEVANSHU VERMA	14030	CSE
10	DIPANSHU KUMAR	14032	CSE
11	DIVYANSHU AGARWAL	14033	CSE
12	GANESH SHANKAR TRIPATHI	14035	CSE
13	GATIQ DOULTANI	14036	CSE
14	HARSH SHARMA	14039	CSE
15	HARSHIT PANDEY	14040	CSE
16	HRITIK GUPTA	14042	CSE
17	JANHVI SHUKLA	14043	CSE
18	JAY BARDHAN TIWARI	14044	CSE
19	KARAN RAJPUT	14045	CSE
20	KM ARTI GUPTA	14047	CSE
21	LAIBA TAHSEEN	14050	CSE
22	LAV RAJPUT	14051	CSE
23	MOHIT SINGH BISHT	14056	CSE
24	NAVDEEP SINGH	14061	CSE
25	NISHANT GUPTA	14065	CSE
26	PAWAN PAL	14069	CSE
27	PRABHAV GOEL	14071	CSE
28	PRAKARSH WELEWAR	14072	CSE
29	RAHUL THAKRAL	14079	CSE
30	RITIKA JOSHI	14081	CSE
31	ROHIT KUMAR	14082	CSE
32	ROHIT MISHRA	14083	CSE
33	SATYAM SINGH	14092	CSE
34	SAURABH	14093	CSE
35	SHIKHA SHARMA	14094	CSE
36	SHIVAM KUMAR RAI	14095	CSE
37	SNEHA AGGARWAL	14099	CSE
38	SONALI SINGH	14101	CSE
39	SPARSH JAIN	14104	CSE
40	SUJAL PANWAR	14105	CSE

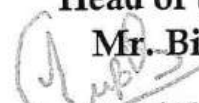
41	SUMIT MISHRA	14106	CSE
42	VAIBHAV NEGI	14111	CSE
43	YASH BHARGAV	14119	CSE
44	ANEETA GUPTA	14122	CSE
45	SWASTIK SINGH	14124	CSE
46	AKAR SHARMA	14130	IT
47	AKSHAT LAMBA	14133	IT
48	RITESH KUMAR	14139	IT
49	SACHIN SAGAR	14143	IT
50	JYOTIKA PANDEY	14128	IT
51	AMIT THAKUR	14131	IT
52	ANIL SHARMA	14135	IT
53	PRIYA SHARMA	14138	IT
54	SHIVANI VERMA	14140	IT
55	NISHA AGARWAL	14141	IT
56	DEEPAK CHAUDHARY	14145	IT
57	ARUN CHAUDHARY	14147	IT
58	ARUN THAKUR	14152	IT
59	VIJAY THAKUR	14153	IT
60	AAYUSH GOGIA	14416	CSIT
61	AJEET KUMAR	14401	CSIT
62	AMAN KUMAR	14406	CSIT
63	ANANYA	14410	CSIT
64	ASHUTOSH	14414	CSIT
65	GAURAV RATHI	14418	CSIT
66	ANISHKA	14422	CSIT
67	KUNAL	14424	CSIT
68	MANU AGGARWAL	14426	CSIT
69	MONISHA SINGH	14427	CSIT
70	PRACHI MALGUDI	14429	CSIT
71	PRANJAL BHARDWAJ	14430	CSIT
72	RAHUL	14432	CSIT
73	RATIKA SWAMI	14434	CSIT
74	ROHAN KAMAL	14436	CSIT
75	SAGAR SINGH	14438	CSIT
76	SHIVAM HALDAR	14444	CSIT
77	SURAJ	14446	CSIT
78	SURAJ PANDEY	14447	CSIT
79	TUSHAR CHAUHAN	14449	CSIT
80	VIPIN SHARMA	14451	CSIT
81	ANAND KUMAR	14452	CSIT
82	ROHIT AGARWAL	14454	CSIT
83	NEHA VERMA	14456	CSIT
84	PRIYA CHAUDHARY	14458	CSIT
85	SWATI AGARWAL	14460	CSIT

**Co-ordinator**  
**Mr. Hridesh Gupta**

  
Director

Dronacharya Group of Institutions  
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**Head of the Department**  
**Mr. Bipin Pandey**

  
Director

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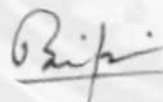
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. AMIT CHAURASIYA of CSE Dept. (2nd Year)  
has successfully completed six days  
Student Development Program on  
“ Role of the blockchain ” from 18th-23rd January 2021.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director





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**Student Development Program**

**CERTIFICATE OF COMPLETION**

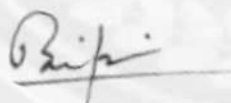
*This is to certify that*

*Mr./Ms. DEEPAK DUA of CSE Dept. (2nd Year)*

*has successfully completed six days*

*Student Development Program on*

*“ Role of the blockchain ” from 18th-23rd January 2021.*



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program on Role of the Blockchain

- **Organizers:** Department of CSE & Related Branches
- **Target Students:** 2nd Year
- **Duration:** 36 Hours
- **Dates:** 18th – 23rd January 2021

### Program Objective

This program introduces students to the foundational concepts of blockchain technology, its architecture, and its transformative potential across industries. The aim is to develop technical understanding and explore real-world use cases.

### Course Content Overview

Module	Topic	Key Focus Areas
Module 1	Introduction to Blockchain	History, distributed ledger technology, need for decentralization
Module 2	Blockchain Architecture	Blocks, hashing, consensus mechanisms (PoW, PoS), smart contracts
Module 3	Cryptography in Blockchain	Hash functions, digital signatures, public/private key infrastructure
Module 4	Blockchain Platforms	Ethereum, Hyperledger, Bitcoin – technical overviews
Module 5	Use Cases & Industry Applications	Supply chain, healthcare, finance, identity management
Module 6	Hands-on & Capstone Presentation	Smart contract demo (Solidity), group-based mini-project on real-world application



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## Evaluation Matrix

Component	Description	Weightage
Quiz on Fundamentals	Concepts of blockchain and cryptography	20%
Practical Assignment	Smart contract coding or simulation task	25%
Case Study/Use-Case Report	Industry use case analysis	25%
Final Group Presentation	Mini-project demonstration & Q&A	30%
<b>Total</b>		<b>100%</b>



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## Group of Institutions

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 22nd-27th February 2021

Certificate Program on Cognitive Radio Networks			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	AAYUSH PAREEK	1823031001	ECE
2	AJAY SINGH PANWAR	1823031003	ECE
3	AVNEESH DUBEY	1823031004	ECE
4	GAURAV PANDEY	1823031005	ECE
5	SWARNA SINGH	1823031007	ECE
6	VIKASH KUMAR	1823031008	ECE
7	YOGESH	1823031009	ECE
8	KARAN BARMAN	1823031011	ECE
9	IRA	1823031012	ECE
10	SANA	1823031013	ECE
11	ADVIKA GOYAL	1823031014	ECE
12	ZEESHAN	1823031017	ECE
13	ADVIK	1823031018	ECE
14	MEHUL SINGH	1823031019	ECE
15	STUTI SHARMA	1823031020	ECE
16	SAIRA	1823031021	ECE
17	IVAN	1823031022	ECE
18	KARTIK	1823031023	ECE
19	UTHKARSH	1823031024	ECE
20	YASHVI	1823031025	ECE
21	BABITA	1823031026	ECE
22	ABHISHEK SINGH	1823031027	ECE
23	KIMAYA	1823031028	ECE
24	HIMMAT	1823031030	ECE
25	SAHIL	1823031032	ECE
26	AARYAHI	1823031033	ECE
27	TRISHA	1823031036	ECE
28	TAIMUR	1823031037	ECE
29	CHARVI	1823031038	ECE
30	ADVIKA	1823031039	ECE
31	RHEA	1823031040	ECE
32	HRISHITA	1823031043	ECE
33	ISHAAN	1823031044	ECE
34	SARA	1823031045	ECE
35	MEHUL	1823031046	ECE
36	PRIYANSHU PALLAV	1823031047	ECE
37	ANKUR DHAMA	1823031048	ECE
38	YOGITA SHARMA	1823031049	ECE
39	RIAN	1823031050	ECE

Co-ordinator  
Dr. Pranay Bhadauria

Head of the Department  
Dr. Sanghamitra V. Arora

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** AAYUSH PAREEK **of** ECE Dept. (3rd Year)

*has successfully completed six days Student Development*

*Program on “ Cognitive Radio Networks”*

*from 22nd-27th February 2021.*



**Prof. Sanghamitra V Arora**  
HoD



**Prof. (Dr.) Arpita Gupta**  
Director





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## Student Development Program

## CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** YOGESH **of** ECE Dept. (3rd Year)

*has successfully completed six days Student Development*

**Program on “ Cognitive Radio Networks”**

*from 22nd-27th February 2021.*

Prosa.

**Prof. Sanghamitra V Arora**  
*HOD*

*Arub*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Ans

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## **Certificate Program on Cognitive Radio Networks**

**Target Students:** 3rd-year ECE students

**Duration:** 30 hours

**Dates:** 14th-19th September 2020

**Department:** Electronics and Communication Engineering (ECE)

### **Program Outline:**

#### **Module 1: Introduction to Cognitive Radio Networks (5 hours)**

- **Overview of Cognitive Radio**
  - Definition and features of Cognitive Radio (CR)
  - Traditional spectrum management vs. Cognitive Radio approach
- **Cognitive Radio Network Architecture**
  - Key components: Software-defined radio (SDR), spectrum sensing, dynamic spectrum access
  - Types of Cognitive Radio Networks (CRNs): Ad-hoc, infrastructure-based

#### **Module 2: Spectrum Sensing and Management (5 hours)**

- **Spectrum Sensing Techniques**
  - Energy detection, matched filter detection, cyclostationary feature detection
  - Challenges in spectrum sensing: noise, interference, and multipath fading
- **Spectrum Management Strategies**
  - Dynamic spectrum access (DSA)
  - Spectrum handoff and mobility management
  - Cognitive radio algorithms for spectrum allocation

#### **Module 3: Signal Processing Techniques in Cognitive Radio (5 hours)**

- **Signal Processing in CRNs**
  - Adaptive filtering, interference cancellation, and equalization techniques
- **Cognitive Radio Signal Processing Challenges**
  - Spectrum sensing errors, false alarm probability, and detection probability
  - Mitigation techniques for signal processing challenges

#### **Module 4: Cognitive Radio Network Protocols (5 hours)**

- **MAC Layer Protocols for CRNs**
  - Sensing-based protocols, contention-based protocols, and cooperative CRNs
  - Cross-layer design for efficient communication in CRNs
- **Routing in CRNs**
  - Challenges in routing for dynamic spectrum environments
  - Routing protocols and strategies specific to CRNs

#### **Module 5: Security and Privacy in Cognitive Radio Networks (5 hours)**

- **Security Challenges in CRNs**
  - Jamming attacks, eavesdropping, and interference
  - Authentication and encryption in CRNs
- **Privacy Issues in CRNs**
  - Protecting user identity and location privacy
  - Secure spectrum management protocols

#### **Module 6: Applications and Future of Cognitive Radio Networks (5 hours)**

- **Applications of CRNs**
  - CRNs in wireless communications, Internet of Things (IoT), and vehicular networks
  - Spectrum sharing in 5G networks
- **Future Trends**
  - Integration with artificial intelligence (AI) and machine learning (ML)
  - Cognitive radio in 6G and beyond
  - Software-defined networking (SDN) and CRNs



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## Evaluation Matrix:

Evaluation Component	Description	Weightage (%)
Module Quizzes	Short quizzes at the end of each module to assess students' understanding of the topics covered.	30%
Assignments	Practical assignments on spectrum sensing, CRN protocols, and signal processing techniques.	30%
Final Exam	A comprehensive exam covering all modules, designed to test theoretical knowledge and problem-solving ability in Cognitive Radio Networks.	40%

## Breakdown of Weightage for Each Evaluation Component:

### 1. Module Quizzes (30%)

- Each module will have a quiz to evaluate the student's grasp of fundamental concepts.
- **Format:** Multiple choice questions (MCQs), short-answer questions, and case studies.
- **Weightage Distribution:**
  - Module 1 (Introduction to Cognitive Radio Networks) - 5%
  - Module 2 (Spectrum Sensing and Management) - 5%
  - Module 3 (Signal Processing Techniques in Cognitive Radio) - 5%
  - Module 4 (Cognitive Radio Network Protocols) - 5%
  - Module 5 (Security and Privacy in Cognitive Radio Networks) - 5%
  - Module 6 (Applications and Future of Cognitive Radio Networks) - 5%

### 2. Assignments (30%)

- Students will complete hands-on assignments related to designing and simulating aspects of CRNs.
- **Assignment 1:** Spectrum sensing and management techniques.
- **Assignment 2:** Cognitive radio MAC layer protocols design and analysis.
- **Assignment 3:** Security protocols and mitigation techniques for CRNs.
- **Format:** Problem-solving tasks, simulations, and design-based exercises.

### 3. Final Exam (40%)

- A comprehensive written exam that tests both theoretical and practical aspects of Cognitive Radio Networks.
- **Format:**
  - Multiple-choice questions
  - Short-answer questions
  - Long-answer and problem-solving questions based on CRN algorithms, security, and applications.

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DATE: 15th-20th March 2021

### Certificate Program on Hazards of computer viruses.

#### List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	ABHISHEK PANDEY	14002	CSE
2	AJAY RAI	14003	CSE
3	AMAN VERMA	14008	CSE
4	ANIKET DAS	14012	CSE
5	ANKUR SINGH	14016	CSE
6	AYUSH SRIVASTAVA	14022	CSE
7	BHAVESH JHA	14024	CSE
8	BIPIN KUMAR	14025	CSE
9	CHIRAG	14026	CSE
10	CHIRAG GUPTA	14027	CSE
11	DAKSHITA VERMA	14028	CSE
12	DHRUV SHARMA	14031	CSE
13	DIVYANSHU SINGH	14034	CSE
14	GIRISHA BAWA	14037	CSE
15	HARSH PANDEY	14038	CSE
16	HIMANSHU MALWAL	14041	CSE
17	JANHVI SHUKLA	14043	CSE
18	JAY BARDHAN TIWARI	14044	CSE
19	KHYATI SHARMA	14046	CSE
20	KRIKA SAXENA	14048	CSE
21	LAIBA TAHSEEN	14050	CSE
22	MADHAV KAUSHIK	14052	CSE
23	MOHIT DHINGRA	14055	CSE
24	MUNENDER PRATAP SINGH	14059	CSE
25	NAZIA SHAMIM	14062	CSE
26	NIKHIL SRIVASTAV	14064	CSE
27	NISHANT SHARMA	14066	CSE
28	PANKAJ	14067	CSE
29	PARTH NARANG	14068	CSE
30	PIYUSH ANAND	14070	CSE
31	PRASHANT KASHYAP	14073	CSE
32	PRIYANKA PRASAD	14076	CSE
33	RAVI PRATAP	14080	CSE

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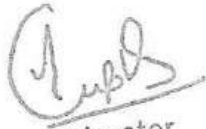


34	ROHIT KUMAR	14082	CSE
35	SAGAR	14085	CSE
36	SAHIL KHAN	14086	CSE
37	SATYAM SINGH	14092	CSE
38	SAURABH	14093	CSE
39	SONALI PAL	14100	CSE
40	SPARSH GOYAL	14102	CSE
41	SPARSH GOYAL	14103	CSE
42	SUJAL PANWAR	14105	CSE
43	MD.TALIB KHAN	14107	CSE
44	TANU TYAGI	14108	CSE
45	TITHI ADAK	14109	CSE
46	UMASHANKAR YADAV	14110	CSE
47	VANSHIKA JAIN	14112	CSE
48	VARUN SINGH	14113	CSE
49	VASU MEHTA	14114	CSE
50	VIKRANT KUMAR TANWAR	14116	CSE
51	VISHAL KHANNA	14117	CSE
52	VISHAL KUMAR	14118	CSE
53	AJAY KUMAR	14802	CSE
54	YUVRAJ BHARDWAJ	14121	CSE
55	PUJA VERMA	14123	CSE
56	NEETU RASTOGI	14125	CSE
57	ABHISHEK KUMAR MEHATO	14127	IT
58	AKSHAT LAMBA	14133	IT
59	AMAN BABAN DALVI	14136	IT
60	RITESH KUMAR	14139	IT
61	SACHIN SAGAR	14143	IT
62	POORNIMA VERMA	14142	IT
63	JYOTIKA PANDEY	14128	IT
64	JYOTI GUPTA	14129	IT
65	AMIT SHARMA	14132	IT
66	RAVI GUPTA	14134	IT
67	POOJA GUPTA	14137	IT
68	PRIYA SHARMA	14138	IT
69	NISHA AGARWAL	14141	IT
70	SUMIT SHARMA	14144	IT
71	PRIYA SINGH	14146	IT
72	SUMIT AGARWAL	14148	IT
73	RAJESH CHAUDHARY	14149	IT
74	ARUN VERMA	14150	IT
75	DEEPAK PANDEY	14151	IT
76	POOJA THAKUR	14154	IT
77	ABHISHEK KUMAR	14413	CSIT
78	AMAAN HAROON	14402	CSIT
79	AMAN AGGARWAL	14403	CSIT
80	AMAN JAIN	14405	CSIT
81	AMISHA RAWAT	14407	CSIT

82	AMITA RAWAT	14409	CSIT
83	ARYAN	14411	CSIT
84	ARYAN GUPTA	14412	CSIT
85	AYUSH KAUSHAL	14415	CSIT
86	BHANUSHREE	14417	CSIT
87	DEEPAK SHARMA	14419	CSIT
88	KAVYA VERMA	14423	CSIT
89	MANIT GOYAL	14425	CSIT
90	MRITUNJAI	14428	CSIT
91	PRANJAL BHARDWAJ	14430	CSIT
92	PRASHANT BANSAL	14431	CSIT
93	RAHUL	14432	CSIT
94	RASHMI SHARMA	14433	CSIT
95	RIDDHI GUPTA	14435	CSIT
96	RONI BHATTACHARYA	14437	CSIT
97	SAMEER AGGARWAL	14439	CSIT
98	SAURAV SEHRAWAT	14440	CSIT
99	SHAILESH TRIPATHI	14441	CSIT
100	SHIVAM CHAUHAN	14443	CSIT
101	SHIVAM HALDAR	14444	CSIT
102	SNEHA	14445	CSIT
103	SURAJ PANDEY	14447	CSIT
104	TUSHAR ARYA	14448	CSIT
105	ANITA THAKUR	14455	CSIT
106	JYOTI CHAUDHARY	14457	CSIT
107	PRIYA CHAUDHARY	14458	CSIT
108	POOJA MISHRA	14459	CSIT
109	SWATI AGARWAL	14460	CSIT
110	ANKITA PANDEY	14461	CSIT

**Co-ordinator**  
**Mr. Bhuvnesh Chaturvedi**

**Head of the Department**  
**Mr. Bipin Pandey**

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Group of Institutions  
Greater Noida

**Student Development Program**

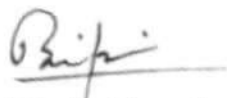
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** CHIRAG GUPTA **of** CSE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “Hazards of  
computer viruses.” from 15th-20th March 2021*



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*





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Group of Institutions  
Greater Noida

**Student Development Program**

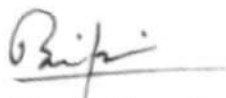
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** DAKSHITA VERMA **of** CSE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “Hazards of  
computer viruses.” from 15th-20th March 2021*



**Dr. Bipin Pandey**  
*HOD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



## Certificate Program on Hazards of Computer Viruses

- **Organized by:** Department of CSE & Related Branches
- **Target Students:** 2nd Year
- **Duration:** 36 Hours
- **Dates:** 15th – 20th March 2021

### Program Overview

This certificate program introduces students to the evolving landscape of computer viruses and malware. It equips them with foundational knowledge of threats, prevention mechanisms, and real-world incident handling to build cybersecurity awareness and practical defense skills.

### Course Structure

Day	Topic	Highlights
Day 1	Introduction to Computer Viruses	Virus types, history, how viruses spread, famous virus outbreaks
Day 2	Malware Landscape	Worms, Trojans, Ransomware, Rootkits
Day 3	Virus Detection Techniques	Antivirus software, signature-based vs behavior-based detection
Day 4	Real-World Case Studies	NotPetya, WannaCry, Stuxnet – how they worked and their impacts
Day 5	Preventive Measures & Best Practices	Firewalls, regular updates, secure browsing/email practices
Day 6	Practical Session & Cyber Hygiene Workshop	Hands-on: Simulating malware behavior in sandboxed environments

### Assessment & Evaluation

Component	Weightage
Quiz on Malware Types	20%
Lab Activities	25%
Case Study Report	25%
Final Cyber Awareness Presentation	30%
<b>Total</b>	<b>100%</b>

  
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Dronacharya Group of Institutions  
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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 24th-29th May 2021

### SDP on HTML, JavaScript

### List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	ADITYA SINGH	2002300100014	CSE
2	AKRISHT PATHAK	2002300100018	CSE
3	AKRITI DAS	2002300100019	CSE
4	AKSHAY KUMAR SHARMA	2002300100021	CSE
5	ANISH KUMAR THAKUR	2002300100024	CSE
6	ANKIT SAXENA	2002300100030	CSE
7	ANSHIKA BISHT	2002300100035	CSE
8	ANURAG GOEL	2002300100037	CSE
9	ANUSHA RAMKUMAR KOMMURU	2002300100038	CSE
10	ASHUTOSH NISHAD	2002300100041	CSE
11	AYUSH	2002300100045	CSE
12	AYUSH MISHRA	2002300100048	CSE
13	BHASKAR CHAUHAN	2002300100051	CSE
14	DEVESH KUMAR	2002300100059	CSE
15	DRISHTI SHARMA	2002300100062	CSE
16	GAUTAM NEGI	2002300100066	CSE
17	GOMSI SHARMA	2002300100067	CSE
18	HARSHITA SHARMA	2002300100070	CSE
19	HARSHWARDHAN CHUNI	2002300100071	CSE
20	HIMANSHU SARASWAT	2002300100073	CSE
21	ISHAAN GAMBHIR	2002300100075	CSE
22	JAYSHREE UPADHYAY	2002300100078	CSE
23	JHANVI GUPTA	2002300100079	CSE
24	KARAN NEGI	2002300100081	CSE
25	KHUSHI JAIN	2002300100083	CSE
26	KUSH KAPOOR	2002300100086	CSE
27	LARAIB AHMAD KHAN	2002300100088	CSE
28	MANOJ KUMAR THAKUR	2002300100093	CSE
29	MANVI CHAUHAN	2002300100095	CSE
30	MUKUL PANWAR	2002300100100	CSE
31	NANDANI	2002300100101	CSE
32	NEHA SRIVASTAVA	2002300100104	CSE
33	NIKHIL RATHAUR	2002300100106	CSE
34	PRARTHANA JHA	2002300100115	CSE
35	PRATEEK BHATI	2002300100116	CSE
36	PRIYANKA VAISHNAV	2002300100120	CSE
37	PRIYANSHU KUMAR	2002300100121	CSE
38	PURVA SHARMA	2002300100123	CSE

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39	RAGINI THAKUR	2002300100126	CSE
40	RAJAT RAWAT	2002300100129	CSE
41	RAVNEEK KAUR	2002300100132	CSE
42	RITIK SHUKLA	2002300100133	CSE
43	RITIKA GUGLANI	2002300100134	CSE
44	RIYA KUMARI PANDEY	2002300100135	CSE
45	SAHIL BHATIA	2002300100139	CSE
46	SAKSHI RAWAT	2002300100140	CSE
47	SANJALI KUMARI	2002300100141	CSE
48	SEEMON BHADORIA	2002300100143	CSE
49	SHIVAM UTKARSH	2002300100151	CSE
50	SHOBHIT POKHRIYAL	2002300100156	CSE
51	SHUBHAM BHUGRA	2002300100160	CSE
52	SHUBHAM GUPTA	2002300100162	CSE
53	SHUBHAM SAINI	2002300100164	CSE
54	SUMIT SINGH	2002300100168	CSE
55	SURAJ KUMAR	2002300100169	CSE
56	SURJEET KUMAR	2002300100170	CSE
57	TANISH RATHORE	2002300100173	CSE
58	TANNU TYAGI	2002300100174	CSE
59	VARUN SHARMA	2002300100187	CSE
60	VIKASH SHARMA	2002300100188	CSE
61	VISHAL SINGH	2002300100192	CSE
62	YASH GOYAL	2002300100194	CSE
63	ANAND KUMAR	2002300109004	CSE
64	MOHAMMAD TARIQUE KHAN	2002300109008	CSE
65	PRABHAT TIWARI	2002300109011	CSE
66	SHIKHA LAVANIYA	2002300109013	CSE
67	SONU KUMAR SINGH	2002300109017	CSE
68	VINEET RANJAN	2002300109019	CSE
69	BHAVYA PALWAL	2002300110009	CSIT
70	NITIN ADHIKARI	2002300110025	CSIT
71	PANKAJ	2002300110027	CSIT
72	PRERNA MALIK	2002300110029	CSIT
73	PRIYANSHU PANDEY	2002300110030	CSIT
74	RANJEET TIWARI	2002300110032	CSIT
75	ROUNAK KUMAR	2002300110035	CSIT
76	TANISH	2002300110048	CSIT
77	UTKARSH NEGI	2002300110050	CSIT
78	MEHUL KASHYAP	2002300119001	CSIT
79	HARSHIT PATHAK	2002300110014	CSIT
80	ANIL KUMAR	2002300114387	CSIT
81	VIKAS RAJPUT	2002300110051	CSIT
82	ANITA MISHRA	2002300110130	CSIT
83	NEHA AGARWAL	2002300210072	EEE
84	PRIYA AGARWAL	2002300219137	EEE
85	ANKITA VALMIKI	2002300218436	EEE
86	ANKITA SINGH	2002300219003	EEE
87	ANITA CHAUDHARY	2002300216822	EEE
88	RAHUL GUPTA	2002300217503	EEE
89	POOJA GUPTA	2002300214806	EEE
90	SHIVAM AGARWAL	2002300218897	EEE
91	ANKITA AGARWAL	2002300315258	EEE



92	ANITA AGARWAL	2002300314231	ECE
93	RAHUL RAJPUT	2002300310039	ECE
94	ANIL JADHAV	2002300318156	ECE
95	JYOTI MEENA	2002300311857	ECE
96	SHIVANI JADHAV	2002300313128	ECE
97	SWATI GUPTA	2002300318928	ECE
98	SHIVANI SHARMA	2002300310818	ECE
99	ANITA GUPTA	2002300009012	ECZ
100	JYOTI KUMARI	2002300009014	ECZ
101	KAVITA SHARMA	2002300009017	ECZ
102	JASMEEN	2002300009019	ECZ
103	RITU VERMA	2002300009020	ECZ
104	VIKAS MISHRA	2002300009031	ECZ
105	AMIT SHARMA	2002300009042	ECZ
106	RAVI CHAUDHARY	2002300009044	ECZ
107	AJAY MISHRA	2002300009048	ECZ
108	PRIYA MEENA	2002300009050	ECZ
109	SHIVANI KUMAR	2002300009052	ECZ
110	NEHA KUMARI	2002300009054	ECZ
111	KAVITA SINGH	2002300009056	ECZ
112	ANKITA KUMAR	2002300009063	ECZ
113	ANKIT KUMAR	2002300100029	IT
114	AYUSH KUMAR	2002300100047	IT
115	VISHAL CHAUHAN	2002300100191	IT
116	ANUJ SINGH	2002300130004	IT
117	DEEKSHA GUPTA	2002300130006	IT
118	KM SANJANA KUMARI	2002300130008	IT
119	MD MUSHARAF KAMAL	2002300130010	IT
120	ROSHAN KUMAR	2002300130013	IT
121	SHAILENDRA CHAURASIYA	2002300130014	IT
122	AKASH DEEP	2002300130017	IT
123	ANUSHK VIVEK	2002300400004	ME
124	VISHAL SHARMA	2002300400008	ME
125	VISHAL SINGH	2002300400009	ME
126	ANUSHEEL KAUL	2002300409001	ME
127	EKHLAKH ALI	2002300409002	ME
128	AMITESH JADHAV	2002300403444	ME
129	SHIVANSH VERMA	2002300400033	ME
130	NAMIT KUMAR	2002300408511	ME
131	ANILESH KUMAR	2002300405342	ME
132	SUMIT GUPTA	2002300408883	ME
133	VIKAS VERMA	2002300408694	ME
134	JYOTISH CHAUDHARY	2002300402513	ME
135	ROHAN MISHRA	2002300409017	ME

**Co-ordinator**  
**Dr. Aadarsh Malviya**

**Head of the Department**  
**Dr. Pawan Kumar Sharma**

*(Signature)*  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

*(Signature)*  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

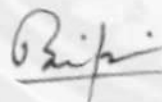
*This is to certify that*

*Mr./Ms.* ANSHIKA BISHT *of* CSE Dept. (1st Year)

*has successfully completed six days*

*Student Development Program on*

*“ HTML, JavaScript” from 24th-29th May 2021.*



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

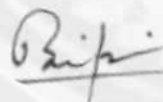
*This is to certify that*

*Mr./Ms.* GAUTAM NEGI *of* CSE Dept. (1st Year)

*has successfully completed six days*

*Student Development Program on*

*“ HTML, JavaScript” from 24th-29th May 2021.*



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*





## **Student Development Program: HTML & JavaScript**

**Target Students:** 1st Year

**Duration:** 30 Hours

**Dates:** 24th–29th May 2021

**Organized by:** APS Department

### **Course Module**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>	<b>Hours</b>
1	Introduction to HTML	HTML structure, tags, attributes, forms, tables, media	6
2	HTML Page Layout	Lists, semantic elements, hyperlinks, divs & spans, CSS integration	6
3	Introduction to JavaScript	Syntax, variables, data types, operators, control structures	6
4	DOM Manipulation	DOM tree, selecting & modifying elements, events	6
5	Interactive Web Pages	Functions, loops, user interaction, small web application	6



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## Evaluation Matrix

Component	Weightage
Quiz 1 (HTML)	20%
Quiz 2 (JavaScript Basics)	20%
Lab Assignments	30%
Final Mini Project	30%
<b>Total</b>	<b>100%</b>



# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 18th-23rd January 2021

Certification Programme on Mathematics for Engineers			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	ADITYA KUMAR	2002300100011	CSE
2	AKHIL PATWAL	2002300100017	CSE
3	ANKIT JEENA	2002300100027	CSE
4	ANKIT VERMA	2002300100031	CSE
5	ANKUR SHARMA	2002300100033	CSE
6	ANURAG GOEL	2002300100037	CSE
7	ASHWANI UPADHYAY	2002300100042	CSE
8	AYUSH	2002300100045	CSE
9	AYUSH SINGH	2002300100050	CSE
10	HIMANSHU TYAGI	2002300100074	CSE
11	JASMEET SETHI	2002300100076	CSE
12	LAVISH CHAUHAN	2002300100089	CSE
13	MAHENDER CHOUDHARY	2002300100091	CSE
14	MANAS	2002300100092	CSE
15	NEERAJ SHARMA	2002300100103	CSE
16	NIHARIKA CHAUDHARY	2002300100105	CSE
17	NITESH KUMAR SINGH	2002300100107	CSE
18	PEEHU SINGH	2002300100109	CSE
19	PRAGYA DIMRI	2002300100111	CSE
20	PRIYANSHU KUMAR	2002300100121	CSE
21	PURVA SHARMA	2002300100123	CSE
22	RAGHAV VERMA	2002300100124	CSE
23	RAGINI THAKUR	2002300100126	CSE
24	SHANTANU SHARMA	2002300100146	CSE
25	SHIVAM YADAV	2002300100153	CSE
26	SHRAVI SINGH	2002300100157	CSE
27	SHRUTI MISHRA	2002300100159	CSE
28	SHUBHAM CHAUHAN	2002300100161	CSE
29	SOMANSH BARWAL	2002300100165	CSE
30	TUSHAR POKHRIYAL	2002300100180	CSE
31	UTTAM PANDEY	2002300100181	CSE
32	ABHISHEK KUMAR	2002300109001	CSE
33	AMAN BIR	2002300109003	CSE
34	ANIL BAIDNATH PANDIT	2002300109005	CSE
35	SHIVIKA RAGHAV	2002300109014	CSE
36	CHETANYA GAUR	2002300100054	CSE
37	KUNAL DIXIT	2002300100084	CSE
38	SHIVANI UPADHYAY	2002300100154	CSE

Director

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 27, KP-III, Greater Noida-201306



39	SHIVAM BHATI	2002300100150	CSE
40	SHREYA SANYAL	2002300100158	CSE
41	AVISHI JAIN	2002300110008	CSIT
42	NITIN ADHIKARI	2002300110025	CSIT
43	NITISH KUMAR	2002300110026	CSIT
44	PANKAJ	2002300110027	CSIT
45	PRIYANSHU PANDEY	2002300110030	CSIT
46	ROHITASH KUMAR	2002300110034	CSIT
47	SAHIL CHANDRA	2002300110036	CSIT
48	SHIVAM SHARMA	2002300110038	CSIT
49	SHUBH SINGH	2002300110040	CSIT
50	SHUBHAM KUMAR	2002300110041	CSIT
51	DEEPAK SHARMA	2002300110087	CSIT
52	RAKESH MISHRA	2002300111845	CSIT
53	RAHUL CHAUDHARY	2002300118910	CSIT
54	ANUSHKA SHARMA	2002300111111	CSIT
55	SUMIT RAJPUT	2002300110814	CSIT
56	SUMIT SHARMA	2002300110114	CSIT
57	JYOTI JADHAV	2002300114924	CSIT
58	RAKESH RAJPUT	2002300113089	CSIT
59	ANKITA VALMIKI	2002300218436	EEE
60	POOJA SAGAR	2002300210326	EEE
61	PRIYA SINGH	2002300219004	EEE
62	SHEWTA SHARMA	2002300219010	EEE
63	ANITA VALMIKI	2002300219189	EEE
64	ANKITA CHAUDHARY	2002300213752	EEE
65	POOJA SINGH	2002300219009	EEE
66	POOJA VALMIKI	2002300314764	ECE
67	DIYA THAKUR	2002300315003	ECE
68	ROHIT JADHAV	2002300311623	ECE
69	RAVI AGARWAL	2002300317032	ECE
70	RAKESH VALMIKI	2002300310700	ECE
71	SWATI KUMAR	2002300316618	ECE
72	PRIYAM KUMAR	2002300310166	ECE
73	VIKAS JADHAV	2002300313878	ECE
74	SHIVANI RAJPUT	2002300316972	ECE
75	KAVITA BISHT	2002300313980	ECE
76	VIKAS KUMAR	2002300314515	ECE
77	KARTIK RAJPUT	2002300009026	ECZ
78	RAVI SINGH	2002300009028	ECZ
79	NEHA VERMA	2002300009029	ECZ
80	SWATI MEENA	2002300009032	ECZ
81	RAKESH JADHAV	2002300009033	ECZ
82	ANILESH MEENA	2002300009035	ECZ
83	ANANYA VALMIKI	2002300009036	ECZ
84	JYOTI VALMIKI	2002300009049	ECZ
85	PRIYA MEENA	2002300009050	ECZ
86	ANKITA JADHAV	2002300009051	ECZ
87	NEHA KUMARI	2002300009054	ECZ
88	ROHIT KUMAR	2002300009055	ECZ
89	KAVITA JADHAV	2002300009057	ECZ
90	NEHA SHARMA	2002300009058	ECZ
91	DEEPAK AGARWAL	2002300009061	Director ECZ
92	AMIT JADHAV	2002300009065	ECZ

93	ADITYA KUMAR	2002300100012	IT
94	ABHISHEK CHOUDHARY	2002300130002	IT
95	ANUJ SINGH	2002300130004	IT
96	KM SANJANA KUMARI	2002300130008	IT
97	MAHESH YADAV	2002300130009	IT
98	MD MUSHARAF KAMAL	2002300130010	IT
99	ROSHAN KUMAR	2002300130013	IT
100	SHASHANK	2002300130015	IT
101	AKSHAY DEEP	2002300130018	IT
102	SHAISTA CHOUDHARY	2002300130022	IT
103	SHUBHAM SRIVASTAV	2002300130023	IT
104	SUGAM PARASHAR	2002300400006	ME
105	ROHIT SAGAR	2002300405617	ME
106	RITIK GAUTAM	2002300406200	ME
107	ANEESH RAJPUT	2002300409014	ME
108	AMIT SINGH	2002300409015	ME
109	JEEVANS KUMAR	2002300404201	ME
110	AJAY KUMAR	2002300401298	ME

**Co-ordinator**  
**Ms. Bhanu Bhardwaj**

**Head of the Department**  
**Dr. Pawan Kumar Sharma**



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



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Group of Institutions  
Greater Noida

**Student Development Program**

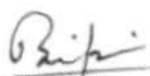
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ANKIT JEENA **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ Mathematics for Engineers”  
from 18th-23rd January 2021*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

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Group of Institutions  
Greater Noida

**Student Development Program**

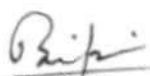
**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** MANAS **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ Mathematics for Engineers”  
from 18th-23rd January 2021*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

## **Certification Programme: Mathematics for Engineers**

**Target Students:** 1st Year

**Duration:** 30 Hours

**Dates:** 18th–23rd January 2021

**Organized by:** APS Department

### **Course Module**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>	<b>Hours</b>
1	Linear Algebra and Matrices	Vector spaces, linear dependence/independence, rank, inverse, system of equations	6
2	Differential Calculus	Limits, continuity, differentiation, maxima-minima	6
3	Integral Calculus	Definite & indefinite integrals, applications in area and volume	6
4	Differential Equations	First and second order ODEs, solutions and engineering applications	6
5	Probability and Statistics	Basic probability, mean, median, standard deviation, distributions	6



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## Evaluation Matrix

Component	Weightage
Quiz 1 (Linear Algebra + Calc)	20%
Quiz 2 (ODEs + Probability)	20%
Assignments	30%
Final Test	30%
<b>Total</b>	<b>100%</b>



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# DRONACHARYA

## Group of Institutions


B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
 Approved by: All India Council for Technical Education (AICTE), New Delhi  
 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

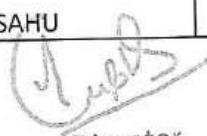
DATE: 07th-12th December 2020

### SDP on Microcontrollers, sensors, IoT applications

#### List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	ABHISHEK CHAUHAN	14157	ECE
2	ANKIT CHAUHAN	14163	ECE
3	E BALAKRISHNA	14166	ECE
4	GAURAV KUMAR	14169	ECE
5	KARAN KUSHWAHA	14172	ECE
6	MD KAIF	14173	ECE
7	PRIYANSHU PALLAV	14164	ECE
8	SACHIN CHAUDHARY	14165	ECE
9	VAISHALI MEHLAWAT	14182	ECE
10	VANSHIKA TANWAR	14184	ECE
11	YASH SHARMA	14186	ECE
12	YOGITA SHARMA	14168	ECE
13	AKSHAY SINGH	14167	ECE
14	BAL KRISHAN	14170	ECE
15	LALIT KUMAR SINGH	14175	ECE
16	PRANAV KAUSHIK	14178	ECE
17	RAHUL KUMAR DUBEY	14180	ECE
18	SAHIL SINGH	14181	ECE
19	SHIWANG BISHT	14183	ECE
20	SURAJ KUMAR SAHU	14815	ECE

  
 Co-ordinator  
 Dr. Lily Gupta

  
 Director

Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow  
 B-27, Knowledge Park – III, Greater Noida-201306

  
 Head of the Department

Dr. Sanghamitra V. Arora  
 B-27, KP-III, Greater Noida-201306



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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** BAL KRISHAN **of** ECE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on “Microcontrollers, sensors, IoT applications”  
from 07th-12th December 2020.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** PRANAV KAUSHIK **of** ECE Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “Microcontrollers, sensors, IoT applications”  
from 07th-12th December 2020.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



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Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## **Student Development Program: Microcontrollers, Sensors & IoT Applications**

**Target Students:** 2nd Year

**Duration:** 36 Hours

**Dates:** 07th–12th December 2020

**Organized by:** ECE Department

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### **Course Module**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>	<b>Hours</b>
1	Introduction to Microcontrollers	Microcontroller architecture (e.g., 8051, Arduino), memory, I/O ports	6
2	Programming Microcontrollers	Embedded C basics, programming GPIOs, timers, interrupts	6
3	Sensors and Interfacing	Types of sensors (IR, temperature, ultrasonic), interfacing techniques	6
4	Basics of IoT and Connectivity	IoT architecture, protocols (MQTT, HTTP), Wi-Fi/Bluetooth modules (e.g., ESP8266)	6
5	Data Acquisition & Processing	Sensor data collection, analog-to-digital conversion, data logging	6
6	Mini IoT Project Development	Project: Real-time IoT system (e.g., smart home/monitoring device)	6

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Director

## Evaluation Matrix

Component	Weightage
Quiz 1 (Microcontrollers)	15%
Quiz 2 (Sensors & IoT)	15%
Lab Assignments	30%
Final IoT Project	40%
<b>Total</b>	<b>100%</b>



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# **DRONACHARYA**

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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 26th-31st October  
2020

### **SDP on Mobile Systems** **List of Participants Online SDP**

<b>S.NO</b>	<b>Name of the Students</b>	<b>Roll No.</b>	<b>Dept.</b>
1	MOHD ANSAB	1723010047	CSE
2	AARUSHI RAWAT	1723010002	CSE
3	ANAND KUMAR	1723010009	CSE
4	ASHEESH KUMAR SINGH	1723010019	CSE
5	DIPANKAR BHATIA	1723010026	CSE
6	HEENA	1723010032	CSE
7	JATIN KUMAR	1723010037	CSE
8	MANISH ADHANA	1723010042	CSE
9	MUSKAN	1723010048	CSE
10	Muskan NIL Mehta	1723010049	CSE
11	PANKAJ MASIWAL	1723010054	CSE
12	PARVEEN	1723010055	CSE
13	PRAVESH KUMAR SINGH	1723010061	CSE
14	PRIYA KUMARI	1723010063	CSE
15	Priyesh Pandey	1723010065	CSE
16	RACHIT RAWAT	1723010067	CSE
17	RANJEET SINGH	1723010069	CSE
18	SATYAM KUMAR SINGH	1723010078	CSE
19	SHAHJAD ALI	1723010080	CSE
20	SHUBHAM KUMAR	1723010084	CSE
21	TARUN	1723010094	CSE

**Co-Ordinator**

**Ms. Bhanu Bhardwaj**

**Head of the Department**

**Mr. Bipin Pandey**

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

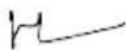
*This is to certify that*

**Mr./Ms.** PRIYA KUMARI **of** CSE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on “ Mobile Systems ”*

*from 26th-31st October 2020*



**Prof. Manu Bhardwaj**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director

**Student Development Program**

**CERTIFICATE OF COMPLETION**

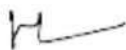
*This is to certify that*

**Mr./Ms.**           SHAHJAD ALI           **of** CSE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on “ Mobile Systems ”*

*from 26th-31st October 2020*



**Prof. Manu Bhardwaj**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



## Certificate Program on System Design Principles on Mobile Systems

4th Year CSE & Related Programs | 30 Hours | October 26-31, 2020

### Course Overview

This intensive 30-hour course explores advanced system design principles specifically for mobile platforms. Students will learn architectural patterns, performance optimization techniques, and security considerations unique to resource-constrained mobile environments. The course concludes with a team-based mobile application design project that applies learned principles to solve real-world problems.

### Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Analyze requirements and constraints specific to mobile systems
2. Design scalable and efficient mobile architectures
3. Apply appropriate design patterns for mobile application development
4. Optimize mobile applications for performance, battery life, and memory usage
5. Implement security best practices in mobile system design
6. Evaluate and select appropriate technologies for mobile system implementation
7. Work collaboratively to design and document a comprehensive mobile system

### Course Schedule (30 Hours)

#### Day 1: Monday, October 26, 2020

Time	Topic	Activities
09:00-10:30	<b>Introduction to Mobile System Design</b>   - Evolution of mobile systems   - Key challenges and constraints   - Design considerations unique to mobile	Lecture, Group discussion on mobile system constraints
10:45-12:15	<b>Mobile Architecture Patterns</b>   - MVC, MVP, MVVM for mobile   - Clean Architecture   - Layered architectural approaches	Lecture, Architecture pattern analysis exercise
13:15-14:45	<b>Requirements Engineering for Mobile</b>   - User-centric requirement gathering   - Non-functional requirements importance   - Mobile context considerations	Lecture, Case study analysis, Requirements gathering exercise
15:00-16:30	<b>Mobile UX Design Principles</b>   - Mobile interaction patterns   - Responsive and adaptive design   - Accessibility considerations	Lecture, Mobile UI critique session, Design principle application

**Day 2: Tuesday, October 27, 2020**

Time	Topic	Activities
09:00-10:30	<b>Data Management in Mobile Systems</b>   - Local storage strategies   - Synchronization patterns   - Offline-first approaches	Lecture, Case study on offline data management
10:45-12:15	<b>Network Communication Patterns</b>   - RESTful API design   - GraphQL for mobile   - Real-time communication strategies	Lecture, API design exercise
13:15-14:45	<b>Performance Optimization I</b>   - UI rendering optimization   - Memory management   - Battery consumption patterns	Lecture, Performance bottleneck identification exercise
15:00-16:30	<b>Performance Optimization II</b>   - Network optimization   - Data transfer minimization   - Image and media optimization	Lecture, Optimization technique application workshop

**Day 3: Wednesday, October 28, 2020**

Time	Topic	Activities
09:00-10:30	<b>Mobile Security Design</b>   - Threat modeling for mobile   - Authentication patterns   - Data encryption strategies	Lecture, Threat modeling exercise
10:45-12:15	<b>Privacy by Design</b>   - Privacy regulations impact   - User data handling best practices   - Permission models	Lecture, Privacy assessment exercise
13:15-14:45	<b>Testing Strategies for Mobile</b>   - Unit and integration testing   - UI automation testing   - Performance testing approaches	Lecture, Test case design workshop
15:00-16:30	<b>Deployment and Distribution</b>   - CI/CD for mobile applications   - App store optimization   - Update strategies	Lecture, Deployment pipeline design exercise

**Day 4: Thursday, October 29, 2020**

Time	Topic	Activities
09:00-10:30	<b>Cross-platform Development</b>   - Native vs hybrid vs cross-platform   - Architectural considerations   - Technology selection criteria	Lecture, Technology evaluation exercise
10:45-12:15	<b>Mobile Backend Design</b>   - Backend-as-a-Service   - Serverless architectures   - API gateway patterns	Lecture, Backend architecture design workshop
13:15-14:45	<b>IoT and Mobile Integration</b>   - Communication protocols   - Data synchronization   - Edge computing considerations	Lecture, IoT-mobile integration design challenge
15:00-16:30	<b>Emerging Trends in Mobile Systems</b>   - 5G impact on design   - AR/VR considerations   - AI/ML on mobile devices	Lecture, Future trends discussion panel

## Day 5: Friday, October 30, 2020

Time	Topic	Activities
09:00-10:30	<b>Project Introduction and Planning</b>   - Team formation   - Project requirements   - Design methodology selection	Project briefing, Team formation, Initial planning
10:45-12:15	<b>Requirement Analysis &amp; Architecture</b>   - Requirement finalization   - Architecture selection   - Component identification	Guided team work session
13:15-14:45	<b>Design Development I</b>   - Detailed design work   - Interface design   - Data model development	Guided team work session
15:00-16:30	<b>Design Development II</b>   - Security and privacy design   - Performance optimization planning   - Testing strategy	Guided team work session

## Day 6: Saturday, October 31, 2020

Time	Topic	Activities
09:00-10:30	<b>Project Finalization</b>   - Design documentation   - Final adjustments   - Preparation for presentation	Guided team work session
10:45-12:15	<b>Project Presentations I</b>	Team presentations and feedback
13:15-14:45	<b>Project Presentations II</b>	Team presentations and feedback
15:00-16:30	<b>Course Wrap-up</b>   - Design principles review   - Future learning pathways   - Course evaluation	Reflective discussion, Key takeaways, Course evaluation

## Required Materials

- Mobile device (Android or iOS) for testing design concepts
- Laptop with appropriate development environment (Android Studio / Xcode)
- Drawing/wireframing tools (e.g., Figma, Adobe XD)
- Access to cloud services for backend prototypes

## Recommended Reading

1. "Mobile Design Pattern Gallery" by Theresa Neil
2. "Designing for the Mobile Experience" by Claire Rowland
3. "Clean Architecture" by Robert C. Martin
4. "Mobile App Development with Ionic" by Chris Griffith
5. "iOS Programming: The Big Nerd Ranch Guide" by Christian Keur and Aaron Hillegass
6. "Android Programming: The Big Nerd Ranch Guide" by Bill Phillips and Chris Stewart



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## Evaluation Matrix

Assessment Component	Weight	Description	Learning Outcomes Assessed
<b>Class Participation</b>	10%	Active participation in discussions, exercises, and workshops	1, 2, 3, 4, 5, 6
<b>Daily Reflection Journal</b>	15%	Daily reflections on key concepts and their application	1, 2, 3, 4, 5, 6
<b>Design Challenge Solutions</b>	25%	Individual solutions to specific mobile design challenges presented during sessions	1, 2, 3, 4, 5, 6
<b>Final Project - Design Document</b>	25%	Team-based comprehensive design document for a mobile system addressing a specific problem	1, 2, 3, 4, 5, 6, 7
<b>Final Project - Presentation</b>	15%	Team presentation of the final design, justification of design decisions	1, 2, 3, 4, 5, 6, 7
<b>Peer Evaluation</b>	10%	Assessment of contribution to team projects and collaborative activities	7

## Grading Scale

- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: Below 60%

## Assessment Criteria for Final Project

### Design Document (25%)

Criteria	Excellent (90-100%)	Good (80-89%)	Satisfactory (70-79%)	Needs Improvement (< 70%)
<b>Problem Definition</b>	Clearly articulates the problem with comprehensive context and constraints	Well-defined problem with good context	Basic problem definition with some context	Unclear or incomplete problem definition
<b>Architecture Design</b>	Innovative, comprehensive architecture with clear justification for all components	Solid architecture with justification for key components	Basic architecture with limited justification	Incomplete or inappropriate architecture
<b>UX Design</b>	Exceptional user experience design with user flow documentation	Good user experience design with basic flows	Adequate user interface design	Poor or incomplete interface design

Criteria	Excellent (90-100%)	Good (80-89%)	Satisfactory (70-79%)	Needs Improvement (< 70%)
<b>Data Management</b>	Comprehensive data model with optimal storage and synchronization strategies	Solid data model with appropriate storage strategies	Basic data model and storage approach	Incomplete or flawed data approach
<b>Performance Considerations</b>	Detailed performance optimization strategies with metrics	Good performance considerations with some metrics	Basic performance considerations	Limited or no performance considerations
<b>Security &amp; Privacy</b>	Comprehensive security and privacy design with threat modeling	Good security considerations and basic threat model	Basic security considerations	Limited or no security considerations
<b>Implementation Planning</b>	Detailed implementation plan with technology justification	Good implementation overview with technology choices	Basic implementation approach	Vague or incomplete implementation plan

### Presentation (15%)

Criteria	Excellent (90-100%)	Good (80-89%)	Satisfactory (70-79%)	Needs Improvement (< 70%)
<b>Content</b>	Comprehensive coverage of all design aspects with clear rationale	Good coverage of main design aspects with rationale	Covers basic design elements	Incomplete coverage of design elements
<b>Visual Aids</b>	Exceptional visual representation of design concepts	Good visual representation of key concepts	Basic visual aids	Poor or limited visual aids
<b>Delivery</b>	Engaging, professional presentation with excellent time management	Clear presentation with good time management	Adequate presentation with reasonable timing	Poor delivery or significant timing issues
<b>Q&amp;A Response</b>	Insightful, thorough responses demonstrating deep understanding	Good responses showing solid understanding	Basic responses showing adequate understanding	Inadequate responses showing limited understanding



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 24th-29th  
August 2020

### SDP on Natural language processing List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	JAYANT SHIVAM	1723010039	CSE
2	RISHABH MISHRA	1723010071	CSE
3	RITIK NEGI	1723010074	CSE
4	VAISHALI BHUTANI	1723010099	CSE
5	ABHIJEET KUMAR	1723010003	CSE
6	ABHIMANYU SAHU	1723010004	CSE
7	ABHISHEK KUMAR	1723010005	CSE
8	ABHISHEK KUMAR MISHRA	1723010006	CSE
9	ANJALI RAI	1723010011	CSE
10	ANSHITA GARG	1723010013	CSE
11	Arpita Gautam	1723010016	CSE
12	Harsh Poddar	1723010031	CSE
13	Himanshu Rawat	1723010033	CSE
14	JAYANT KUMAR	1723010038	CSE
15	KUMAR ANAND	1723010041	CSE
16	MANSIJ KAUR	1723010043	CSE
17	MEENAKSHI RANA	1723010046	CSE
18	Muskan bhardwaj	1723010050	CSE
19	NAVENDU KUMAR	1723010051	CSE
20	Navodit Nain	1723010052	CSE
21	NAVONIL DAS	1723010053	CSE
22	PRADYUMAN SINGH	1723010057	CSE
23	Pranjul	1723010059	CSE
24	PRINCE JHA	1723010062	CSE
25	PRIYANKA KUMARI	1723010064	CSE
26	PUSHKAR YADAV	1723010066	CSE
27	RANJIT KUMAR YADAV	1723010070	CSE
28	Rishi Kumar	1723010073	CSE
29	RITIK VERMA	1723010075	CSE
30	RITU RAJ	1723010076	CSE
31	ROHIT KUMAR	1723010077	CSE
32	SHAMBHU KUMAR PAL	1723010082	CSE
33	shivam kumar	1723010085	CSE

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34	SHUBHAM KUMAR SHARMA	1723010086	CSE
35	SIMRAN	1723010087	CSE
36	SUDHANSHU RANJAN TIWARI	1723010090	CSE
37	SURAJ JOSHI	1723010092	CSE
38	SUVODEEP GHOSH	1723010093	CSE
39	Tarun Pratap Singh	1723010095	CSE
40	UDAYAN BOSE	1723010096	CSE
41	VIPUL	1723010103	CSE
42	VIVEK PANDEY	1723010106	CSE
43	PRAJWAL KOUL	1723010902	CSE
44	SANJEEV KUMAR	1723010903	CSE
45	SNEHA	1723010904	CSE
46	AMIT KUMAR	1723010008	CSE
47	ANSHIKA SRIVASTAVA	1723010012	CSE
48	PREETI YADAV	1723010112	CSE
49	VIDHI DURGAPAL	1723010115	CSE
50	VINI JETLEY	1723010116	CSE
51	CHESHTHA KAWATRA	1723010119	CSE
52	NIDHI SOLANKI	1723010122	CSE
53	ABHAY SHARMA	1823010901	CSE
54	BHAWNA GUPTA	1723011001	CSIT
55	ABHISHEK	1723011003	CSIT
56	Aditya Goswami	1723011005	CSIT
57	AVANTIKA RAO	1723011009	CSIT
58	BASANT CHAUDHARY	1723011012	CSIT
59	Gomsi Pathak	1723011014	CSIT
60	KARTIKAY SINGH	1723011018	CSIT
61	KRISHNA SINGH	1723011019	CSIT
62	MAYUR	1723011020	CSIT
63	Mohd Saad Umair Ansari	1723011021	CSIT
64	NIKHIL KUMAR SHARMA	1723011024	CSIT
65	PANKAJ KUMAR	1723011027	CSIT
66	PRANAV UNIYAL	1723011029	CSIT
67	prerna verma	1723011031	CSIT
68	sahil choubey	1723011033	CSIT
69	SHIKHA KUMARI	1723011034	CSIT
70	SMRITI GUPTA	1723011039	CSIT
71	SOURABH SINGH	1723011040	CSIT
72	SUBHASH	1723011041	CSIT
73	TUSHAR TAYAL	1723011044	CSIT
74	UTTAM KUMAR TIWARI	1723011045	CSIT
75	VIVEK YADAV	1723011048	CSIT




76	KRITKA CHOPRA	1723011050	CSIT
77	MANKIRAT KAUR	1723011051	CSIT
78	KRISHAN KANHIYA	1723011052	CSIT
79	NISHU KUMARI	1723011054	CSIT
80	SHIVANGI	1723011055	CSIT
81	VIDHAN	1723011056	CSIT
82	VIVEK KUMAR	1723011058	CSIT
83	ESHA	1723011061	CSIT
84	TANYA KHANNA	1723011063	CSIT
85	VIVEK CHAHAR	1723011067	CSIT
86	SHIVAM CHAUHAN	1823011910	CSIT
87	ANCHAL	1723013001	IT
88	ATUL	1723013004	IT
89	DHRUV NEHRU	1723013006	IT
90	GARIMA	1723013008	IT
91	HARSH KUMAR	1723013011	IT
92	SHIVAM KUMAR	1723013012	IT
93	VIKAS MISHRA	1723013016	IT
94	YATIN VERMA	1723013018	IT
95	ANCHAL	1723013022	IT
96	ANUJ SINGH	1723013023	IT
97	KUNIKA	1723013025	IT
98	LAKSHAY KALRA	1723013026	IT
99	MANAV JULKA	1723013027	IT
100	MOHIT CHAMOLI	1723013028	IT
101	RHEA KHANNA	1723013032	IT
102	RYTHAM MITTAL	1723013033	IT
103	SAUMYA JAIN	1723013034	IT
104	SHREYA CHATTERJI	1723013035	IT
105	SRISHTI GUPTA	1723013036	IT
106	TANISHI GOYAL	1723013037	IT
107	TEJASVIN TANWAR	1723013038	IT
108	VRINDA SINGH	1723013040	IT

**Co-Ordinator**  
**Dr. Suchita Hotwani**

**Head of the Deaprtment**  
**Mr. Bipin Pandey**

  
 Director  
 Dronacharya Group of Institutions  
 27, KP-III, Greater Noida-201306

  
 Director  
 Dronacharya Group of Institutions  
 27, KP-III, Greater Noida-201306



**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

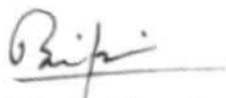
*This is to certify that*

**Mr./Ms.** ABHIMANYU SAHU **of** CSE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on*

*“ Natural language processing ” from 24th-29th August 2020*



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

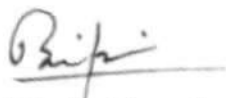
*This is to certify that*

**Mr./Ms.** Harsh Poddar **of** CSE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on*

*“ Natural language processing ” from 24th-29th August 2020*



**Dr. Bipin Pandey**  
*HoD*



**Prof. (Dr.) Arpita Gupta**  
*Director*



## Certificate Program on Natural Language Processing

**Target Students:** 4th-year CSE students

**Duration:** 36 hours

**Dates:** 24th-29th August 2020

**Department:** Computer Science Engineering (CSE)

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### Program Objectives:

- To introduce students to the field of Natural Language Processing (NLP).
- To help students understand core NLP tasks and methods.
- To provide hands-on experience in developing NLP applications using Python and libraries like NLTK, spaCy, and Hugging Face Transformers.
- To explore real-world applications of NLP such as sentiment analysis, chatbots, and language translation.

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### Program Breakdown:

#### Day 1: Introduction to NLP and Text Processing (6 hours)

- **Overview of Natural Language Processing**
  - Definition and importance of NLP in modern applications (AI, machine learning, voice assistants)
  - Evolution of NLP: From rule-based systems to deep learning models
  - Applications of NLP in industries: healthcare, finance, customer service
- **Text Preprocessing and Tokenization**
  - Text cleaning techniques (removal of stop words, punctuation, case conversion)
  - Tokenization methods (word and sentence tokenization)
  - Introduction to libraries: NLTK, spaCy
- **Hands-on Session:**
  - Implementing text cleaning and tokenization using NLTK and spaCy

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#### Day 2: Text Representation Techniques (6 hours)

- **Bag-of-Words and TF-IDF**
  - Vectorization techniques: Bag-of-Words model, Term Frequency-Inverse Document Frequency (TF-IDF)

- Application in document similarity and text classification
  - **Word Embeddings**
    - Introduction to word embeddings: Word2Vec, GloVe
    - Understanding semantic meaning in text with embeddings
  - **Hands-on Session:**
    - Building text classifiers using Bag-of-Words and TF-IDF
    - Exploring word embeddings with Gensim and visualizing word vectors
- 

### Day 3: Advanced NLP Tasks – Part 1 (6 hours)

- **Named Entity Recognition (NER)**
    - Understanding entities (names, organizations, locations) and their significance
    - Building NER systems using spaCy
  - **Part-of-Speech Tagging (POS)**
    - POS tagging and its applications in syntactic analysis
    - Using spaCy for POS tagging
  - **Hands-on Session:**
    - Implementing NER and POS tagging on sample datasets
- 

### Day 4: Advanced NLP Tasks – Part 2 (6 hours)

- **Sentiment Analysis**
    - Understanding sentiment analysis: detecting polarity in text
    - Approaches: lexicon-based, machine learning-based, and deep learning-based sentiment analysis
  - **Text Summarization**
    - Extractive vs. abstractive summarization
    - Techniques for automatic summarization of text documents
  - **Hands-on Session:**
    - Implementing sentiment analysis on movie reviews using machine learning models
    - Building a simple text summarizer using the Hugging Face Transformers library
- 

### Day 5: Chatbots and NLP Applications (6 hours)

- **Building Chatbots**
  - Types of chatbots: Rule-based vs. AI-based chatbots
  - Introduction to frameworks like Rasa and Dialogflow
- **Text Generation and Language Models**
  - Introduction to language models: n-grams, LSTM, and GPT
  - Using pre-trained models for text generation
- **Hands-on Session:**
  - Building a basic rule-based chatbot
  - Using pre-trained models (e.g., GPT-2) for text generation



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## Day 6: NLP with Deep Learning (6 hours)

- **Deep Learning in NLP**
    - Introduction to Recurrent Neural Networks (RNNs), LSTM, and GRU for NLP tasks
    - Transformers and BERT: revolutionizing NLP tasks with attention mechanisms
  - **Transfer Learning in NLP**
    - Using pre-trained language models (BERT, GPT-3) for various NLP tasks
    - Fine-tuning models for specific applications
  - **Hands-on Session:**
    - Fine-tuning a pre-trained model (BERT) on a text classification task
- 

## Learning Outcomes:

By the end of the program, students will:

- Understand the fundamental techniques and algorithms in Natural Language Processing.
- Be proficient in implementing text preprocessing, vectorization, and machine learning models for NLP tasks.
- Have practical experience in building NLP applications such as chatbots, sentiment analysis, and text summarization.
- Be familiar with state-of-the-art techniques using deep learning and pre-trained language models.



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### Assessment Plan:

Evaluation Component	Description	Weightage (%)
Daily Quizzes	Short quizzes at the end of each day to assess knowledge of key concepts.	30%
Assignments	Practical assignments to implement various NLP techniques and tasks.	30%
Final Project	A mini-project using NLP techniques to solve a real-world problem (e.g., building a sentiment analysis app or a chatbot).	40%



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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 09th-14th  
November 2020

## SDP on Networked control systems

### List of Participants Online SDP

S.NO	Name of the Students	Roll No.	Dept.
1	SHUBHAM	1723079014	ECZ
2	DEEPIKA	1723079002	ECZ
3	NUPUR PANIGRAHI	1723079008	ECZ
4	SHIVJI	1723079012	ECZ
5	DEEPANSHI	1723079015	ECZ
6	PARI	1723079017	ECZ
7	ROHAN GUPTA	1723079021	ECZ
8	KARTIK	1723079025	ECZ
9	MANISH KUMAR	1723079029	ECZ
10	GOURAV	1723079031	ECZ
11	AARTI	1723079033	ECZ
12	AKANKSHA KUMARI	1723079034	ECZ
13	ANKITA KASHYAP	1723079035	ECZ
14	DINESH LAL	1723079037	ECZ
15	DHRUV GARG	1723079038	ECZ
16	EKTA SHARMA	1723079039	ECZ
17	KALPANA VERMA	1723079042	ECZ
18	KARTIK ANGURALA	1723079043	ECZ
19	NILESHA GUPTA	1723079044	ECZ
20	NITIKA	1723079045	ECZ
21	RISHITA VERMA	1723079047	ECZ
22	SHIKHA ROHILLA	1723079050	ECZ
23	SUBHI RASTOGI	1723079052	ECZ
24	SUCHITRA NAYAK	1723079053	ECZ
25	SUSHANT	1723079054	ECZ
26	TANMAY	1723079055	ECZ
27	TANMAY	1723079056	ECZ
28	VISHAL	1723079059	ECZ
29	KUMARI ANNU KANN	1723079060	ECZ
30	MANAN SOGAN	1723079061	ECZ
31	AKANSHA	1723079062	ECZ
32	AKASH YADAV	1723079063	ECZ

Co-Ordinator

Ms. Manisha Bisht

Head of the Department

Dr. Sanghamitra V. Arora

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. AARTI of ECZ Dept. (4th Year) has successfully  
completed six days Student Development  
Program on “ Networked control systems ”  
from 09th-14th November 2020*



**Prof. Sanghamitra V Arora**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director  
Dronacharya Group of Institutions  
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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** SHIVJI **of** ECZ Dept. (4th Year) **has successfully**  
**completed six days Student Development**  
**Program on “ Networked control systems ”**  
**from 09th-14th November 2020**



**Prof. Sanghamitra V Arora**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director  
Dronacharya Group of Institutions  
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# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Networked Control Systems**

**Target Students:** 4th-year ECZ students

**Duration:** 30 hours

**Dates:** 09th-14th November 2020

**Department:** Electronics and Communication Engineering (ECZ)

### **Program Objectives:**

- To introduce students to the concepts and applications of networked control systems (NCS).
- To provide an understanding of communication constraints, delays, and noise in control systems.
- To offer hands-on experience in simulating and analyzing networked control systems using MATLAB/Simulink.
- To understand how to design robust control systems in the presence of network-induced issues.

### **Program Breakdown:**

#### **Day 1: Introduction to Networked Control Systems (6 hours)**

- **Overview of Control Systems**
  - Traditional control systems: Open-loop vs closed-loop systems
  - Introduction to networked control systems (NCS): Definition and significance
  - Application of NCS in industrial automation, robotics, automotive systems, etc.
- **Fundamentals of Communication in Control Systems**
  - Communication protocols (TCP/IP, CAN, Ethernet)
  - Network-induced issues: delays, packet loss, jitter, and bandwidth limitations
- **Hands-on Session:**
  - Introduction to MATLAB/Simulink for NCS simulation



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#### **Day 2: Delays and Discretization in NCS (6 hours)**

- **Impact of Communication Delays**
  - Modeling delays in NCS: time delays and their effect on control stability
  - Time delay compensation techniques in control systems



- **Discrete-Time Modeling and Control**
  - Discretization of continuous-time systems for digital implementation
  - Z-transforms, sampling theorem, and aliasing effects
- **Hands-on Session:**
  - Simulating control systems with delays in MATLAB/Simulink
  - Discretization of continuous-time systems and analysis

### **Day 3: Stability and Performance in Networked Control Systems (6 hours)**

- **Stability Analysis of NCS**
  - Stability in the presence of network-induced delays and packet drops
  - Nyquist and Bode analysis in discrete-time systems
- **Performance Metrics**
  - Performance degradation due to communication delays and packet loss
  - Quantifying system performance using transfer functions and state-space models
- **Hands-on Session:**
  - Stability analysis of NCS using MATLAB/Simulink tools

### **Day 4: Robust Control Design for NCS (6 hours)**

- **Robust Control in Networked Systems**
  - Introduction to robust control theory
  - Design techniques for maintaining stability in the presence of uncertainties
- **Model Predictive Control (MPC) for NCS**
  - MPC basics and its application to NCS
  - Designing MPC controllers for systems with network-induced issues
- **Hands-on Session:**
  - Designing a robust control system using MPC in MATLAB/Simulink

### **Day 5: Advanced Topics in NCS: Wireless Communication and Fault Tolerance (6 hours)**

- **Wireless Networked Control Systems (WNCS)**
  - Wireless communication challenges in NCS
  - Integration of wireless technologies like Wi-Fi, Zigbee, and Bluetooth in NCS
- **Fault Detection and Fault-Tolerant Control in NCS**
  - Methods for detecting faults in networked systems
  - Fault-tolerant control strategies for maintaining system performance in the presence of failures
- **Hands-on Session:**
  - Simulating wireless NCS and fault detection algorithms in MATLAB

## **Day 6: Applications and Future Trends in NCS (6 hours)**

- **Applications of NCS**
  - NCS in modern robotics, autonomous vehicles, smart grids, and industrial IoT
  - Examples of real-time applications and case studies
- **Future Trends and Research Directions**
  - Future challenges in NCS: 5G networks, cyber-physical systems, and IoT integration
  - Research trends in robust, distributed, and adaptive control for NCS
- **Hands-on Session:**
  - Final simulation project: Design and simulate a networked control system application

## **Learning Outcomes:**

By the end of the program, students will:

- Understand the fundamental concepts of networked control systems.
- Be able to model and simulate network-induced issues such as delays, packet loss, and jitter.
- Gain practical experience in designing and analyzing control systems under communication constraints.
- Be equipped with skills to design robust and fault-tolerant control systems for modern applications.



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### **Assessment Plan:**

<b>Evaluation Component</b>	<b>Description</b>	<b>Weightage (%)</b>
<b>Daily Quizzes</b>	Short quizzes at the end of each day to assess knowledge of key concepts.	30%
<b>Assignments</b>	Practical assignments to design, simulate, and analyze networked control systems.	30%
<b>Final Project</b>	A mini-project involving the design and simulation of an NCS application.	40%



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 14th-19th  
September 2020

### **SDP on PLC & SCADA in Industrial Automation**

#### **List of Participants Online SDP**

<b>S.NO</b>	<b>Name of the Students</b>	<b>Roll No.</b>	<b>Dept.</b>
1	RAJAT SHARMA	1723021004	EEE
2	RISHABH VERMA	1723021010	EEE
3	ABHISHEK KUMAR	1723021002	EEE
4	BHEEM KANT KAUSHAL	1723021005	EEE
5	OM PRAKASH POKHREL	1723021008	EEE
6	SHUBHAM SHARMA	1723021012	EEE
7	PRANJAL MEENA	1723021018	EEE
8	SAKSHAM	1723021019	EEE
9	SHAILESH	1723021021	EEE
10	UDAY PATHANIA	1723021022	EEE
11	URVASHI	1723021024	EEE
12	HARSHNA	1723021034	EEE

**Co-Ordinator**

**Dr. Hari Mohan Rai**

**Head of the Department**

**Dr. Sanghamitra V. Arora**



Director

Dronacharya Group of Institutions  
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Director

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**Student Development Program**

**CERTIFICATE OF COMPLETION**

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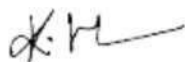
**Mr./Ms.** PRANJAL MEENA **of** EEE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on*

*“ PLC & SCADA in Industrial Automation ”*

*from 14th-19th September 2020.*



**Prof. Kaustubh Kr. Shukla**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



*Director*



**Student Development Program**

**CERTIFICATE OF COMPLETION**

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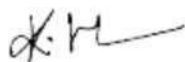
**Mr./Ms.** SAKSHAM **of** EEE Dept. (Final Year)

*has successfully completed six days*

*Student Development Program on*

*“ PLC & SCADA in Industrial Automation ”*

*from 14th-19th September 2020.*



**Prof. Kaustubh Kr. Shukla**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



*Director*

### **Certificate Program on PLC & SCADA in Industrial Automation**

**EEE Department | 4th Year | 30 Hours | September 14-19, 2020**

#### **Course Overview**

This 30-hour program provides comprehensive training on Programmable Logic Controllers (PLCs) and Supervisory Control and Data Acquisition (SCADA) systems for industrial automation applications. Students will gain theoretical knowledge and practical skills through hands-on sessions with industry-standard equipment and software.

#### **Learning Outcomes**

1. Understand PLC architecture, components, and programming principles
2. Develop PLC programs using ladder logic and functional block diagrams
3. Configure and implement SCADA systems for industrial processes
4. Design HMI interfaces for process monitoring and control
5. Integrate PLC and SCADA systems for comprehensive automation solutions
6. Troubleshoot common issues in industrial automation systems

#### **Course Schedule**

##### **Day 1: Monday, September 14, 2020**

- **Morning:** Introduction to Industrial Automation, PLC Fundamentals
- **Afternoon:** PLC Architecture and Hardware Components

##### **Day 2: Tuesday, September 15, 2020**

- **Morning:** PLC Programming Concepts and Ladder Logic
- **Afternoon:** Programming Exercises with Industry PLC Systems

##### **Day 3: Wednesday, September 16, 2020**

- **Morning:** Advanced PLC Programming Techniques
- **Afternoon:** Industrial Communication Protocols

##### **Day 4: Thursday, September 17, 2020**

- **Morning:** SCADA System Architecture and Components
- **Afternoon:** HMI Design and Development



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**Day 5: Friday, September 18, 2020**

- **Morning:** PLC-SCADA Integration Techniques
- **Afternoon:** Industry Applications and Case Studies

**Day 6: Saturday, September 19, 2020**

- **Morning:** Industrial Automation Project Development
- **Afternoon:** Project Presentations and Evaluation

**Required Materials**

- PLC Training Kits (Siemens/Allen Bradley)
- SCADA Software Licenses (WinCC/Wonderware)
- Laptop with required software pre-installed
- Safety equipment for lab sessions



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## Evaluation Matrix

Assessment Component	Weight	Description
Daily Lab Exercises	25%	Practical programming and configuration tasks
Technical Quiz	15%	Assessment of theoretical concepts
Simulation Assignments	20%	Virtual implementation of automation scenarios
Final Project	35%	PLC-SCADA integrated automation solution
Participation	5%	Engagement in discussions and activities

## Grading Scale

- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: Below 60%

## Course Policies

- **Attendance:** Minimum 90% attendance required for certification
- **Safety:** Strict adherence to lab safety protocols
- **Equipment Usage:** Proper handling of training equipment
- **Submissions:** All assignments due as per schedule



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

**DATE: 09th-14th November 2020**

Certificate program on RUBY for web application development			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	ABHISHEK MISHRA	1823010003	CSE
2	ADITYA KUMAR	1823010008	CSE
3	AKASH CHAUHAN	1823010011	CSE
4	AKASH TOMAR	1823010012	CSE
5	AKSHAY UNNIKRISHNAN	1823010013	CSE
6	AMAN CHAWLA	1823010014	CSE
7	AMAN KUMAR	1823010016	CSE
8	ANMOL CHAUHAN	1823010019	CSE
9	ANURAG	1823010020	CSE
10	ARJUN V P	1823010021	CSE
11	ARUN BHATTI	1823010022	CSE
12	ARVIND KUMAR SHARMA	1823010023	CSE
13	AYUSH SHARMA	1823010025	CSE
14	DEEPAK KUMAR	1823010027	CSE
15	DEEPANSHU TOMAR	1823010029	CSE
16	DIVYA GUPTA	1823010030	CSE
17	GAURAW KUMAR	1823010031	CSE
18	HIMANSHU KARKI	1823010033	CSE
19	HRITHIK PARASHAR	1823010035	CSE
20	JASPAL	1823010036	CSE
21	K SHIVAM	1823010038	CSE
22	KRITI SHARMA	1823010040	CSE
23	KUMAR TARUN	1823010041	CSE
24	MANJEET KUMAR	1823010046	CSE
25	MD SABAB ALAM	1823010049	CSE
26	MEHARBAN AHMAD	1823010051	CSE
27	MOHMMAD JUNAID MALIK	1823010054	CSE
28	PRAKHAR KABRA	1823010059	CSE
29	PRIYANKA	1823010062	CSE
30	PRIYANSH KAMAL	1823010063	CSE
31	RAVINDRA PAL	1823010065	CSE
32	RISHAV KUMAR	1823010067	CSE
33	SANA BISHT	1823010073	CSE
34	SHIVAM NEGI	1823010077	CSE
35	SHWETA DISHWAR	1823010080	CSE
36	VAINISHA JAIN	1823010089	CSE
37	VISHAL KUMAR	1823010092	CSE
38	VISHAL YADAV	1823010094	CSE
39	AMIT SINGH	1823010017	CSE
40	TUSHAR JAISWAL	1823010087	CSE
41	ANIRUDDH	1823010106	CSE
42	ABHAY KUMAR	1823011002	CSIT
43	ADITYA KUMAR	1823011003	CSIT
44	AKASH KAUSHIK	1823011004	CSIT



45	AKSHAY KUMAR	1823011006	CSIT
46	AMAN AGGARWAL	1823011007	CSIT
47	AMAN KUMAR	1823011008	CSIT
48	ABHISHEK SHAH	1823011012	CSIT
49	KARAN	1823011021	CSIT
50	MANAV ANAND	1823011023	CSIT
51	MAYUR	1823011024	CSIT
52	MEHUL GARG	1823011026	CSIT
53	MOHIT	1823011027	CSIT
54	PARAMJEET	1823011030	CSIT
55	PRITESH RANJAN	1823011032	CSIT
56	PULKIT MITTAL	1823011033	CSIT
57	RASHI SAINI	1823011036	CSIT
58	RUHI PETER	1823011037	CSIT
59	SHUBHAM MADDHESHIYA	1823011042	CSIT
60	VASU CHAURASIYA	1823011043	CSIT
61	VIJAY NEGI	1823011044	CSIT
62	SHIVANSHU SINGH	1823011041	CSIT
63	RAKRSH KUMAR YADAV	1823011049	CSIT
64	MD MAZID KHAN	1823011053	CSIT
65	MANEESH KUMAR MAURYA	1823011055	CSIT
66	FARAJ	1823011056	CSIT
67	KARTIK CHAUHAN	1823011057	CSIT
68	ABHISHEK SINGH	1823013001	IT
69	FARAJ KHAN	1823013003	IT
70	ISHAN MALHOTRA	1823013004	IT
71	JIVANSH BHATIA	1823013005	IT
72	KARMVEER CHAUHAN	1823013006	IT
73	MANISH MAURYA	1823013007	IT
74	MD MAJID KHAN	1823013008	IT
75	MOHD AAQIB	1823013009	IT
76	NEERAJ PUROHIT	1823013010	IT
77	SIYA	1823013011	IT
78	JIIYA	1823013012	IT
79	ANYA	1823013013	IT
80	AARUSH	1823013014	IT
81	DIYA	1823013015	IT
82	RITVIK	1823013016	IT
83	IVAN	1823013018	IT
84	TIYA KHALSA	1823013020	IT
85	PANKAJ SHUKLA	1823013022	IT
86	JAI KUMAR SHARMA	1823013023	IT
87	SAJEEV VIJAYAN	1823013024	IT
88	ANIRUDDHA SAHA	1823013025	IT
89	RAJIV PURI	1823013026	IT
90	KARMVIR SINGH	1823013027	IT
91	SHIV PRASAD MAURYA	1823013028	IT
92	SANDEEP MALIK	1823013030	IT
93	LALIT KUMAR SINGH	1823013031	IT
94	SUJIT KUMAR SINGH	1823013032	IT
95	SUSHEELA	1823013033	IT
96	MUKESH KAPUR	1823013034	IT
97	RAJIV GUPTA	1823013035	IT

**Co-ordinator**  
**Dr. Aadarsh Malviya**

**Head of the Department**  
**Mr. Bipin Pandey**

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ABHISHEK MISHRA **of** CSE Dept. (3rd Year)  
*has successfully completed six days Student Development  
Program on “ RUBY for web application development”  
from 09th-14th November 2020.*

  
**Dr. Bipin Pandey**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ARJUN V P **of** CSE Dept. (3rd Year)

*has successfully completed six days Student Development  
Program on “ RUBY for web application development ”  
from 09th-14th November 2020.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director

  
Director

## **Certificate Program on RUBY for Web Application Development**

- **Organized by:** Department of CSE & Related Branches
- **Target Students:** 3rd Year
- **Duration:** 36 Hours
- **Dates:** 09th – 14th November 2020

### **Program Objective**

The program aims to introduce students to the Ruby programming language and its application in building dynamic, database-driven web applications using Ruby on Rails. It focuses on full-stack development principles, agile practices, and deployment basics.

### **Course Modules**

<b>Module</b>	<b>Topic</b>	<b>Highlights</b>
Module 1	Introduction to Ruby	Syntax, variables, data types, control structures, OOP in Ruby
Module 2	Web Development Basics	HTTP, HTML/CSS recap, MVC architecture
Module 3	Ruby on Rails Framework	Setting up Rails, project structure, routing, controllers
Module 4	Database Integration	ActiveRecord, CRUD operations, database migrations
Module 5	User Interfaces & APIs	Forms, views, layout design, integrating external APIs
Module 6	Final Project and Deployment	Web app development (individual/group), version control (Git), deployment on Heroku

### **Learning Outcomes**

- Gain proficiency in Ruby and understand its object-oriented nature
- Build and deploy full-stack web applications using Ruby on Rails
- Understand MVC architecture and ActiveRecord ORM
- Collaborate using version control and practice deployment



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## Evaluation Matrix

Component	Details	Weightage
Quiz on Ruby & Web Basics	Syntax, logic, MVC pattern	20%
Hands-On Assignments	CRUD, routes, database design	25%
Final Project	Complete functional web app	35%
Code Review & Viva	Project explanation, coding standards	20%
<b>Total</b>		<b>100%</b>



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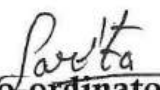


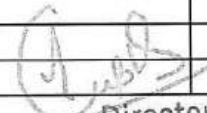
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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 14th-19th September 2020

Certification Program on Transparency and Accountability in Corporate Reporting			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	AMIT KUMAR	14520	MBA
2	ANKIT KUMAR	14523	MBA
3	AWINISH KUMAR	14525	MBA
4	KARTIKEY YADAV	14529	MBA
5	MANOJ KUMAR	14532	MBA
6	SHALINI KUMARI	14538	MBA
7	SHASHI RANJAN KUMAR	14540	MBA
8	SHUBHAM KUMAR	14539	MBA
9	ABHINAV MISHRA	14542	MBA
10	ADITYA RAJPUT	14543	MBA
11	AKHILESH YADAV	14544	MBA
12	ANIRUDH SHARMA	14545	MBA
13	ARJUN KAPOOR	14547	MBA
14	ASHUTOSH SINGH	14548	MBA
15	BHAVESH MEHTA	14549	MBA
16	CHANDAN PANDEY	14550	MBA
17	DHEERAJ CHAUHAN	14551	MBA
18	ESHAN MALHOTRA	14552	MBA
19	FAISAL KHAN	14553	MBA
20	GAURAV CHOUDHARY	14554	MBA
21	HARSH VARDHAN	14555	MBA
22	ISHAN ARORA	14556	MBA
23	JAYANT BANSAL	14557	MBA
24	KESHAV THAKUR	14558	MBA
25	LAKSHAY CHOUDHARY	14559	MBA
26	MANISH RAWAT	14560	MBA
27	NAVEEN JOSHI	14561	MBA
28	OMKAR VERMA	14562	MBA
29	PRANAY SINHA	14563	MBA
30	QASIM ANSARI	14564	MBA
31	RAGHAV TANDON	14565	MBA
32	SAHIL KAPOOR	14566	MBA
33	TANISHQ BATRA	14567	MBA
34	UTKARSH RAJAN	14568	MBA
35	VAIBHAV TRIVEDI	14569	MBA

  
Co-ordinator  
Ms. Sarita Tiwari

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Head of the Department  
Dr. Vandana Pareek  
27, KP-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.** ARJUN KAPOOR **of** MBA Dept. (2nd Year)

***has successfully completed six days Student Development***

***Program on “ Transparency and Accountability***

***in Corporate Reporting”***

***from 14th-19th September 2020.***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

**Student Development Program**

**CERTIFICATE OF COMPLETION**

***This is to certify that***

**Mr./Ms.**                     AWINISH KUMAR                     **of**           MBA Dept. (2nd Year)          

***has successfully completed six days Student Development***

***Program on “ Transparency and Accountability***

***in Corporate Reporting”***

***from 14th-19th September 2020.***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

## Certification Program on Transparency and Accountability in Corporate Reporting

- **Organized by:** Department of MBA
- **Target Students:** 2nd Year
- **Duration:** 30 Hours
- **Dates:** 14th – 19th September 2020

### □ Program Objective

This certification program aims to develop a clear understanding of the principles and practices that promote transparency and accountability in corporate reporting. It emphasizes the role of ethical disclosures, financial integrity, and corporate governance in building investor trust and long-term sustainability.

### □ Course Modules

Module	Topic	Key Highlights
Module 1	Fundamentals of Corporate Reporting	Objectives, types of corporate reports, stakeholders' expectations
Module 2	Financial Disclosure & Ethics	IFRS, GAAP, ethical reporting, fraud prevention
Module 3	Non-Financial Reporting	ESG reporting, sustainability disclosures, integrated reporting framework
Module 4	Corporate Governance & Accountability	Board responsibilities, audit committees, whistleblower mechanisms
Module 5	Regulatory Compliance	SEBI, Companies Act, global regulations
Module 6	Case Studies & Group Presentations	Study of corporate scandals, role-play simulations, best practices

### Learning Outcomes

- Understand the critical elements of transparent and ethical corporate reporting
- Identify and apply legal and regulatory frameworks in financial disclosure
- Analyze the importance of ESG and integrated reporting in modern businesses
- Apply governance concepts in real-life business reporting scenarios



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□ **Evaluation Scheme**

<b>Component</b>	<b>Description</b>	<b>Weightage</b>
MCQ Quiz on Concepts	Fundamentals of reporting & governance	20%
Assignment/Case Report	Company case analysis (e.g., Enron, Satyam)	25%
Group Presentation	ESG or integrated reporting proposal	30%
Viva & Participation	Class discussion, engagement, Q&A	25%
<b>Total</b>		<b>100%</b>

---



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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 14th-19th September 2020

### **Certification Programme on Web Development Bootcamps**

#### **List of Participants Online SDP**

<b>S.NO</b>	<b>Name of the Students</b>	<b>Roll No.</b>	<b>Dept.</b>
1	ANANYA SHARMA	2002300700001	MBA
2	DHRUV SARASWAT	2002300700003	MBA
3	NEERAJ KUMAR	2002300700005	MBA
4	NITIN UPADHYAY	2002300700009	MBA
5	SAKSHI SHUKLA	2002300700012	MBA
6	SUSHMITA HALDAR	2002300700015	MBA
7	JYOTI YADAV	2002300700018	MBA
8	SHWETA MEENA	2002300700022	MBA
9	KAVITA MISHRA	2002300700024	MBA
10	REET AGARWAL	2002300700027	MBA
11	POOJA MEENA	2002300700028	MBA
12	RAVI YADAV	2002300700032	MBA



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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** DHRUV SARASWAT **of** MBA Dept. (1stYear)

*has successfully completed Six days SDP on*

*“Web Development Bootcamps”*

*from 14th-19th September 2020.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** RAVI YADAV **of** MBA Dept. (1stYear)

*has successfully completed Six days SDP on*

*“Web Development Bootcamps”*

*from 14th-19th September 2020.*

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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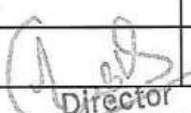
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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 24th-29th May 2021

Certificate Program on Multi-Functional Vehicle Systems			
List of Participants Online SDP			
S.NO	Name of the Students	Roll No.	Dept.
1	HARSHIT MAHESHWARI	14382	EEE
2	MD SAQLAIN IDRIS	14385	EEE
3	ANKITA AGARWAL	14383	EEE
4	AMIT AGARWAL	14384	EEE
5	RAJESH GUPTA	14386	EEE
6	RITU PANDEY	14387	EEE
7	JYOTI THAKUR	14400	EEE
8	ANKITA AGARWAL	14389	EEE
9	SWATI SINGH	14390	EEE
10	RITU VERMA	14391	EEE
11	Simran Kaur	14384	EEE
12	APOORVA KUMAR	14761	EEE
13	ROHIT PANDEY	14392	EEE
14	RITU MISHRA	14393	EEE
15	SWATI MISHRA	14394	EEE
16	ANKITA AGARWAL	14395	EEE
17	ANITA AGARWAL	14396	EEE
18	RAVI MISHRA	14397	EEE
19	SHIVANI MISHRA	14398	EEE
20	POOJA SINGH	14399	EEE

  
**Co-ordinator**  
**Ms. Sarita Tiwari**

  
**Director**  
**Dronacharya Group of Institutions**  
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**Head of the Department**  
**Dr. Sanghamitra V. Arora**

**Director**  
**Dronacharya Group of Institutions**  
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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** POOJA SINGH **of** EEE Dept. (2ndYear)

*has successfully completed Six days SDP on*

*“Multi-Functional Vehicle Systems”*

*on 24th-29th May 2021.*



**Prof. Sanghamitra V Arora**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*





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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** SWATI SINGH **of** EEE Dept. (2ndYear)

*has successfully completed Six days SDP on*

*“Multi-Functional Vehicle Systems”*

*on 24th-29th May 2021.*



**Prof. Sanghamitra V Arora**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



## **Certificate Program on Multi-Functional Vehicle Systems**

- **Organized by:** Department of EEE
- **Target Students:** 2nd Year
- **Duration:** 30 Hours
- **Dates:** 24th – 29th May 2021

### **Program Objective**

The program is designed to introduce students to the interdisciplinary systems involved in modern multi-functional vehicles. It covers key electrical and electronic subsystems, integration with mechanical systems, and advancements in intelligent vehicle technology.

### **Course Modules**

<b>Module</b>	<b>Topic</b>	<b>Highlights</b>
Module 1	Overview of Modern Vehicle Systems	Architecture of vehicles, electrical/electronic integration, control systems
Module 2	Powertrain and Energy Systems	Hybrid and electric drives, battery management, regenerative braking
Module 3	Sensors and Actuators in Vehicles	Engine sensors, proximity detectors, braking actuators, safety systems
Module 4	Vehicle Communication Networks	CAN bus, LIN, FlexRay basics, diagnostics
Module 5	Smart Features and ADAS	Parking assist, cruise control, lane detection, infotainment systems
Module 6	Hands-On and Case-Based Applications	Simulations using MATLAB/Simulink or Proteus, real-time system modeling

### **Learning Outcomes**

- Understand the interdisciplinary nature of modern vehicle systems
- Identify and analyze core vehicle electrical subsystems
- Learn basics of vehicle networking protocols
- Engage in practical modeling of smart vehicle functionalities



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## Evaluation Matrix

Component	Details	Weightage
Technical Quiz	Fundamentals of vehicle systems	20%
Practical Assignments	Circuit/sensor simulation or subsystem design	25%
Group Presentation	Emerging tech in smart vehicles	30%
Participation & Engagement	Interaction, queries, teamwork	25%
<b>Total</b>		<b>100%</b>



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## Congratulations!

For successfully completing the course

**Developing Soft Skills & Personality**



**NAVDEEP SINGH**  
Roll No : 14064



**AJAY RAI**  
Roll No : 14003



**DIVYA GUPTA**  
Roll No : 13047



**BHAVESH JHA**  
Roll No : 14027

**CERTIFICATE TYPE: ELITE**

**Session : (Jul-Dec 2020)**

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IIT MADRAS



IIT KANPUR



IIT ROORKEE



IIT KHARAGPUR



IIT BANGALORE



**DRONACHARYA**  
Group of Institutions

## Congratulations!

For successfully completing the course

**Enhancing Soft Skills & Personality**



**NAVDEEP SINGH**

Roll No : 14064



**BHAVESH JHA**

Roll No : 14027



**AJAY RAI**

Roll No : 14003

**CERTIFICATE TYPE: ELITE + SILVER**

**Session : (Jul-Dec 2020)**

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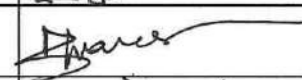

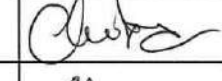

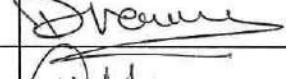
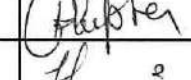
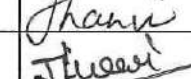
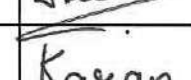
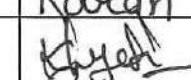
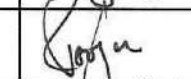
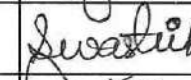

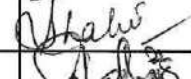
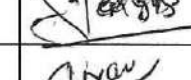


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Date: 16th to 21st December, 2019

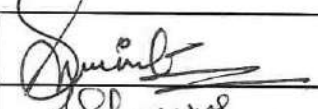
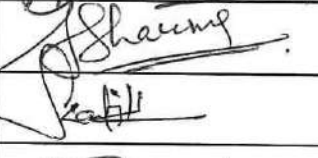
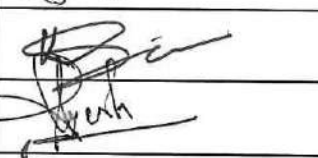
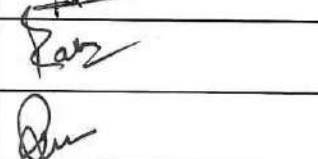
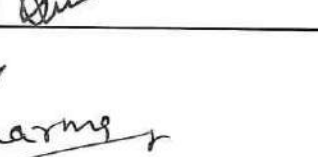
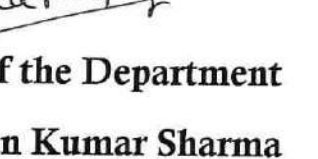
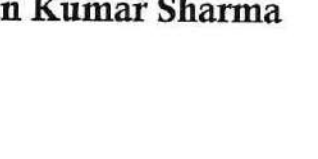
### SDP on AI Fundamentals and Advanced Applications for Engineers

#### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AYUSHYA VERMA	14023	CSE	
2	BHAVESH JHA	14024	CSE	
3	BIPIN KUMAR	14025	CSE	
4	CHIRAG	14026	CSE	
5	CHIRAG GUPTA	14027	CSE	
6	DAKSHITA VERMA	14028	CSE	
7	HRITIK GUPTA	14042	CSE	
8	JANHVI SHUKLA	14043	CSE	
9	JAY BARDHAN TIWARI	14044	CSE	
10	KARAN RAJPUT	14045	CSE	
11	KHYATI SHARMA	14046	CSE	
12	PUJA VERMA	14123	CSE	
13	SWASTIK SINGH	14124	CSE	
14	NEETU RASTOGI	14125	CSE	
15	HARSHIT MAHESHWARI	14382	EEE	
16	SHAHID EQBAL	14388	EEE	
17	MD SAQLAIN IDRIS	14385	EEE	
18	SHIVANI VERMA	14140	IT	
19	NISHA AGARWAL	14141	IT	

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20	SUMIT SHARMA	14144	IT	
21	JATIN SHARMA	14276	ME	
22	KARTIK KHARBANDA	14278	ME	
23	KAUSHAL JHA	14281	ME	
24	AYUSH KAUSHAL	14415	CSIT	
25	BHANUSHREE	14417	CSIT	
26	RAVI PANDEY	14683	ECZ	

  
Co-ordinator

**Dr. Aadarsh Malviya**



**Head of the Department**

**Dr. Pawan Kumar Sharma**

  
Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Director

Dronacharya Group of Institutions  
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

This is to certify that

Mr./Ms. AYUSH KAUSHAL of CSIT Dept. (1st Year)

has successfully completed six days

Student Development Program on “AI Fundamentals and Advanced  
Applications for Engineers” from 16<sup>th</sup> to 21<sup>st</sup> December, 2019.



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Mr. Himanshu Chaudhary**  
Co-ordinator



**Prof. Pawan Kumar Sharma**  
H.O.D



**Prof. (Dr.) Arpita Gupta**  
Director



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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

This is to certify that

Mr./Ms. BIPIN KUMAR of CSE Dept. (1st Year)

has successfully completed six days

Student Development Program on “AI Fundamentals and Advanced  
Applications for Engineers” from 16<sup>th</sup> to 21<sup>st</sup> December, 2019.



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Mr. Himanshu Chaudhary**  
Co-ordinator



**Prof. Pawan Kumar Sharma**  
H.O.D

**Prof. (Dr.) Arpita Gupta**  
Director

## **Skill Development Program on AI Fundamentals and Advanced Applications for Engineers**

**Academic Year:** 2019–20

**Duration:** 16th to 21st December, 2019

**Total Hours:** 30 Hours

**Target Students:** 1st Year B.Tech students

**Department:** Applied Sciences (APS)

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### **Program Objective**

The program was designed to introduce first-year engineering students to the **core concepts of Artificial Intelligence (AI)** and explore its **real-world engineering applications**. It aimed to provide a solid base for understanding AI-driven technologies shaping future innovations.

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### **Key Learning Outcomes**

Participants were able to:

- Understand the fundamentals of AI, machine learning, and neural networks.
  - Explore real-life applications of AI in engineering and industry.
  - Gain hands-on exposure to basic AI tools and platforms (e.g., Google Colab, Python libraries).
  - Develop small AI-based prototypes or solutions using basic datasets.
- 



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## Course Content Overview

Day	Topics Covered
Day 1	Introduction to Artificial Intelligence and its Evolution
Day 2	Basics of Python Programming for AI
Day 3	Introduction to Machine Learning and its Algorithms
Day 4	Neural Networks and Deep Learning (Overview)
Day 5	AI in Engineering Fields: Case Studies and Applications
Day 6	Practical Session: Mini Projects and Presentation

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## Tools and Technologies Used

- **Languages/Tools:** Python, NumPy, Pandas, Scikit-learn, Google Colab
  - **Domains Touched:** Image Recognition, Predictive Analysis, Smart Systems
- 



Director

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

## Assessment & Evaluation Matrix

Component	Weightage
Daily Hands-on Activities	30%
Conceptual Quizzes & Discussions	20%
Final Project / Prototype Design	50%
Total	100%



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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** AMAN VERMA **of** CSE Dept. (1st Year) **has successfully**  
**completed six days Student Development Program on**  
**“Mathematical Modeling” from 18th-23rd May 2020**

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
Dronacharya Group of Institutions  
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## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. MOKSH PASRICHA of CSE Dept. (1st Year) has successfully  
completed six days Student Development Program on  
“Mathematical Modeling” from 18th-23rd May 2020**

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## **Certification Programme on Mathematical Modeling**

**Academic Year:** 2019–20

**Duration:** 18th to 23rd May, 2020

**Total Hours:** 30 Hours

**Target Students:** 1st Year B.Tech students

**Department:** Applied Sciences (APS)

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### **Program Objective**

The aim of this certification programme was to equip students with the knowledge and skills required to **formulate, analyze, and solve real-world problems** using mathematical models. The course emphasized an interdisciplinary approach combining **mathematics, logic, and practical engineering applications**.

---

### **Key Learning Outcomes**

By the end of the program, students were able to:

- Understand the concept and purpose of mathematical modeling.
  - Apply mathematical tools (like differential equations, probability, and linear algebra) to represent physical and engineering systems.
  - Analyze models for prediction, optimization, and simulation.
  - Use computational tools to solve and visualize mathematical models.
- 



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## Course Content Overview

Day	Topics Covered
Day 1	Introduction to Mathematical Modeling and Real-Life Applications
Day 2	Differential Equations and Dynamic Models
Day 3	Linear Programming and Optimization Techniques
Day 4	Probability Models and Statistical Applications
Day 5	Computational Tools for Modeling (Excel, Python, MATLAB)
Day 6	Case Studies & Mini Project Presentations

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## Tools & Techniques Used

- **Mathematical Tools:** Differential Equations, Matrices, Probability
  - **Software Tools:** MATLAB, Excel Solver, Python (SymPy, NumPy)
- 



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## Assessment & Evaluation Matrix

Component	Weightage
Daily Problem Solving Assignments	30%
Conceptual Understanding Quizzes	20%
Final Model/Case Study Presentation	50%
Total	100%



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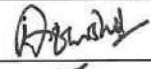
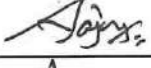
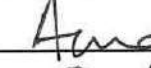
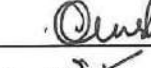
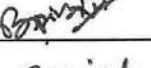
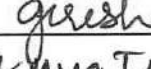
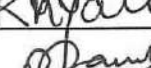
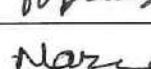
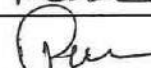
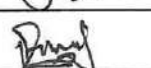
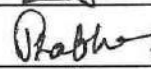
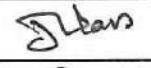

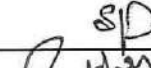
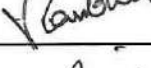
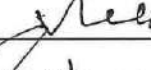
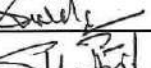

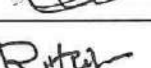
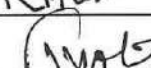
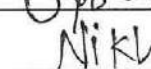
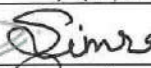



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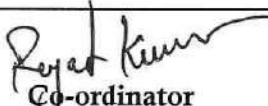
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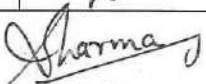
Date: 7th-12th October 2019


### SDP on HTML, CSS Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	ABHISHEK PANDEY	14002	CSE	
2	AJAY KUMAR	14004	CSE	
3	AMAAN ZAIDI	14006	CSE	
4	ANSITA RAMOLA	14017	CSE	
5	BIPIN KUMAR	14025	CSE	
6	GIRISHA BAWA	14037	CSE	
7	KHYATI SHARMA	14046	CSE	
8	MANU	14058	CSE	
9	NAZIA SHAMIM	14062	CSE	
10	PIYUSH ANAND	14070	CSE	
11	SATYAM SINGH	14092	CSE	
12	PRABHAT TIWARI	14096	CSE	
13	NAVNEET KUMAR	14097	CSE	
14	SAVANT SHRIDHAR ASHOK	14098	CSE	
15	SPARSH JAIN	14104	CSE	
16	VAIBHAV NEGI	14111	CSE	
17	VIKRANT KUMAR TANWAR	14116	CSE	
18	SWASTIK SINGH	14124	CSE	
19	SHAHID EQBAL	14388	EEE	
20	AMIT AGARWAL	14384	EEE	
21	RITU PANDEY	14387	EEE	
22	JYOTI THAKUR	14400	EEE	
23	NIKHIL BANSAL	14382	EEE	
24	SIMRAN KAUR	14384	EEE	
25	ROHIT PANDEY	14384	EEE	

26	AKSHAT LAMBA	14133	IT	
27	JYOTI GUPTA	14129	IT	Jyoti
28	RAVI GUPTA	14134	IT	Ravi Gupta
29	DEEPAK PANDEY	14151	IT	Deepak Pandey
30	Kunal Chopra	14156	IT	Kunal
31	Neha Tiwari	14155	IT	Neha Tiwari
32	POOJA THAKUR	14154	IT	Pooja
33	KARTIK KHARBANDA	14278	ME	Kartik
34	RITIK KUMAR	14290	ME	Ritik
35	YUVRAJ MEHRA	14302	ME	Yuvraj
36	ANANYA	14410	CSIT	Ananya
37	BHANUSHREE	14417	CSIT	Bhanushree
38	VINEET RANJAN	14421	CSIT	Vineet Ranjan
39	SHIVIKA RAGHAV	14442	CSIT	Shivika
40	SNEHA	14445	CSIT	Sneha
41	ANIL BAIDNATH PANDIT	14450	CSIT	Anil Pandit
42	ANAND KUMAR	14452	CSIT	Anand
43	SANDEEP KUMAR	14669	ECZ	Sandeep Kumar
44	PRIYA VERMA	14676	ECZ	Priya
45	RAJESH SHARMA	14693	ECZ	Rajesh
46	SUMIT GUPTA	14695	ECZ	Sumit Gupta
47	VIJAY MISHRA	14707	ECZ	Vijay
48	SHIVANI PANDEY	14709	ECZ	Shivani
49	GAURAV KUMAR	14169	ECE	Gaurav Kumar

  
Co-ordinator  
Mr. Rajat Kumar

  
Head of the Department  
Dr. Pawan Kumar Sharma

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms. ABHISHEK PANDEY of CSE Dept. (1st Year) has successfully  
completed six days Student Development Program on  
“HTML, CSS” from 7th-12th October 2019**

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director





## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** AJAY KUMAR **of** CSE Dept. (1st Year) **has successfully**  
**completed six days Student Development Program on**  
**“HTML, CSS” from 7th-12th October 2019**

**Dr. Pawan Kumar Sharma**  
Co-ordinator

**Prof. (Dr.) Arpita Gupta**  
Director

Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## **Skill Development Program on HTML & CSS**

**Academic Year:** 2019–20

**Duration:** 7th to 12th October, 2019

**Total Hours:** 30 Hours

**Target Students:** 1st Year B.Tech students

**Department:** Applied Sciences (APS)

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### **Program Objective**

This program was designed to introduce students to the fundamentals of **web development** using **HTML (HyperText Markup Language)** and **CSS (Cascading Style Sheets)**. The aim was to equip students with the skills to create structured, styled, and responsive web pages.

---

### **Key Learning Outcomes**

By the end of this program, students were able to:

- Understand the structure and syntax of HTML.
  - Implement CSS to style and layout web pages.
  - Create multi-page responsive websites.
  - Understand basic web design principles and user experience (UX) considerations.
- 

### **Outcome**

The program successfully introduced students to the **foundational skills in web design**, setting a strong base for future exploration in **JavaScript, frontend frameworks, and full-stack development**.



Director

## Course Content Overview

Day	Topics Covered
Day 1	Introduction to the Web, HTML Basics, Document Structure
Day 2	HTML Tags, Tables, Forms, Semantic Elements
Day 3	Introduction to CSS – Selectors, Properties, Inline/Internal/External Styles
Day 4	CSS Box Model, Layout Techniques (Flexbox/Grid)
Day 5	Responsive Design, Media Queries, Web Page Structuring
Day 6	Mini Web Development Project Presentation

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## Tools & Platforms Used

- **Text Editors:** VS Code / Sublime Text
  - **Browsers for Testing:** Chrome, Firefox
  - **Web Tools:** W3C Validator, CodePen
- 



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## **Assessment & Evaluation Matrix**

<b>Component</b>	<b>Weightage</b>
Daily Lab Assignments	30%
HTML & CSS Coding Quiz	20%
Final Web Project (Individual)	50%
Total	100%



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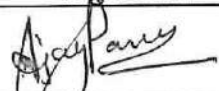
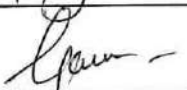
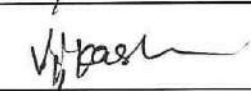


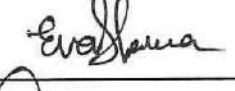
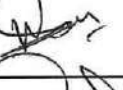

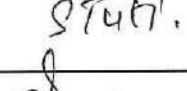

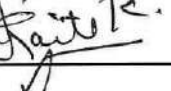
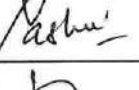
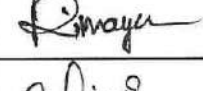

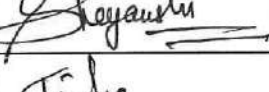
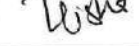
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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 16th-21st September 2019

### SDP on PCB Design and Circuit Simulation

### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AJAY SINGH PANWAR	1823031003	ECE	
2	GAURAV PANDEY	1823031005	ECE	
3	VIKASH KUMAR	1823031008	ECE	
4	SAKSHAM	1823031010	ECE	
5	IRA	1823031012	ECE	
6	EVA SHARMA	1823031015	ECE	
7	VIVAAN	1823031016	ECE	
8	ZEESHAN	1823031017	ECE	
9	STUTI SHARMA	1823031020	ECE	
10	SAIRA	1823031021	ECE	
11	KARTIK	1823031023	ECE	
12	YASHVI	1823031025	ECE	
13	KIMAYA	1823031028	ECE	
14	CHIRAG	1823031029	ECE	
15	SHREYANSHI	1823031031	ECE	
16	TRISHA	1823031036	ECE	

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17	TAIMUR	1823031037	ECE	Taimur
18	CHARVI	1823031038	ECE	Charvi
19	RHEA	1823031040	ECE	Rhea
20	ISHAAN	1823031044	ECE	Ishaan
21	RIEAN	1823031050	ECE	Riaan

**Co-ordinator**  
**Ms. MANISHA BISHT**

**Head of the Department**  
**Dr. SANGHAMITRA V. ARORA**



**Director**  
**Dronacharya Group of Institutions**  
**27, KP-III, Greater Noida-201306**



## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. KARTIK of ECE Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“PCB Design and Circuit Simulation” from 16th-21st September 2019*

**Prof. Sanghamitra V Arora**  
Co-ordinator

Director

**Prof. (Dr.) Arpita Gupta**  
Director

## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. YASHVI of ECE Dept. (2nd Year) has successfully  
completed six days Student Development Program on*

*“PCB Design and Circuit Simulation” from 16th-21st September 2019*



**Prof. Sanghamitra V Arora**  
Co-ordinator



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Prof. (Dr.) Arpita Gupta**  
Director

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### **Certificate Program**

**Title:** PCB Design and Circuit Simulation

**Target Students:** 2nd Year (ECE)

**Duration:** 30 Hours

**Schedule:** 16th – 21st September 2019

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#### **Course Structure**

##### **Module 1: Introduction to PCB Design (5 Hours)**

- Types of PCBs and applications
- Design flow overview
- Introduction to EDA tools (KiCad, Proteus, EasyEDA)

##### **Module 2: Schematic Design (5 Hours)**

- Creating circuits and selecting components
- Assigning symbols and footprints
- Generating netlists

##### **Module 3: PCB Layout Design (6 Hours)**

- Component placement
- Manual and auto-routing techniques
- Design Rule Check (DRC) and Electrical Rule Check (ERC)

##### **Module 4: Circuit Simulation Basics (5 Hours)**

- Introduction to simulation types: DC, AC, and Transient
- Simulating basic analog and digital circuits

##### **Module 5: Advanced Simulation Techniques (5 Hours)**

- Simulation of amplifiers, filters, multivibrators
- Digital logic and timing analysis

##### **Module 6: PCB Fabrication Process Overview (4 Hours)**

- Steps of fabrication: Etching, Drilling, Soldering
- Materials used in PCB production
- Safety and environmental considerations



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## Evaluation Matrix

Component	Details	Weightage
Quiz 1	Based on Modules 1 & 2 (Fundamentals of PCB and Schematic Design)	10%
Quiz 2	Based on Modules 4 & 5 (Simulation Techniques)	10%
Assignment	Design and simulate a basic circuit using simulation software	20%
Practical Evaluation	Assessment of layout, routing quality, and circuit functionality	30%
Final Quiz	Comprehensive test on all modules (Theory + Application-based Questions)	30%



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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** YOGESH **of** ECS Dept. (2nd Year) **has successfully**  
**completed six days Student Development**  
**Program on “ Big Data and Data Mining ”**  
**from 06th-11th April 2020.**



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** GEETIKA **of** ECS Dept. (2nd Year) **has successfully**  
**completed six days Student Development**  
**Program on “ Big Data and Data Mining ”**  
**from 06th-11th April 2020.**



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

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### **Course Module: SDP on Big Data and Data Mining (30 Hours)**

<b>Module No.</b>	<b>Module Title</b>	<b>Topics Covered</b>	<b>Duration (Hours)</b>
<b>1</b>	Introduction to Big Data	Overview, Characteristics (5 V's), Need for Big Data, Challenges & Applications	4
<b>2</b>	Big Data Ecosystem	Hadoop Architecture, HDFS, MapReduce Framework	5
<b>3</b>	Data Mining Basics	Introduction, Knowledge Discovery in Databases (KDD), Types of Data, Applications	4
<b>4</b>	Data Preprocessing	Data Cleaning, Integration, Transformation, and Reduction	4
<b>5</b>	Classification and Prediction	Decision Trees, k-NN, Naive Bayes, Model Evaluation	4
<b>6</b>	Clustering and Association Rule Mining	k-Means, Hierarchical Clustering, Apriori Algorithm	4
<b>7</b>	Tools & Hands-on (Practical Lab Sessions)	Hands-on using Weka, RapidMiner, or Python (Pandas, Scikit-learn)	5



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## Evaluation Matrix

Component	Mode of Evaluation	Weightage (%)
Quiz 1	After Module 2 (MCQ/Short Answers)	10%
Quiz 2	After Module 5 (MCQ/Short Answers)	10%
Assignment	Mini case study on real-world dataset	20%
Practical Evaluation	Performance in lab sessions (tool usage, result interpretation)	30%
Final Quiz	Comprehensive quiz covering all modules	30%



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# **DRONACHARYA**

Group of Institutions  
Greater Noida



## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** AFTAB ALAM **of** CSE Dept. (2nd Year) **has successfully**  
**completed six days Student Development Program on**  
**“Data Analytics and Visualization using Power BI or Tableau”**  
**from 23rd-28th March 2020**

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Director

Dronacharya Group of Institutions  
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# **DRONACHARYA**

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Greater Noida



## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. AKASH CHAUHAN of CSE Dept. (2nd Year) has successfully**  
***completed six days Student Development Program on***  
***“Data Analytics and Visualization using Power BI or Tableau”***  
***from 23rd-28th March 2020***

**Dr. Aadarsh Malviya**  
*Co-ordinator*

**Prof. (Dr.) Arpita Gupta**  
*Director*

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## **Certificate Program**

**Title:** Data Analytics and Visualization using Power BI or Tableau

**Target Students:** 2nd Year (CSE, CSIT, IT)

**Duration:** 36 Hours

**Schedule:** 23rd – 28th March 2020

## **Course Structure**

### **Unit 1: Fundamentals of Data Analytics (6 Hours)**

- Introduction to data, information, and insights
- Types of analytics: Descriptive, Diagnostic, Predictive, Prescriptive
- Data lifecycle and analytics workflow

### **Unit 2: Data Handling and Preparation (6 Hours)**

- Importing data from various sources (Excel, CSV, databases)
- Data cleaning, transformation, and shaping
- Power Query Editor (in Power BI) or Data Interpreter (in Tableau)

### **Unit 3: Introduction to Power BI/Tableau (6 Hours)**

- Overview of Power BI and Tableau interfaces
- Connecting to data sources
- Creating basic visualizations (bar, line, pie charts, etc.)

### **Unit 4: Advanced Visualization Techniques (9 Hours)**

- Interactive dashboards
- Filters, slicers, drill-downs
- Maps, KPI indicators, custom visuals
- Calculated columns and measures (DAX or Tableau Calculations)

### **Unit 5: Case Study & Project Work (9 Hours)**

- Real-world use case analysis (Sales, HR, IoT, etc.)
- End-to-end dashboard project
- Group-wise presentations and report preparation



## Evaluation Matrix

Component	Details	Weightage
Quiz 1	Based on Units 1 & 2 (Analytics concepts + data handling)	10%
Quiz 2	Based on Unit 4 (Visualization techniques and tool features)	10%
Assignment	Create a mini dashboard using sample data	20%
Practical Evaluation	Tool usage, data model quality, interactivity, and aesthetics	30%
Final Project	Group project with real-time dataset, visual storytelling, presentation & report	30%



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B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 05th-10th August 2019



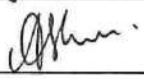

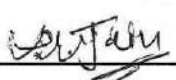
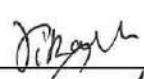

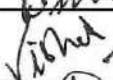
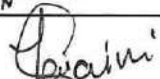
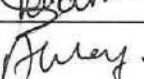
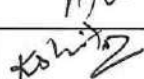


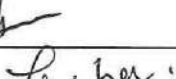
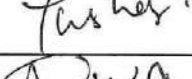
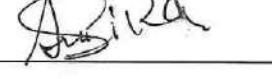
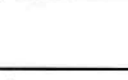
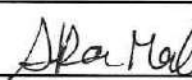
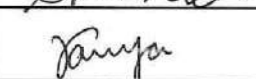
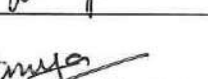

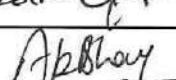
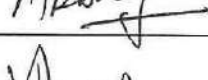
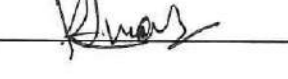
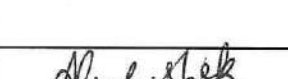
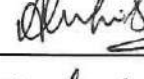
### Certificate Program on Role of the blockchain

### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AADITYA BHARDWAJ	1823010001	CSE	<i>Aaditya</i>
2	ABHISHEK MISHRA	1823010003	CSE	<i>Abhishek Mishra</i>
3	ABHISHEK SINGH	1823010005	CSE	<i>Abhishek</i>
4	ADARSH DUBEY	1823010007	CSE	<i>Adarsh</i>
5	AKASH TOMAR	1823010012	CSE	<i>Akash</i>
6	AMAN CHAWLA	1823010014	CSE	<i>Aman</i>
7	ANURAG	1823010020	CSE	<i>Anurag</i>
8	KARTIKEY NIRWAN	1823010039	CSE	<i>Kartikay Nirwan</i>
9	KRITI SHARMA	1823010040	CSE	<i>Kriti</i>
10	KUMAR TARUN	1823010041	CSE	<i>Tarun</i>
11	LAXITA ADHIKARI	1823010043	CSE	<i>Laxita</i>
12	MANAS VATS	1823010045	CSE	<i>Manas</i>
13	MANJEET KUMAR	1823010046	CSE	<i>Manjeet</i>
14	PRIYANKA	1823010062	CSE	<i>Priyanka</i>
15	PRIYANSH KAMAL	1823010063	CSE	<i>Priyansh</i>
16	RAVINDRA PAL	1823010065	CSE	<i>Ravindra</i>
17	RISHAB THAKUR	1823010066	CSE	<i>Rishab</i>
18	RISHAV KUMAR	1823010067	CSE	<i>Rishav</i>
19	RISHU TIWARI	1823010068	CSE	<i>Rishu</i>
20	RITHIK RAWAT	1823010069	CSE	<i>Rithik</i>
21	SANA BISHT	1823010073	CSE	<i>Sana Bisht</i>
22	SHRI KRISHN KUMAR	1823010079	CSE	<i>Shri Krishna</i>

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23	SUDHIR KUMAR	1823010082	CSE	
24	SUHAIB AHMAD KHAN	1823010084	CSE	
25	SYED ASHAR AHMAD	1823010086	CSE	
26	TUSHAR SHARMA	1823010088	CSE	
27	VAINISHA JAIN	1823010089	CSE	
28	VIJENDRA KUMAR SHARMA	1823010090	CSE	
29	VIKASH KUMAR	1823010091	CSE	
30	VISHAL THAKUR	1823010093	CSE	
31	VISHAL YADAV	1823010094	CSE	
32	YASH SAINI	1823010097	CSE	
33	ABHAY SHARMA	1823010098	CSE	
34	KSHITIZ KUMAR	1823010100	CSE	
35	AJAY VERMA	1823010010	CSE	
36	AMIT SINGH	1823010017	CSE	
37	TUSHAR JAISWAL	1823010087	CSE	
38	ANSHIKA	1823010103	CSE	
39	JIVIN	1823010108	CSE	
40	ADARSH MALIK	1823010110	CSE	
41	VANYA	1823010112	CSE	
42	RYAN GAUTAM	1823010113	CSE	
43	SUMER YADAV	1823010115	CSE	
44	AKSHAY KUMAR	1823011006	CSIT	
45	AMAN AGGARWAL	1823011007	CSIT	
46	AMAN KUMAR	1823011008	CSIT	
47	ABHISHEK SHAH	1823011012	CSIT	
48	GURPREET SINGH	1823011020	CSIT	
49	KARTIK GOSWAMI	1823011022	CSIT	
50	MAYUR	1823011024	CSIT	



51	MEHUL GARG	1823011026	CSIT	Mehul
52	MOHIT	1823011027	CSIT	Mohit
53	MRIDUL MISHRA	1823011028	CSIT	Mridul
54	PARAMJEET	1823011030	CSIT	Paramjeet
55	PRANJUL SINGH RATHOD	1823011031	CSIT	Pranjul
56	PRITESH RANJAN	1823011032	CSIT	Pritesh
57	RAHUL RAJ	1823011034	CSIT	Rahul
58	SAJAN	1823011038	CSIT	Sajan
59	JITESH BHATIA	1823011050	CSIT	Jitesh
60	BALAL TARIQUE	1823011052	CSIT	Balal
61	ISHAN MARHATTA	1823011054	CSIT	Ishan
62	YASHASWVI SRIVASTAVA	1823011058	CSIT	
63	FARAJ KHAN	1823013003	IT	Faraj
64	JIVANSH BHATIA	1823013005	IT	
65	KARMVEER CHAUHAN	1823013006	IT	Karmveer
66	MD MAJID KHAN	1823013008	IT	MD Majid
67	NEERAJ PUROHIT	1823013010	IT	NEERAJ
68	JIYA	1823013012	IT	
69	AARUSH	1823013014	IT	Aarush
70	IVAN	1823013018	IT	Ivan
71	PANKAJ SHUKLA	1823013022	IT	P.S.S.
72	ANIRUDDHA SAHA	1823013025	IT	Aniruddha Saha
73	SHIV PRASAD MAURYA	1823013028	IT	
74	SANDEEP MALIK	1823013030	IT	Sandeep
75	SUJIT KUMAR SINGH	1823013032	IT	Sujit

Co-ordinator  
Dr. SUCHITA HOTWANI

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

Head of the Department  
Mr. BIPIN PANDEY

## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. PARAMJEET of CSIT Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ Role of the blockchain” from 05th-10th August 2019*



Prof Shantanu Pant.  
Co-ordinator



Prof. Bipin Pandey  
HOD



Prof. (Dr.) Arpita Gupta  
Director



Director

## Student Development Program

### CERTIFICATE OF COMPLETION

*This is to certify that*

*Mr./Ms. RAHUL RAJ of CSIT Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ Role of the blockchain” from 05th-10th August 2019*



**Prof Shantanu Pant.**  
Co-ordinator



**Prof. Bipin Pandey**  
HOD



**Prof. (Dr.) Arpita Gupta**  
Director



Director

## **Certificate Program**

**Title:** *Role of Blockchain Technology*

**Target Students:** 2nd Year – CSE, IT, AIML, CSIT

**Duration:** 36 Hours

**Schedule:** 05th – 10th August 2019

**Organizing Department:** Computer Science & Engineering (CSE)

## **Course Structure**

### **Module 1: Introduction to Blockchain Technology (6 Hours)**

- Evolution of blockchain
- Key concepts: blocks, chains, nodes, consensus
- Types of blockchain: Public, Private, Consortium
- Benefits and challenges

### **Module 2: Cryptography & Distributed Ledger Fundamentals (6 Hours)**

- Hash functions and digital signatures
- Merkle Trees
- Distributed ledger vs traditional databases
- Security principles in blockchain

### **Module 3: Blockchain Platforms & Architecture (6 Hours)**

- Bitcoin and Ethereum overview
- Blockchain architecture layers
- Smart contracts and their working
- Tools: MetaMask, Ganache, Remix IDE

### **Module 4: Applications of Blockchain (6 Hours)**

- Use cases in finance, healthcare, supply chain, and government
- NFTs and tokenization
- Role of blockchain in Web 3.0
- Real-world success stories



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### **Module 5: Smart Contract Development with Solidity (6 Hours)**

- Basics of Solidity language
- Writing, deploying, and testing smart contracts
- Gas fees and transaction lifecycle
- DApp basics (optional introduction)

### **Module 6: Project and Case Study (6 Hours)**

- Hands-on project: Simple blockchain or smart contract demo
- Industry case study discussion
- Group-wise presentation
- Feedback and wrap-up session



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## Evaluation Matrix

Component	Details	Weightage
Quiz 1	Concepts from Modules 1 & 2 (Blockchain basics and cryptography)	10%
Quiz 2	Platforms, tools, and applications (Modules 3 & 4)	10%
Assignment	Develop and document a basic smart contract or DLT model	20%
Practical Evaluation	Evaluation of implementation and understanding during hands-on sessions	30%
Final Project	Group project + presentation on a use case or prototype	30%


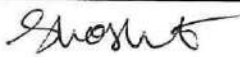

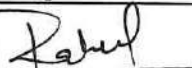
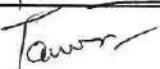
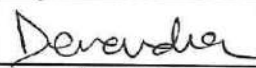
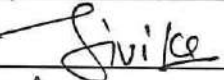

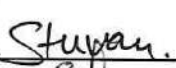
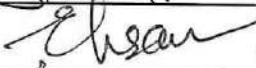
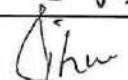
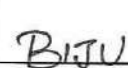
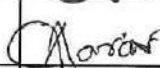

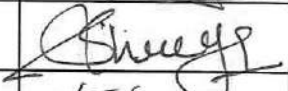

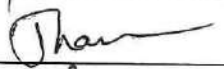
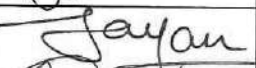
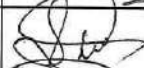
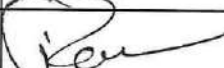



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE:20th-25th January 2020				
Certificate Program on Business Communication and Leadership for Engineers				
Attendance Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AKANKSHA GARG	1823070001	MBA	
2	KUMAR SHOSHIT RAJ	1823070004	MBA	
3	PARTIBHA	1823070007	MBA	
4	RAHUL CHAUHAN	1823070009	MBA	
5	TANYA YADAV	1823070012	MBA	
6	DEVENDRA UPADHYAY	1823070014	MBA	
7	JIVIKA	1823070015	MBA	
8	TARINI	1823070016	MBA	
9	STUVAN	1823070017	MBA	
10	EHSAAN	1823070018	MBA	
11	PIHU	1823070019	MBA	
12	BIJU	1823070020	MBA	
13	AARAV	1823070022	MBA	
14	SHAYAK	1823070024	MBA	
15	SHREYA	1823070025	MBA	
16	TAIMUR KHAN	1823070027	MBA	
17	JHANVI KAPOOR	1823070029	MBA	
18	JAYAN	1823070032	MBA	
19	SHLOK	1823070033	MBA	
20	PRERNA	1823070035	MBA	
21	ANAY	1823070036	MBA	

**Co-ordinator**  
**Dr. SAHAB SINGH**

**Director**  
**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306

**Head of the Department**  
**Dr. VANDANA PAREEK**

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. AKANKSHA GARG of MBA Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ Business Communication and Leadership for Engineers ”  
from 20th-25th January 2020**

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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**DRONACHARYA**  
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Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** PARTIBHA **of** MBA Dept. (2nd Year) **has successfully**  
**completed six days Student Development Program on**  
**“ Business Communication and Leadership for Engineers ”**  
**from 20th-25th January 2020**

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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# **DRONACHARYA**

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program**

- **Program Title:** Business Communication and Leadership
- **Target Group:** MBA Students
- **Duration:** 30 Hours
- **Dates:** 20th – 25th January 2020
- **Organized By:** MBA Department

### **Course Modules**

<b>Module</b>	<b>Topic</b>	<b>Key Contents</b>
Module 1	Fundamentals of Business Communication	Communication models, barriers, etiquette, verbal & non-verbal cues
Module 2	Written & Professional Communication	Email writing, résumé/CV, business reports, formal letters
Module 3	Presentation and Public Speaking Skills	Presentation design, delivery skills, storytelling, handling Q&A
Module 4	Leadership Essentials for Engineers	Leadership types, emotional intelligence, decision-making, team building
Module 5	Practical Sessions and Role Plays	GDs, debates, mock interviews, role-plays, real-time feedback



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## Evaluation Matrix

Assessment Component	Description	Weightage
Quiz 1	Covers Modules 1 & 2: Communication basics and writing skills	10%
Quiz 2	Covers Module 4: Leadership styles and decision-making	10%
Assignment	Résumé, cover letter, and formal email writing	20%
Presentation Evaluation	Individual presentation on assigned topic	30%
Final Activity	Group Discussion or Role Play with peer/instructor feedback	30%



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## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### Certificate Program

- **Program Title:** *Trade Liberalization and its Effects on Developing Economies*
- **Target Students:** 2nd Year – MBA
- **Duration:** 36 Hours
- **Dates:** 25th – 30th November 2019
- **Organized By:** Department of Management Studies

### Course Modules

Module	Title	Key Topics
Module 1	Introduction to Trade Liberalization	Concepts, historical background, WTO and global trade reforms
Module 2	Impact on Developing Economies	Economic growth, FDI, trade deficits, case studies from Asia and Africa
Module 3	Sectoral Impact and Challenges	Agriculture, manufacturing, service sector, local industry protection
Module 4	Policy, Regulation, and Institutional Role	Trade policies, regulatory frameworks, IMF, World Bank, trade agreements



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## Evaluation Matrix

Component	Description	Weightage
Quiz 1	Based on Module 1 (Fundamentals of trade liberalization)	10%
Quiz 2	Based on Modules 2 & 3 (Impact and sector-specific issues)	10%
Assignment	Analytical write-up on a trade case study or comparative policy review	20%
Group Presentation	Presentation on trade effects on a selected developing economy	30%
Final Activity	Structured debate or policy proposal simulation exercise	30%



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DATE: 25th-30th November 2019				
Certificate Program on Trade Liberalization and its Effects on Developing				
Attendance Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	HIMANSHU NAGAR	1823070002	MBA	Himanshu
2	MAHIMA NARULA	1823070005	MBA	Mahima
3	MOHIT SINGH BHANDARI	1823070006	MBA	Mohit
4	PARTIBHA	1823070007	MBA	Partibha
5	PUJA KUMARI	1823070008	MBA	Puja
6	RAHUL CHAUHAN	1823070009	MBA	Rahul Chauhan
7	SHOURYA RAJ	1823070010	MBA	Shourya
8	SIDDHARTH CHOWDHARY	1823070011	MBA	Siddharth
9	TAWQEER ALLAQABAND	1823070013	MBA	Tawqeer
10	PIHU	1823070019	MBA	Pihu
11	KIMAYA	1823070021	MBA	Kimaya
12	ADVIKA	1823070023	MBA	Advika
13	LAKSHIT	1823070026	MBA	Lakshit
14	LAKSHAY	1823070028	MBA	Lakshay
15	NISHITH	1823070030	MBA	Nishith
16	SAMAR	1823070031	MBA	Samara
17	AMIRA	1823070034	MBA	Amira
18	TEJAS	1823070037	MBA	Tejas
19	PRANAY	1823070038	MBA	Pranay

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20	RAUNAK	1823070039	MBA	Raunak
21	ANIKA	1823070040	MBA	Anika
22	LAGAN	1823070041	MBA	Lagan
23	DRISHYA	1823070042	MBA	Drishya

**Co-ordinator**  
**Dr. SAHAB SINGH**

**Head of the Department**  
**Dr. VANDANA PAREEK**



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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms. MAHIMA NARULA of MBA Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ Trade Liberalization and its Effects on Developing Economies ”  
from 25th-30th November 2019**

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Mr./Ms. MOHIT SINGH BHANDARI of MBA Dept. (2nd Year) has successfully  
completed six days Student Development Program on  
“ Trade Liberalization and its Effects on Developing Economies ”  
from 25th-30th November 2019***

  
**Dr. Sahab Singh**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** NITISH JAINT **of** ME Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “Multi-Functional Vehicle Systems”  
from 18th-23rd May 2020*



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



*Director*

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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** SHRAY **of** ME Dept. (2nd Year)

*has successfully completed six days*

*Student Development Program on “Multi-Functional Vehicle Systems”  
from 18th-23rd May 2020*



**Dr. Shailesh Kumar Singh**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



Director

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### Certificate Program Details

Program Title	Target Students	Dates	Duration	Department
Certificate Program on Multi-Functional Vehicle Systems	2nd Year	18th – 23rd May 2020	30 Hours	Mechanical Engineering Dept.

### Course Modules

Module	Module Title	Topics Covered
Module 1	Introduction to Vehicle Systems	Overview of vehicle subsystems, classifications, mechanical & electrical systems
Module 2	Mechatronic Integration	Sensors, actuators, electronic control units (ECUs), embedded systems in vehicles
Module 3	Powertrain and Drivetrain Technologies	Engine types, hybrid systems, gear systems, differential, torque management
Module 4	Vehicle Comfort and Safety Systems	HVAC systems, ABS, ESP, infotainment, human-machine interaction, ergonomic design



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## Evaluation Matrix

Component	Description	Weightage
Quiz 1	Based on Modules 1 & 2: System basics and mechatronics	10%
Quiz 2	Based on Modules 3 & 4: Powertrain and safety/comfort systems	10%
Lab Assignments	Vehicle subsystem simulation or modeling (MATLAB/Simulink/CAD)	30%
Case Study Analysis	Comparative study of vehicle platforms or system innovations	20%
Group Presentation	Team presentation on a smart/multi-functional vehicle design	30%



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 7th-12th October 2019

AI-driven Compiler Optimizations				
Attendance Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	JAYANT SHIVAM	1723010039	CSE	Jayant
2	PRASHANT KUMAR	1723010060	CSE	Prashant
3	RITIK NEGI	1723010074	CSE	Ritik
4	VAISHALI BHUTANI	1723010099	CSE	Vaishali
5	ABHIJEET KUMAR	1723010003	CSE	Abhijeet
6	ABHISHEK KUMAR	1723010005	CSE	Abhishek
7	ANAND KUMAR	1723010009	CSE	Anand
8	ANSHITA GARG	1723010013	CSE	Anshita
9	DIPANKAR BHATIA	1723010026	CSE	Dipankar
10	HEENA	1723010032	CSE	Heena
11	JATIN KUMAR	1723010037	CSE	Jatin
12	JAYANT KUMAR	1723010038	CSE	Jayant
13	KUMAR ANAND	1723010041	CSE	Anand
14	Mayank Bhardwaj	1723010044	CSE	Mayank
15	MD KAUSHAR IQBAL	1723010045	CSE	MD Kaushar
16	MUSKAN	1723010048	CSE	Muskan
17	PRANAY PANDEY	1723010058	CSE	Pranay
18	PRINCE JHA	1723010062	CSE	Prince
19	PRIYANKA KUMARI	1723010064	CSE	Priyanka
20	Shakti Priya Saurav	1723010081	CSE	Shakti Priya
21	shivam kumar	1723010083	CSE	Shivam
22	Shubham Kumar	1723010085	CSE	Shubham

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23	TARUN	1723010094	CSE	Tarun
24	UTKARSH KASHYAP	1723010098	CSE	Utkarsh
25	VIPUL	1723010103	CSE	Vipul
26	APOORVA SRIVASTAVA	1723010015	CSE	Apoorva
27	KRITIKA GOEL	1723010107	CSE	Kritika
28	RAJAT TOMAR	1723010108	CSE	Rajat
29	RAJESH MANKOTI	1723010109	CSE	Rajesh
30	RAVI SHANKAR YAD	1723010110	CSE	Ravi
31	BHASKAR PRASAD	1723010118	CSE	Bhaskar
32	PRAVEEN YADAV	1723010121	CSE	Praveen
33	ABHAY SHARMA	1823010901	CSE	Abhay
34	ASHRAFUL HAQUE	1723011007	CSIT	Ashraf
35	AASHIKA RASTOGI	1723011002	CSIT	Aashika
36	ABHISHEK RAI	1723011004	CSIT	Abhishek
37	ANKUR	1723011006	CSIT	Ankur
38	BASANT CHAUDHARY	1723011012	CSIT	Basant
39	Gomsi Pathak	1723011014	CSIT	Gomsi
40	KARTIKAY SINGH	1723011018	CSIT	Kartikay
41	KRISHNA SINGH	1723011019	CSIT	Krishna
42	MAYUR	1723011020	CSIT	Mayur
43	PARAS SONI	1723011028	CSIT	Paras
44	PRANJUL SINGH RATHOE	1723011030	CSIT	Pranjul
45	ROBINS KUMAR	1723011032	CSIT	Robins
46	SHIKHA KUMARI	1723011034	CSIT	Shikha
47	SMRITI GUPTA	1723011039	CSIT	Smriti
48	SOURABH SINGH	1723011040	CSIT	Sourabh
49	SUBHASH	1723011041	CSIT	Subhash
50	TUSHAR TAYAL	1723011044	CSIT	Tushar
51	VISHVA DIWAKAR	1723011047	CSIT	Vishva
52	KRITKA CHOPRA	1723011050	CSIT	Kritika
53	KRISHAN KANHIYA	1723011052	CSIT	Krishan



54	NEHA BHOJ	1723011053	CSIT	Neha
55	SARGAM	1723011057	CSIT	Sargam
56	ESHA	1723011061	CSIT	Esha
57	TANYA KHANNA	1723011063	CSIT	Tanya
58	HIMANSHU KUMAR	1723011064	CSIT	Himanshu
59	ANCHAL	1723013001	IT	Anchor
60	ATUL	1723013004	IT	Atul
61	DHRUV NEHRU	1723013006	IT	Dheer
62	HARSH KUMAR	1723013011	IT	Harsh
63	VAIBHAV YADAV	1723013015	IT	Vaibhav
64	YATIN VERMA	1723013018	IT	Yatin
65	GAURAV SINGH	1723013020	IT	Gaurav
66	ANCHAL	1723013022	IT	Anchor
67	ATUL	1723013024	IT	Atul
68	KUNIKA	1723013025	IT	Kunika
69	LAKSHAY KALRA	1723013026	IT	Lakshay
70	MANAV JULKA	1723013027	IT	Manav
71	PIYUSH SHUKLA	1723013031	IT	Piyush
72	RHEA KHANNA	1723013032	IT	Rhea
73	RYTHAM MITTAL	1723013033	IT	Rytham
74	SAUMYA JAIN	1723013034	IT	Saumya
75	SHREYA CHATTERJI	1723013035	IT	Shreya
76	SRISHTI GUPTA	1723013036	IT	Srishti
77	TEJASVIN TANWAR	1723013038	IT	Tejasvin
78	VANSHIKA GOEL	1723013039	IT	Vanshika

**Co-ordinator**  
**Dr. SUCHITA HOTWANI**

**Head of the Department**  
**Mr. BIPIN PANDEY**

  
Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*


*Mr./Ms.* JAYANT SHIVAM *of* CSE Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ AI-driven Compiler  
Optimizations” from 7th-12th October 2019.*

  
**Dr. Bipin Pandey**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms.* ABHIJEET KUMAR *of* CSE Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ AI-driven Compiler  
Optimizations” from 7th-12th October 2019.*

  
**Dr. Bipin Pandey**  
*Co-ordinator*

  
**Prof. (Dr.) Arpita Gupta**  
*Director*

  
Director

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Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program: AI-driven Compiler Optimizations**

- **Target Students:** 3rd Year
- **Duration:** 36 Hours
- **Dates:** 7th – 12th October 2019
- **Organizing Department:** CSE - AIML

### **Program Overview**

This certification program provides hands-on exposure to compiler design enhanced by Artificial Intelligence. It focuses on traditional compiler structure, optimization techniques, and introduces the application of AI and machine learning in optimizing code efficiency and execution.

### **Learning Modules**

1. **Module 1: Compiler Fundamentals**
  - Lexical and Syntax Analysis
  - Intermediate Representations
  - Code Optimization Basics
2. **Module 2: AI in Compiler Design**
  - Machine Learning Integration
  - AI Decision Models for Optimization
  - Supervised & Reinforcement Learning Concepts
3. **Module 3: Data-Driven Optimization Techniques**
  - Feature Extraction
  - Model Training for Performance Prediction
  - AI Feedback Loops in Compilation
4. **Module 4: Tools and Implementation**
  - Using LLVM and TensorFlow
  - Case Studies: AI-enhanced Compilers
  - Current Research & Trends



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## Evaluation Scheme

Activity	Description	Weightage
<b>Quiz 1</b>	Based on core compiler concepts	10%
<b>Assignment</b>	Compare optimization strategies	20%
<b>Lab Practicals</b>	LLVM, AI models integration	30%
<b>Quiz 2</b>	AI tools and implementation-focused	10%
<b>Final Mini-Project</b>	Build an AI-aided compiler module	30%



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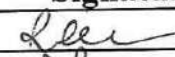

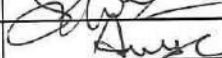
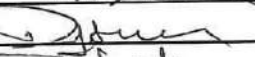
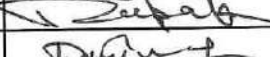
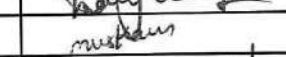
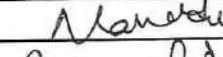
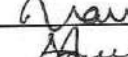
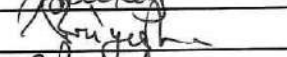
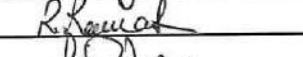
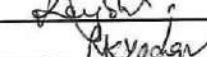
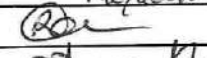
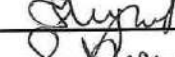
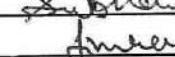
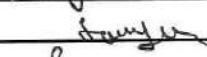

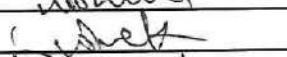
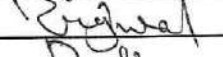
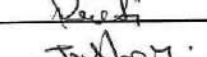
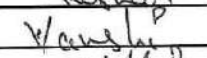
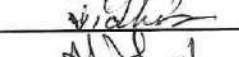
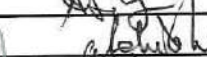
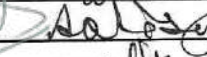
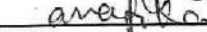

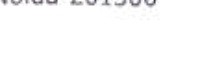

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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 02nd-7th December 2019

### SDP on Ethics in Cybersecurity: Balancing Offensive and Defensive measures responsibly

#### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	RISHABH MISHRA	1723010071	CSE	
2	AARUSHI RAWAT	1723010002	CSE	
3	Anshul Sharma	1723010014	CSE	
4	ARYAN RAWAT	1723010018	CSE	
5	ASHEESH KUMAR SINGH	1723010019	CSE	
6	DEEPAK JOSHI	1723010021	CSE	
7	Dhanajit kapali	1723010023	CSE	
8	muskan bhardwaj	1723010050	CSE	
9	NAVENDU KUMAR	1723010051	CSE	
10	NAVONIL DAS	1723010053	CSE	
11	PANKAJ MASIWAL	1723010054	CSE	
12	Priyesh Pandey	1723010065	CSE	
13	RACHIT RAWAT	1723010067	CSE	
14	RAJIV KUMAR	1723010068	CSE	
15	RANJIT KUMAR YADAV	1723010070	CSE	
16	RITIK VERMA	1723010075	CSE	
17	SHAGUFA MALLICK	1723010079	CSE	
18	SHUBHAM KUMAR SHARMA	1723010086	CSE	
19	SIMRAN SINGH	1723010088	CSE	
20	SOMYA DAS	1723010089	CSE	
21	SURAJ JOSHI	1723010092	CSE	
22	VISHNU TRIPATHI	1723010105	CSE	
23	VIVEK PANDEY	1723010106	CSE	
24	PRAJWAL KOUL	1723010902	CSE	
25	PREETI RANA	1723010111	CSE	
26	TUSHAR BAID	1723010113	CSE	
27	VANSHI ARORA	1723010114	CSE	
28	VIDHI DURGAPAL	1723010115	CSE	
29	ATIF AZEEZ	1723011008	CSIT	
30	ABHISHEK	1723011003	CSIT	
31	Aditya Goswami	1723011005	CSIT	
32	AVANTIKA RAO	1723011009	CSIT	

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33	AYUSH KUMAR GUPTA	1723011010	CSIT	Ayush Kumar Gupta
34	GAURAV TIWARI	1723011013	CSIT	Gaurav Tiwari
35	Mohd Saad Umair Ansari	1723011021	CSIT	Mohd Saad
36	Mohit Solanki	1723011023	CSIT	Mohit
37	NIKHIL KUMAR SHARMA	1723011024	CSIT	Nikhil
38	NISHA VERMA	1723011025	CSIT	Nisha
39	OMKARESHWAR PANDA	1723011026	CSIT	Omkar
40	PANKAJ KUMAR	1723011027	CSIT	Pankaj
41	PRANAV UNIYAL	1723011029	CSIT	Pranav
42	prerna verma	1723011031	CSIT	Prerna
43	sahil choubey	1723011033	CSIT	Sahil
44	Tushar Thereja	1723011042	CSIT	Tushar
45	UTTAM KUMAR TIWARI	1723011045	CSIT	Uttam
46	VIVEK YADAV	1723011048	CSIT	Vivek
47	TANISHKA TIWARI	1723011049	CSIT	Tanishka
48	MANKIRAT KAUR	1723011051	CSIT	Mankirat
49	NISHU KUMARI	1723011054	CSIT	Nishu
50	SHIVANGI	1723011055	CSIT	Shivangi
51	VIDHAN	1723011056	CSIT	Vidhan
52	VIVEK KUMAR	1723011058	CSIT	Vivek Kumar
53	RISHABH RAJ	1723011060	CSIT	Rishabh
54	SHIVAM CHAUHAN	1823011910	CSIT	Shivam
55	ANUJ RANGAR	1723013003	IT	Anuj Rangar
56	GARIMA	1723013008	IT	Garima
57	shivam kumar	1723013012	IT	Shivam
58	Vikas Mishra	1723013016	IT	Vikas
59	ANUJ SINGH	1723013023	IT	Anuj
60	MOHIT CHAMOLI	1723013028	IT	Mohit
61	MUSKAN	1723013029	IT	Muskan
62	TANISHI GOYAL	1723013037	IT	Tanishi
63	VRINDA SINGH	1723013040	IT	VRINDA Singh

**Co-ordinator**  
**Mr. RAJAT KUMAR**

**Head of the Department**  
**Mr. BIPIN PANDEY**



Director

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

***Mr./Ms. DEEPAK JOSHI of CSE Dept. (3rd Year)***

***has successfully completed six days Student Development Program on***

***“ Ethics in Cybersecurity: Balancing Offensive and Defensive measures responsibly”  
from 02nd-7th December 2019***



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



*Director*

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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** PANKAJ MASIWAL **of** CSE Dept. (3rd Year)

*has successfully completed six days Student Development Program on*

*“ Ethics in Cybersecurity: Balancing Offensive and Defensive measures responsibly”  
from 02nd-7th December 2019*



**Dr. Bipin Pandey**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



## **Student Development Program (SDP): Ethics in Cybersecurity**

### *Balancing Offensive and Defensive Measures Responsibly*

- **Target Students:** 3rd Year
- **Duration:** 30 Hours
- **Dates:** 2nd – 7th December 2019
- **Departments:** CSE, IT, CSIT

## **Program Highlights**

This SDP explores the ethical dimensions of cybersecurity, emphasizing the importance of maintaining a responsible balance between offensive strategies (like ethical hacking) and defensive mechanisms (like intrusion detection and encryption). Students will learn practical applications alongside ethical frameworks.

## **Key Modules**

- 1. Foundations of Cybersecurity Ethics**
  - Cyber laws and digital ethics
  - Ethics in ethical hacking and penetration testing
- 2. Defensive Measures and Best Practices**
  - Network security and firewalls
  - Role of cryptography in defense
  - Threat identification and response
- 3. Offensive Security Insights**
  - Vulnerability scanning
  - Social engineering and ethical hacking techniques
  - Red teaming vs. Blue teaming
- 4. Ethical Dilemmas & Case Studies**
  - Real-world scenarios and ethical breaches
  - Role-play and discussion: “Hacktivism vs. Criminal Activity”



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## Evaluation Matrix

Component	Description	Weightage
Quiz 1	Basics of cybersecurity and ethics	10%
Assignment	Report on a cyber-ethical case study	20%
Lab Sessions	Practical on ethical hacking & securing systems	30%
Quiz 2	Applied ethics in real-world cybersecurity	10%
Final Project	Design and defense of a simulated secure system	30%
Total		100%



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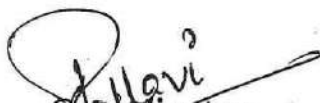
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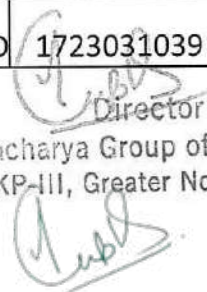
Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 24th-29th February 2020

Certificate Program on Embedded Systems Programming				
Attendance Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	MANSHI	1723031007	EEE	Mansi
2	SAMEER CHAUHAN	1723031002	EEE	Sameer
3	ABHISHEK KUMAR	1723031004	EEE	Abhishek
4	MOHAN KUMAR	1723031006	EEE	Mohan
5	OM PRAKASH POKHREL	1723031015	EEE	Om
6	PANKAJ YADAV	1723031017	EEE	Pankaj
7	SHUBHAM SHARMA	1723031019	EEE	Shubham
8	NIKHIL CHAUDHARY	1723031022	EEE	Nikhil
9	PRANJAL MEENA	1723031023	EEE	Pranjal
10	SHAILESH	1723031025	EEE	Shailesh
11	UDAY PATHANIA	1723031026	EEE	Uday
12	URVASHI	1723031028	EEE	Urvashi
13	SHUBHAM PRATAP S	1723031029	EEE	Shubham
14	BADAL SINGH	1723031033	EEE	Badal
15	HARSHNA	1723031035	EEE	Harshna
16	KHUSHBOO	1723031036	EEE	Khushboo
17	ABUL HASSAN LAIQ AHMAD SID	1723031039	EEE	Abul

  
Coordinator  
Dr. Pallavi Verma

  
Director  
Dronacharya Group of Institutions  
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Head of the Department  
Dr. Sanghamitra V. Arora

Director  
Dronacharya Group of Institutions  
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### **Student Development Program**

#### **CERTIFICATE OF COMPLETION**

*This is to certify that*

*Mr./Ms. MANSHI of EEE Dept. (3rd Year) has successfully  
completed six days Student Development Program on  
“ Embedded Systems Programming” from 24th-29th February 2020.*



**Prof. Sanghamitra V Arora**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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## Group of Institutions

Greater Noida

### **Student Development Program**

#### **CERTIFICATE OF COMPLETION**

*This is to certify that*

***Mr./Ms. ABHISHEK KUMAR of EEE Dept. (3rd Year) has successfully  
completed six days Student Development Program on  
“ Embedded Systems Programming” from 24th-29th February 2020.***



**Prof. Sanghamitra V Arora**  
*Co-ordinator*



**Prof. (Dr.) Arpita Gupta**  
*Director*



**Director**  
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Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

### **Certificate Program on Embedded Systems Programming**

- **Target Students:** 3rd Year
- **Duration:** 36 Hours
- **Dates:** 24th – 29th February 2020
- **Department:** EEE

### **Program Overview**

This Certificate Program is designed to equip students with in-depth knowledge and hands-on experience in Embedded Systems Programming. It focuses on microcontroller-based systems, embedded C, real-time programming, and system integration skills vital for electronics and electrical engineering careers.

### **Course Modules**

1. **Introduction to Embedded Systems**
  - Characteristics, applications, and architecture
  - Embedded system lifecycle
2. **Microcontrollers and Hardware Interfaces**
  - Architecture of 8051 / AVR / ARM-based controllers
  - Interfacing sensors, actuators, and memory modules
3. **Embedded C Programming**
  - Basics of C for embedded
  - Input/output handling, timers, interrupts
4. **RTOS and Real-Time Embedded Applications**
  - RTOS concepts and task scheduling
  - Case studies in automotive and industrial automation
5. **Hands-on Lab**
  - LED/blinker programming
  - Sensor-based mini projects
  - Debugging and testing on hardware kits



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## Evaluation Matrix

Component	Description	Weightage
Quiz 1	Embedded fundamentals & microcontroller basics	10%
Lab Work	Daily hands-on evaluation	30%
Assignment	Embedded code analysis and debugging	20%
Quiz 2	Real-time concepts and interfaces	10%
Mini Project	End-to-end embedded system with basic control logic	30%



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**Student Development Program**

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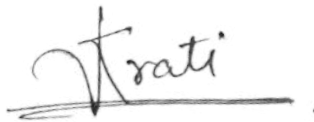
**Mr./Ms.** AMAN GUPTA **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ Future of Robotics: Ethical considerations  
and Societal impacts.” from 27th April-2nd May 2020*



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Ms. Krati Hardya**  
Co-ordinator



**Dr. Shailesh Kumar Singh**  
H.O.D



**Prof. (Dr.) Arpita Gupta**  
Director



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Group of Institutions  
Greater Noida

**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** KARTIK SHARMA **of** ME Dept. (3rd Year)

*has successfully completed six days*

*Student Development Program on “ Future of Robotics: Ethical considerations  
and Societal impacts.” from 27th April-2nd May 2020*



**Ms. Krati Hardya**  
Co-ordinator



**Dr. Shailesh Kumar Singh**  
H.O.D



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Prof. (Dr.) Arpita Gupta**  
Director

## ***Certificate Program on The Future of Robotics — Ethical Considerations & Societal Impacts***

### ☐ **For: 3rd Year Students**

- ☐ **Duration:** 30 Hours
  - ☐ **Schedule:** 27th April – 2nd May 2020
  - ☐ **Organized by:** Department of Mechanical Engineering (ME)
- 

### ☐ **Program Synopsis:**

As robotics becomes deeply woven into our daily lives, this Skill Development Program (SDP) explores not only the technological advancements but also the ethical and societal challenges that arise with their adoption. The course encourages future engineers to think critically about automation, labor displacement, privacy, and AI decision-making frameworks.

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### ☐ **Key Learning Areas:**

- **Robotic Evolution & Trends**  
Understand the shift from industrial automation to intelligent service robotics.
  - **Ethics in Autonomous Machines**  
Moral frameworks for robot behavior, AI alignment, and ethical decision-making.
  - **Impact on Labor & Society**  
Job automation, economic shifts, and the role of human-robot collaboration.
  - **Regulations and Responsible Innovation**  
Laws, global policies, and design principles for safe deployment.
  - **Hands-on Discussion Sessions**  
Real-world case studies, role plays, and group debates.
- 



□ **Evaluation & Assessment:**

<b>Component</b>	<b>Mode</b>	<b>Weightage</b>
Reflection Essay	Individual write-up on ethical dilemmas	25%
Quiz	Multiple-choice based on core concepts	20%
Group Presentation	On robotics applications and impacts	30%
Participation & Discussion	Active involvement in debates and talks	25%
Total		100%



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 16th-21st September 2019

### Certification Programme on Innovations in 5G technology and its transformative impact

#### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AAYUSH KUMAR JHA	11001	CSE	Aayush
2	AYUSH JHA	11003	CSE	AYUSH
3	ROSHAN SINGH	11005	CSE	Roshan
4	MANOJ KUMAR SINGH	11006	CSE	Manoj
5	KUMAR SAURAV	11007	CSE	Saurav
6	ABHIJEET KUMAR PANDEY	11008	CSE	Abhijeet
7	ADITI PUNDIR	11010	CSE	Aditi Pundir
8	AKANKSHA GARG	11012	CSE	Akanksha
9	AKSHAY RATHORE	11013	CSE	Akshay
10	ALOK RANJAN	11014	CSE	Alok Ranjan
11	AMAN SINGH	11015	CSE	Aman Singh
12	ANAMIKA	11016	CSE	Anamika
13	ANKUR SHARMA	11017	CSE	Ankur
14	ARTI KUMARI	11018	CSE	Arti Kumari
15	ASHISH PANDEY	11019	CSE	Ashish
16	AMAN KUMAR YADAV	11020	CSE	Aman Kumar Yadav
17	BITTU KUMAR DWIVEDI	11021	CSE	Bittu
18	CHARU TARGHOTRA	11022	CSE	Charu Targotra
19	DEEPTI TRIPATHI	11024	CSE	Deepthi
20	DEVENDER SHARMA	11025	CSE	Devender
21	DEVVRAT GUPTA	11026	CSE	Devvrat
22	GUNJIT SIDHER	11027	CSE	Gunjit Sidher
23	JATIN GUPTA	11029	CSE	Jatin
24	KAPIL GARG	11031	CSE	Kapil
25	KARAN HANDA	11032	CSE	Karan
26	KRATIKA GUPTA	11033	CSE	Kratika
27	KRISHNA KANHAIYA	11034	CSE	Krishna



28	MANISH MOHAN	11035	CSE	Manish
29	MANISHA BHANDARI	11037	CSE	Manisha
30	MANISHA JASSAL	11038	CSE	Mani
31	NAVJOT SINGH	11039	CSE	Navjot
32	NIKHIL SINGH	11040	CSE	Nikhil
33	PRACHI GUPTA	11041	CSE	Prachi
34	RAHUL	11044	CSE	Rahul
35	RENUKA KUMARI	11046	CSE	Renuka
36	ROSHAN ROKAYA	11048	CSE	Roshan
37	RUCHI YADAV	11049	CSE	Ruchi
38	SAGAR BAJPAYEE	11050	CSE	Sagar
39	SHIVANI RANA	11053	CSE	Shivani
40	SHUBHAM KUMAR SINGH	11055	CSE	Shubham
41	SIMRAN GHAI	11056	CSE	Simran
42	SONALI KUMARI	11057	CSE	Sonali
43	SWAPNIL SHUKLA	11059	CSE	Swapnil
44	VAISHALI SHARMA	11062	CSE	Vaishali
45	VINAY	11064	CSE	Vinay
46	VINAY RAJPUT	11065	CSE	V. Rajput
47	VIVEK KUMAR OJHA	11067	CSE	Vivek
48	ABHISHEK SINGH	11070	CSE	Abhishek
49	AJU S KUMAR	11073	CSE	Aju Singh
50	ANKUR KUMAR GAUR	11078	CSE	Ankur
51	SONU KUMAR	11082	CSE	Sonu Kumar
52	BHARTI	11086	CSE	Bharti
53	CHARU NAITHANI	11088	CSE	Charu
54	CHETAN SHARMA	11089	CSE	Chetan
55	ROSHAN JOSHI	11096	CSE	Roshan
56	GURMEET SINGH	11098	CSE	Gurmeet Singh

**Co-ordinator**  
**Dr. Aadarsh Malviya**

**Head of the Department**  
**Mr. Bipin Pandey**



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Student Development Program**


**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** ANAMIKA **of** CSE Dept. (Final Year)

*has successfully Participated in Six days SDP on “Innovations in  
5G technology and its transformative impact ”  
on 16th-21st September 2019.*

  
**Dr. Bipin Pandey**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
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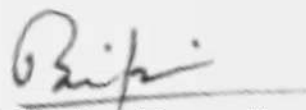
**Student Development Program**

**CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** AVUSH JHA **of** CSE Dept. (Final Year)

*has successfully Participated in Six days SDP on “ Innovations in  
5G technology and its transformative impact ”  
on 16th-21st September 2019.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
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## Certification Programme

### *Innovations in 5G Technology and Its Transformative Impact*

#### Target Group: 4th Year Students

**Date:** 16th – 21st September 2019

**Duration:** 36 Hours

**Department:** Computer Science & Engineering (CSE)

#### Program Overview:

This Certification Programme focuses on cutting-edge innovations driving the 5G revolution and explores how this next-generation communication technology is transforming industries, services, and user experiences globally. Participants will gain a strong technical understanding along with real-world insights into 5G deployment and its cross-sectoral impacts.

#### Learning Modules:

1. **Introduction to 5G Technology**
  - Evolution from 1G to 5G
  - Architecture and key enablers (mmWave, Massive MIMO, Network Slicing)
2. **Core Innovations and Infrastructure**
  - 5G NR (New Radio) Protocol Stack
  - SDN and NFV in 5G networks
  - Low-latency & ultra-reliable communications
3. **Transformative Use Cases**
  - 5G in healthcare, smart cities, automotive, and IoT
  - Industry 4.0 and automation through 5G
4. **Security & Policy Frameworks**
  - Cybersecurity challenges in 5G
  - Regulatory and spectrum policies
5. **Lab Demos & Case Studies**
  - Simulation tools for 5G architecture
  - Discussion on global deployments



Director

## Assessment & Evaluation Criteria

Component	Method	Weightage
Concept Quiz	Multiple-choice quiz on 5G fundamentals	15%
Assignment	Written analysis of a 5G-enabled industry use case	20%
Hands-on Lab	Simulation/analysis using 5G tools	25%
Group Discussion	Topic: “Is India ready for 5G?”	20%
Final Presentation	Team-based research presentation	20%



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### Course Module and Evaluation Matrix for the Certificate Program on PLC and SCADA Basics:

#### Course Modules

Module No.	Module Title	Topics Covered	Duration (Hours)
Module 1	Introduction to PLC	<ul style="list-style-type: none"> <li>- Overview of PLCs</li> <li>- Basic components of a PLC (CPU, I/O modules, power supply, etc.)</li> <li>- Types of PLCs</li> <li>- PLC working principle</li> <li>- Applications of PLC in industries</li> </ul>	5
Module 2	PLC Programming Basics	<ul style="list-style-type: none"> <li>- Ladder Logic Programming (LLD)</li> <li>- Instruction Set (Input, Output, Timers, Counters)</li> <li>- Basic programming examples</li> <li>- Debugging and troubleshooting PLC programs</li> </ul>	7
Module 3	SCADA System Overview	<ul style="list-style-type: none"> <li>- Introduction to SCADA</li> <li>- Components of SCADA systems (PLC, RTU, HMI, SCADA software)</li> <li>- SCADA system architecture</li> <li>- SCADA communication protocols (MODBUS, OPC)</li> </ul>	5
Module 4	PLC and SCADA Integration	<ul style="list-style-type: none"> <li>- Integration of PLC with SCADA systems</li> <li>- Data acquisition and control</li> <li>- Human-Machine Interface (HMI) design basics</li> <li>- Alarming and event management</li> </ul>	6
Module 5	Advanced PLC Features and Applications	<ul style="list-style-type: none"> <li>- Advanced programming techniques (Shift Registers, Sequencers)</li> <li>- Case studies of PLC-based applications</li> <li>- SCADA systems in real-time monitoring and control</li> </ul>	5
Module 6	Project and Hands-on Exercises	<ul style="list-style-type: none"> <li>- Practical sessions: Creating a basic PLC program</li> <li>- Simulating SCADA operations</li> <li>- Case study of a complete PLC-SCADA setup</li> </ul>	2



## Evaluation Matrix

Evaluation Method	Weightage	Details
Quizzes	30%	Two quizzes (mid-term and end-term) to assess knowledge of PLC programming, SCADA systems, and integration.
Assignments	20%	Assignments on PLC ladder logic programming and SCADA system architecture.
Hands-on Project	30%	A practical project based on PLC programming and SCADA integration, evaluated on both functionality and design.
Class Participation	10%	Active participation in discussions, hands-on exercises, and project work.
Final Exam	10%	A final exam covering all the topics in the course, focusing on both theoretical concepts and practical applications of PLC and SCADA systems.



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 Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 02nd-7th December 2019

Certificate Program on Cloud Application Development (AWS/Azure/GCP)				
Attendance Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AMIT KUMAR RAWAT	11002	CSE	Amit
2	MAYANK SHEKHAR	11004	CSE	Mayank
3	AJAY KUMAR	11011	CSE	Ajay
4	JAI PRAKASH KASHYAP	11028	CSE	Jai Prakash
5	JAYDEEP N PATEL	11030	CSE	Jaydeep
6	PRATIBHA PRAKASH	11042	CSE	Pratibha
7	PRIYA MALIK	11043	CSE	Priya
8	RAHUL KUMAR	11045	CSE	Rahul
9	RIKANSHI JOSHI	11047	CSE	Rikanshi
10	SANTOSH KUMAR	11051	CSE	Santosh
11	SHIVAM PANDEY	11052	CSE	Shivam
12	SHUBHAM KUMAR	11054	CSE	Shubham
13	SUSHIL TIWARI	11058	CSE	Sushil
14	UDAY KUMAR	11060	CSE	Uday
15	UJJVAL KUMAR	11061	CSE	Ujjwal
16	VIKAS RAI	11063	CSE	Rai
17	VIPIN SHUKLA	11066	CSE	Vipin
18	YESVENDERA KUMAR DWIVEDI	11068	CSE	Yesvendra
19	BHARTI KUSHWAHA	11069	CSE	Bharti

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20	AMANPREET SINGH	11071	CSE	Amankus
21	AMAN KUMAR JHA	11074	CSE	Amank
22	ABHISHEK BHATI	11077	CSE	Abhishek Bhati
23	ANSHUL KUSHWAHA	11080	CSE	Anshul
24	ANSHUL RANA	11081	CSE	Anshul
25	ASHMEET SINGH	11083	CSE	Ashmeet
26	ASHUTOSH KUMAR SINGH	11084	CSE	Ashutosh
27	VIJAY KUMAR VERMA	11087	CSE	Vijay
28	AKASH KUMAR	11571	CSIT	Akash
29	GAGAN TYAGI	11619	CSIT	Gagan
30	JASKARAN SINGH	11621	CSIT	Jaskaran
31	RUPINDER KAUR	11623	CSIT	Rupinder
32	YASH KAUSHIK	11626	CSIT	Yash
33	SUSHIL GUPTA	11628	CSIT	Sushil
34	AAKASHDEEP CHAUDHARY	11573	CSIT	Aakash
35	ADARSH K NAIR	11575	CSIT	Adarsh
36	AJAY KUMAR SINGH	11576	CSIT	Ajay
37	AKASH ATTRASH	11578	CSIT	Akash
38	AKASH SHARMA	11579	CSIT	Akash
39	ANUGRAH DANGWAL	11583	CSIT	Anugrah
40	ASHISH SRIVASTAVA	11585	CSIT	Ashish
41	ASHUTOSH TRIPATHI	11587	CSIT	Ashutosh
42	AVINASH KUMAR	11590	CSIT	Avinash
43	AYUSH CHAUHAN	11591	CSIT	Ayush
44	DIG VIJAY	11595	CSIT	Digvijay
45	GOVIND KUMAR MALLIK	11598	CSIT	Govind
46	HARISH SINGH MEHTA	11599	CSIT	Harish



47	MOHIT KUMAR	11610	CSIT	Mohit
48	MUKESH KUMAR THAKUR	11612	CSIT	Mukesh
49	NAVEEN PUROHIT	11615	CSIT	Naveen
50	NISHANT KUMAR JHA	11617	CSIT	Nishant
51	AISHWARYA	11133	IT	Aishwarya
52	KM KOMAL TRIPATHI	11135	IT	Komal
53	NEHA CHAWLA	11137	IT	Neha
54	SANTOSH KUMAR BARMAN	11139	IT	Santosh
55	AMAN KUMAR	11141	IT	Aman
56	JAYA KANDPAL	11142	IT	Jaya
57	SAADAT NABI	11144	IT	Saadat
58	VANSH KUMAR SINGH	11146	IT	Vansh
59	KIRANDEEP KAUR	11148	IT	Kiran
60	PIYUSH CHOUDHARY	11149	IT	Piyush
61	SHIVAM YADAV	11150	IT	Shivam
62	AVINASH RANJAN	11152	IT	Avinash
63	SWARAJ SINGH	11154	IT	Swaraj
64	TABREZ MINHAJ	11155	IT	Tabrez
65	VEPENDER SINGH BISHT	11157	IT	Vepender
66	VIKASH KUMAR	11158	IT	Vikas
67	VISHAL KUMAR PATEL	11161	IT	Vishal

**Co-ordinator**  
**Mr. Shantanu Pant**

**Head of the Department**  
**Mr. Bipin Pandey**



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**Student Development Program**

**CERTIFICATE OF COMPLETION**


*This is to certify that*

**Mr./Ms. MAYANK SHEKHAR of CSE Dept. (Final Year)**

***has successfully completed Six days SDP on “ Cloud  
Application Development (AWS/Azure/GCP) ”  
on 02nd-7th December 2019.***

  
**Dr. Bipin Pandey**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**Student Development Program**

**CERTIFICATE OF COMPLETION**


*This is to certify that*

**Mr./Ms. SHIVAM PANDEY of CSE Dept. (Final Year)**

***has successfully completed Six days SDP on “ Cloud  
Application Development (AWS/Azure/GCP) ”  
on 02nd-7th December 2019.***

  
**Dr. Bipin Pandey**  
Co-ordinator

  
**Prof. (Dr.) Arpita Gupta**  
Director

  
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

### Certificate Program on Cloud Application Development (AWS/Azure/GCP)

#### Course Modules

Module No.	Module Title	Topics Covered	Duration (Hours)
Module 1	Introduction to Cloud Computing	<ul style="list-style-type: none"> <li>- Cloud computing concepts and models (IaaS, PaaS, SaaS)</li> <li>- Overview of AWS, Azure, and GCP</li> <li>- Cloud deployment models (Public, Private, Hybrid)</li> <li>- Cloud security fundamentals</li> </ul>	5
Module 2	Cloud Platform Overview: AWS	<ul style="list-style-type: none"> <li>- AWS services overview (EC2, S3, Lambda, RDS, etc.)</li> <li>- AWS infrastructure and architecture</li> <li>- Creating and managing AWS resources</li> <li>- Introduction to AWS SDK and CLI</li> </ul>	7
Module 3	Cloud Platform Overview: Azure	<ul style="list-style-type: none"> <li>- Azure services overview (VMs, Blob Storage, Azure Functions, etc.)</li> <li>- Azure portal and resource management</li> <li>- Introduction to Azure SDK and CLI</li> </ul>	7
Module 4	Cloud Platform Overview: GCP	<ul style="list-style-type: none"> <li>- GCP services overview (Compute Engine, Cloud Storage, BigQuery, etc.)</li> <li>- Managing GCP resources</li> <li>- Introduction to GCP SDK and CLI</li> </ul>	6
Module 5	Developing Applications for the Cloud	<ul style="list-style-type: none"> <li>- Designing cloud-native applications</li> <li>- Serverless computing and microservices architecture</li> <li>- Cloud application development frameworks</li> <li>- Integrating APIs in cloud apps</li> </ul>	6
Module 6	Cloud Application Deployment and Management	<ul style="list-style-type: none"> <li>- Continuous Integration/Continuous Deployment (CI/CD) in the cloud</li> <li>- Application monitoring and logging in AWS, Azure, and GCP</li> <li>- Scaling and performance optimization</li> </ul>	5
Module 7	Cloud Application Security	<ul style="list-style-type: none"> <li>- Cloud security principles</li> <li>- Identity and Access Management (IAM)</li> <li>- Encryption in cloud environments</li> <li>- Security best practices for cloud applications</li> </ul>	3
Module 8	Project and Hands-on Exercises	<ul style="list-style-type: none"> <li>- Hands-on sessions on building and deploying a cloud-based application using AWS, Azure, or GCP</li> <li>- Final project development and presentation</li> </ul>	3



Director

Dronacharya Group of Institutions  
 27, KP-III, Greater Noida-201306

## Evaluation Matrix

<b>Evaluation Method</b>	<b>Weightage</b>	<b>Details</b>
<b>Quizzes</b>	20%	Three quizzes (after Module 2, Module 4, and Module 6) to assess theoretical knowledge of cloud platforms and application development techniques.
<b>Assignments</b>	25%	Assignments related to platform-specific tasks (e.g., creating resources in AWS, deploying an application on Azure, etc.).
<b>Hands-on Project</b>	30%	A practical project focused on developing and deploying a cloud application on AWS, Azure, or GCP. The project will be assessed based on functionality and design.
<b>Class Participation</b>	10%	Active participation in lectures, hands-on exercises, and group discussions.
<b>Final Exam</b>	15%	A final exam covering all cloud platforms (AWS, Azure, GCP) and cloud application development, with a focus on practical knowledge and problem-solving.



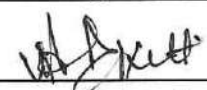
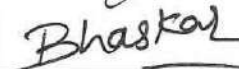
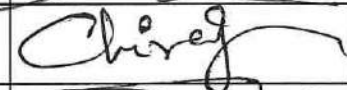
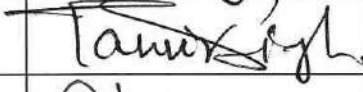
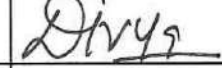
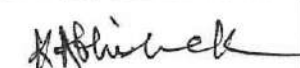
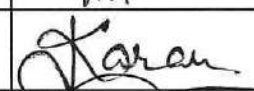
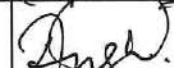

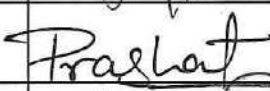
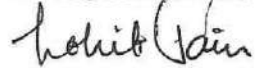
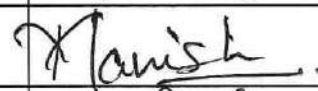

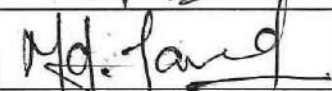
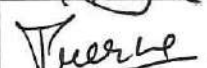
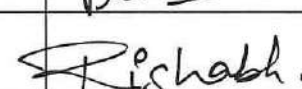
Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308  
Approved by: All India Council for Technical Education (AICTE), New Delhi  
Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 25th-30th November 2019

Certificate Program on Energy Storage Systems				
Attendance Sheet				
S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AKANKSHA DIXIT	11263	ME	
2	BHASKAR SATI	11267	ME	
3	CHIRAG CHAUDHARY	11270	ME	
4	TANVIR SINGH KAKKAR	11275	ME	
5	DIVYA PRABHAKAR	11280	ME	
6	K ABHISHEK	11283	ME	
7	KARAN TARIYAL	11285	ME	
8	ANSH SUNEJA	11289	ME	
9	NITISH ARORA	11292	ME	
10	PRASHANT SHUKLA	11293	ME	
11	LOHIT JAIN	11296	ME	
12	MANISH KUMAR BHATI	11298	ME	
13	MD FARID ALAM	11300	ME	
14	MD JAVED	11301	ME	
15	PRERNA SHARMA	11303	ME	
16	RISHABH MADAN	11305	ME	

**Co-ordinator**  
**Mr. Vishnu Kuntal**

  
Director

**Head of the Department**  
**Mr. Shailesh Kumar**

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



# **DRONACHARYA**

Group of Institutions  
Greater Noida

## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** BHASKAR SATI **of** ME Dept. (Final Year)

*has successfully completed Six days SDP on*

*“Energy Storage Systems”*

*on 25th-30th November 2019.*



**Dr. Shailesh Kumar Singh**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director



# **DRONACHARYA**

Group of Institutions  
Greater Noida

## **Student Development Program**

### **CERTIFICATE OF COMPLETION**

*This is to certify that*

**Mr./Ms.** TANVIR SINGH KAKKAR **of** ME Dept. (Final Year)

*has successfully completed Six days SDP on*

*“Energy Storage Systems”*

*on 25th-30th November 2019.*



**Dr. Shailesh Kumar Singh**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director

## Course Modules for Energy Storage Systems

Module	Topic	Key Concepts	Duration
Module 1	Introduction to Energy Storage	Overview of energy storage systems (ESS), types of ESS (batteries, supercapacitors, flywheels), applications in renewable energy, grid stabilization	5 Hours
Module 2	Battery Technologies	Types of batteries (Li-ion, Lead Acid, Sodium-ion, etc.), working principles, advantages, and limitations	7 Hours
Module 3	Energy Storage System Design	Designing ESS for different applications (standalone, grid-connected), system sizing, and energy management strategies	7 Hours
Module 4	Battery Management Systems (BMS)	Role of BMS in ESS, battery charging/discharging control, state-of-charge (SOC) and state-of-health (SOH) management	5 Hours
Module 5	Energy Storage in Renewable Systems	Integration of ESS with solar and wind systems, hybrid systems, and challenges in energy storage integration	4 Hours
Module 6	Applications and Case Studies	Real-world applications (electric vehicles, grid storage, UPS), case studies, current trends, and future prospects of ESS	2 Hours



## Evaluation Matrix

<b>Evaluation Method</b>	<b>Weightage</b>	<b>Details</b>
<b>Quizzes</b>	25%	Quizzes based on the content of Modules 2, 3, and 4 to assess understanding of battery technologies, ESS design, and BMS.
<b>Assignments</b>	20%	Assignments focused on system design, case studies, and real-world applications.
<b>Hands-on Project</b>	30%	A project where students design and demonstrate a basic ESS or simulate battery management for a given application.
<b>Class Participation</b>	10%	Active participation in lectures, discussions, and practical sessions.
<b>Final Exam</b>	15%	A final exam that covers all aspects of energy storage systems, battery technologies, and their integration with renewable energy systems.



Director

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# DRONACHARYA

## Group of Institutions

B-27, Knowledge Park – III, Greater Noida, Uttar Pradesh - 201308

Approved by: All India Council for Technical Education (AICTE), New Delhi

Affiliated to: Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow

DATE: 21st-26th October 2019

### Certificate Program on Neurosymbolic AI: merging deep learning with symbolic reasoning

#### Attendance Sheet

S.NO	Name of the Students	Roll No.	Dept.	Signature
1	AJAY PRATAP SINGH	11072	CSE	<i>Ajay</i>
2	AMEER HAMZA	11075	CSE	<i>Ameer</i>
3	ANISH CHOUDHARY	11076	CSE	<i>Anish</i>
4	BANDEEP KAUR	11085	CSE	<i>B Kaur</i>
5	MUSKAN KHEMKA	11090	CSE	<i>Muskan</i>
6	UJJWAL KUMAR	11091	CSE	<i>Ujjwal</i>
7	PULKIT ANAND	11092	CSE	<i>P Anand</i>
8	PRADEEP SINGH BISHT	11094	CSE	<i>P Bisht</i>
9	GURLEEN KAUR GAUBHRI	11095	CSE	<i>G Kaur</i>
10	JASPREET SINGH	11101	CSE	<i>Jaspreet</i>
11	SANJAY BHANDARI	11104	CSE	<i>Sanjay</i>
12	NIPUN R NAVADIA	11106	CSE	<i>Nipun</i>
13	AVINASH MISHRA	11107	CSE	<i>Avinash</i>
14	KUMARI USHA	11110	CSE	<i>Usha</i>
15	VIJAY SHANKAR	11111	CSE	<i>V Shankar</i>
16	RISHIKA RAZDAN	11113	CSE	<i>RK</i>
17	SHIVAM JOSHI	11115	CSE	<i>Shivam Joshi</i>
18	AJIT KUMAR	11118	CSE	<i>Ajit Kumar</i>
19	RATI KUMARI JHA	11119	CSE	<i>Rati</i>



20	DEEPAK UMREDKAR	11618	CSIT	Deepak
21	GURSIMRAN KAUR	11620	CSIT	Gursimran
22	SHRIDHAR OJHA	11624	CSIT	Shridhar
23	SHUSHANT KUMAR MISHRA	11625	CSIT	Shk
24	AKASH TRIVEDI	11592	CSIT	Ashvvedi
25	AMIT RATHORE	11572	CSIT	A Rathore
26	GAURAV TIWARI	11627	CSIT	Gaurav
27	AKSHAY KUMAR	11580	CSIT	Akshay
28	ANKUR CHAUDHARY	11582	CSIT	Ankur
29	ASHISH KUMAR SRIVASTAVA	11584	CSIT	Ashish
30	ASHU TALWAR	11586	CSIT	Ashu
31	ASHUTOSH VISHWAKARMA	11588	CSIT	Ashutosh
32	ASHWANI KUMAR RATHORE	11589	CSIT	A Rathore
33	CHIRANJIV KUMAR SINGH	11593	CSIT	Chiranjiv
34	DRON SHARMA	11596	CSIT	Dron
35	GAURAV CHAUHAN	11597	CSIT	G Chauhan

**Co-ordinator**  
**Mr. Hridesh Gupta**

**Head of the Department**  
**Mr. Bipin Pandey**



Director

**Dronacharya Group of Institutions**  
27, KP-III, Greater Noida-201306



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Group of Institutions  
Greater Noida

**Student Development Program**

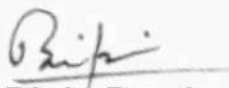
CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** AJIT KUMAR **of** Cse Dept. (Final Year)

*has successfully completed Six days SDP on*

*“Neurosymbolic AI: merging deep learning with symbolic reasoning ”  
on 21st-26th October 2019.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

**DRONACHARYA**  
Group of Institutions  
Greater Noida

**Student Development Program**

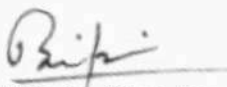
CERTIFICATE OF COMPLETION

*This is to certify that*

**Mr./Ms.** SANJAY BHANDARI **of** Cse Dept. (Final Year)

*has successfully completed Six days SDP on*

*“Neurosymbolic AI: merging deep learning with symbolic reasoning ”  
on 21st-26th October 2019.*



**Dr. Bipin Pandey**  
Co-ordinator



**Prof. (Dr.) Arpita Gupta**  
Director



Director  
Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

## **Certificate Program on Neurosymbolic AI**

**Duration:** 36 Hours

**Target Students:** 4th Year CSE Students

**Dates:** 21st - 26th October 2019

### **Course Modules:**

1. **Introduction to Neurosymbolic AI**
  - **Topics Covered:**
    - Overview of AI paradigms (Deep Learning vs Symbolic Reasoning)
    - Introduction to Neurosymbolic AI
    - Challenges and opportunities in merging the two domains
  - **Duration:** 6 Hours
2. **Deep Learning Fundamentals**
  - **Topics Covered:**
    - Neural Networks, CNNs, RNNs, and their applications
    - Training algorithms and optimization methods
    - Deep Learning in AI problem-solving
  - **Duration:** 7 Hours
3. **Symbolic Reasoning and Logic**
  - **Topics Covered:**
    - Symbolic AI and Logic Programming
    - Rule-based systems and knowledge representation
    - Inference mechanisms in symbolic reasoning
  - **Duration:** 7 Hours
4. **Merging Deep Learning with Symbolic AI**
  - **Topics Covered:**
    - Hybrid AI models
    - Integration of deep learning with symbolic reasoning
    - Architectures and case studies
  - **Duration:** 8 Hours
5. **Applications of Neurosymbolic AI**
  - **Topics Covered:**
    - Use cases in NLP, robotics, decision-making systems
    - Real-world applications of hybrid AI
  - **Duration:** 5 Hours
6. **Advanced Topics and Future Trends**
  - **Topics Covered:**
    - Challenges in scaling neurosymbolic systems
    - Explainable AI and its role in neurosymbolic integration
    - Future research directions in the field
  - **Duration:** 3 Hours



Director

Dronacharya Group of Institutions  
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## Evaluation Matrix:

- **Quizzes: 20%**

(Quizzes at the end of Module 2, Module 3, and Module 5 to assess foundational knowledge of deep learning, symbolic reasoning, and hybrid AI integration.)

- **Assignments: 25%**

(Assignments based on case studies, practical tasks related to neural networks, and symbolic reasoning problems.)

- **Hands-on Project: 30%**

(Implementation of a neurosymbolic AI system for a real-world problem, with assessment based on functionality and integration of both paradigms.)

- **Class Participation: 10%**

(Active engagement in lectures, discussions, and practical labs.)

- **Final Exam: 15%**

(A comprehensive final exam covering theory and practical aspects of neurosymbolic AI.)



Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306

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Roll No: NPTEL20CS04S1897507

To

ENJOY MAITY  
A130, SANJAY COLONY, BEHIND VAISHNO DEVI  
MANDIR, SECTOR22  
NIT FARIDABAD  
FARIDABAD  
HARYANA - 121005  
PH. NO :8637538073



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**ENJOY MAITY**

for passing the course

**Operating System**

with Score\* **49** %

**Covid-19  
impacted  
January 2020  
semester**

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Jan-Apr 2020  
(12 week course)**

*Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



**\*Continuous online assessment score**

To validate and check scores: <https://nptel.ac.in/noc/>



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Roll No: NPTEL20CS08S1116376

To  
RANJEET SINGH  
MOHALLAGOVIND NAGAR, NOORPUR (BIJNOR)  
NOORPUR  
BIJNOR  
UTTAR PRADESH - 246734  
PH. NO : 9318474480



No. of credits recommended by NPTEL: 3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**RANJEET SINGH**

for passing the course

**Programming in Java**

with Score\* **100 %**

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Jan-Apr 2020  
(12 week course)

Director

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur



Indian Institute of Technology Kharagpur

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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Roll No: NPTEL20CS08S1052126

To  
APOORVA SRIVASTAVA  
EWS E19 RAIL VIHAR, RAPTI NAGAR PHASE 4  
GORAKHPUR  
UTTAR PRADESH-273013  
PH. NO :7860784411



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)




This certificate is awarded to  
**APOORVA SRIVASTAVA**  
for passing the course

**Programming in Java**

with Score\* **98** %



  
**A. Goswami**  
Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Indian Institute of Technology Kharagpur



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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Roll No: NPTEL20CS08S1618303

To

HARPREET SINGH  
MOHALLA MOHAMMAD NAGAR, NOORPUR, BIJNOR  
NOORPUR  
BIJNOR  
UTTAR PRADESH - 246734  
PH. NO :8630332720



No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**HARPREET SINGH**

for passing the course

**Programming in Java**

with Score\* **100 %**

**Covid-19  
impacted  
January 2020  
semester**

**A. Goswami**

Jan-Apr 2020  
(12 week course)

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Director

Dronacharya Group of Institutions  
27, KP-III, Greater Noida-201306



Indian Institute of Technology Kharagpur



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>