3.2.2 Number of workshops/seminars/conference conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years (5)

Year	Name of the workshop/ seminar/ conference	Number of Participants	Duration (in days)	Link to the Activity report on the website
	Academic Year 2016-17			-
2016	National Program on Technology Enhanced Learning (NPTEL) awareness workshop	2	1	https://gnindia.dronacharya.info/events/NPTEL_2016.aspx?Month=Jul&Year=2016
2016	Entrepreneurship Educator Program	1	3	https://gnindia.dronacharya.info/events/Entrepreneurship_Educator_Program1_2016.aspx?Month=Jul&Year=2016
2016	IPR and Commercialisation of Technology for Start - Ups and Incubatees	7	1	https://gnindia.dronacharya.info/events/IPR1_2016.aspx?Month=Jul&Year=2016
2016	National Conference on "Energy Security for India- Creating a Biofuel Economy"	4	1	https://gnindia.dronacharya.info/events/Energy_Security_2016.aspx?Month=Aug&Year=2016
2016	Workshop on Android and iOS	90	1	https://gnindia.dronacharya.info/events/Event_Sep_2016.aspx?Month=Sep&Year=2016
2016	Conference on "Leveraging Technology in Education"	2	1	https://gnindia.dronacharya.info/events/Leveraging_Technology_2016.aspx?Month=Sep&Year=2016
2016	Workshop on "CMOS, Mixed Signal and Radio Frequency VLSI Design"	1	5	https://gnindia.dronacharya.info/events/CMOS_2016.aspx?Month=Sep&Year=2016
2016	Workshop on Research Methodologies and Modelling Techniques	54	1	https://gnindia.dronacharya.info/events/Research_Methodologies_2016.aspx?Month=Sep&Year=2016

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2016	QEEE Session on Microprocessors and Microcontrollers - Memory Mapping and Peripheral Interfacing	15	3	https://gnindia.dronacharya.info/events/Microprocessors_2016.aspx?Month=Sep&Year=2016
2016	QEEE Session on 'Combinational and Sequential Circuit Design - Digital IC Design'	20	3	https://gnindia.dronacharya.info/events/Combinational_2016.aspx?Month=Sep&Year=2016
2016	International Workshop on "Amateur Radio Communication & Computing in Educational Environment"	7	2	https://gnindia.dronacharya.info/events/Amateur_Radio_2016.aspx?Month=Sep&Year=2016
2016	QEEE Session on "GEAR: Kinematics and Dynamics of Machinery / Theory of Machines"	10	3	https://gnindia.dronacharya.info/events/GEAR_2016.aspx?Month=Sep&Year=2016
2016	Workshop On Cloud Computing on Amazon Web Services	53	1	https://gnindia.dronacharya.info/events/Cloud_Computing_2016.aspx?Month=Sep&Year=2016
2016	QEEE Session on Classification of Signals and Systems - Introduction	14	3	https://gnindia.dronacharya.info/events/Signals_2016.aspx?Month=Sep&Year=2016

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2016	Workshop on C Language	56	1	https://gnindia.dronacharya.info/events/Event_Oct_2016.aspx?Month=Oct&Year=2016
2016	Virtual Lab Workshop	242	1	https://gnindia.dronacharya.info/events/Virtual_Lab_2016.aspx?Month=Oct&Year=2016
2016	Seminar on Cyber Security, Ethical Hacking and Bug Bounty	10	1	https://gnindia.dronacharya.info/events/Cyber_Security_2016.aspx?Month=Oct&Year=2016
2016	workshop on E-Leader	1	2	https://gnindia.dronacharya.info/events/E-LEADER_2016.aspx?Month=Oct&Year=2016
2016	workshop on Vehicle Design and Dynamics	36	2	https://gnindia.dronacharya.info/events/Vehicle_Design_2016.aspx?Month=Nov&Year=2016
2016	Workshop on "Survey Camp Using Total Station	30	3	https://gnindia.dronacharya.info/events/Survey_Camp_2016.aspx?Month=Nov&Year=2016
2017	Webinar on Geo - Portal Application for e-Governance	15	1	https://gnindia.dronacharya.info/events/Webinar_Geo_Portal_2017.aspx?Month=Jan&Year=2017
2017	Workshop on Rapid Prototyping and 3D Printing	24	2	https://gnindia.dronacharya.info/events/RapidPrototyping_2017.aspx?Month=Jan&Year=2017
2017	Visit to Intellect 2017 & DISTRIBUELEC India Expo Centre, Greater Noida	14	1	https://gnindia.dronacharya.info/events/VisitIntellect_2017.aspx?Month=Jan&Year=2017
2017	International Conference on "Evolving Trends in Intelligent Management of the Future Grid"	5	2	https://gnindia.dronacharya.info/events/INTELECT2017.aspx?Month=Jan&Year=2017
2017	Awareness Workshop for Smart India Hackathon	5	1	https://gnindia.dronacharya.info/events/SmartIndia_2017.aspx?Month=Jan&Year=2017

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2017	Workshop on Open Modelica - Simulation & Modelling	1	2	https://gnindia.dronacharya.info/events/OpenModelica_2017.aspx?Month=Jan&Year=2017
2017	workshop cum Training on*Construction Project Management (CPM) and Building Information Modelling (BIM)*	19	4	https://gnindia.dronacharya.info/events/events-Feb-2017.aspx?Month=Feb&Year=2017
2017	Technical Seminar on Multibody & Hydraulic Simulation with Simscape	2	1	https://gnindia.dronacharya.info/events/HydraulicSimulation_2017.aspx?Month=Feb&Year=2017
2017	workshop on Industrial Design: Process and Importance	35	1	https://gnindia.dronacharya.info/events/workshop-2017.aspx?Month=Feb&Year=2017
2017	CISCO - Workshop On Basic Concept of Computer Network Design	50	2	https://gnindia.dronacharya.info/events/CISCO_Workshop_2017.aspx?Month=Mar&Year=2017
2017	workshop on Basics of Foundry Practice	22	1	https://gnindia.dronacharya.info/events/Foundry_Practice_2017.aspx?Month=Mar&Year=2017
2017	workshop on Integrated Automation Technologies (Pneumatics)	30	3	https://gnindia.dronacharya.info/events/PNEUMATIC_2017.aspx?Month=Mar&Year=2017
2017	Seminar on Evolving Integrated Geospatial Policy and Strategy for India	2	1	https://gnindia.dronacharya.info/events/seminar-agi.aspx?Month=Apr&Year=2017
2017	workshop on Design of Hydraulic Structures	33	1	https://gnindia.dronacharya.info/events/Design_Hydraulic_2017.aspx?Month=Apr&Year=2017
2017	Workshop On E-Myths	138	2	https://gnindia.dronacharya.info/events/Workshop_E-Myths_2017.aspx?Month=Apr&Year=2017
2017	Seminar on Ports & Industrial Corridor	17	1	https://gnindia.dronacharya.info/events/Seminar_Ports_2017.aspx?Month=Apr&Year=2017
2017	Workshop on Introduction to Signal Processing	35	1	https://gnindia.dronacharya.info/events/Signal_Processing_2017.aspx?Month=Apr&Year=2017

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	Academic Year 2017-18			
2017	Workshop on Emerging Technologies in Electronics and Communication	1	1	https://gnindia.dronacharya.info/events/Workshop_Emerging_Technologies_2017.aspx?Month=May&Year=2017
2017	National Mission on Education through ICT (NMEICT)	29	6	https://gnindia.dronacharya.info/events/STTP_2017.aspx?Month=Jul&Year=2017
2017	Seminar on "Overview of Structural Engineering"	47	1	https://gnindia.dronacharya.info/events/SeminarStructuralEngineering.aspx?Month=Aug&Year=2017
2017	A Seminar on 'MAKE' projects for Indian Army	2	1	https://gnindia.dronacharya.info/events/MAKEProjects_2017.aspx?Month=Aug&Year=2017
2017	Round Table Conference on 'Green Building - A Business Opportunity'	10	1	https://gnindia.dronacharya.info/events/GreenBuilding_2017.aspx?Month=Aug&Year=2017
2017	Motivational Seminar on Topic “Laying the Foundation for Successful Career”	88	1	https://gnindia.dronacharya.info/events/Motivational1Seminar_2017.aspx?Month=Sep&Year=2017
2017	North East Infrastructure Conclave 2017	6	1	https://gnindia.dronacharya.info/events/InfrastructureConclave_2017.aspx?Month=Sep&Year=2017
2017	A one day workshop on "Android Application Development"	40	1	https://gnindia.dronacharya.info/events/AndroidApplication1_2017.aspx?Month=Sep&Year=2017
2017	Workshop on Solidworks and ANSYS	56	1	https://gnindia.dronacharya.info/events/Workshop_Solidworks_2017.aspx?Month=Sep&Year=2017
2017	Workshop on Virtual Lab	88	1	https://gnindia.dronacharya.info/events/WorkshopVirtual_2017.aspx?Month=Sep&Year=2017
2017	Motivational Seminar- “Laying the Foundation for Successful Career”	325	1	https://gnindia.dronacharya.info/events/MotivationalSeminar_2017.aspx?Month=Sep&Year=2017
2017	Workshop on “Introduction to Cryptography"	120	1	https://gnindia.dronacharya.info/events/Cryptography_2017.aspx?Month=Sep&Year=2017

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2017	Seminar on "Financial Literacy and Investor Awareness Mission"	40	1	https://gnindia.dronacharya.info/events/FinancialLiteracy.aspx?Month=Oct&Year=2017
2017	Seminar on “Digital India Initiatives & Cyber Security Challenges	50	1	https://gnindia.dronacharya.info/events/DigitalIndiaInitiativesCyberSecurity.aspx?Month=Oct&Year=2017
2017	International conference on “PPP Model for Waste to Worth”	2	1	https://gnindia.dronacharya.info/events/InternatipnalConferencePPPmodal.aspx?Month=Nov&Year=2017
2017	Workshop on Universal Human Values and Professional Ethics	1	8	https://gnindia.dronacharya.info/events/FDPUniversalHumanValues.aspx?Month=Nov&Year=2017
2017	Motivational Talk on “Science, Technology & Spirituality”	150	1	https://gnindia.dronacharya.info/events/MotivationalTalk2017.aspx?Month=Nov&Year=2017
2017	Workshop on “CNC Programming, Simulation and Operations on Turning Centre”	75	2	https://gnindia.dronacharya.info/events/WorkshopCNCProgramming.aspx?Month=Nov&Year=2017
2017	WORKSHOP ON NC GUIDE SOFTWARE (CNC SIMULATOR)”	77	1	https://gnindia.dronacharya.info/events/WorkshopNCGuideSogtware.aspx?Month=Nov&Year=2017
2018	Seminar on "MATLAB and Simulink for Predictive Analytics, Signal Processing & Controls Applications"	1	1	https://gnindia.dronacharya.info/events/SeminarMATLAB_2018.aspx?Month=Feb&Year=2018

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2018	Faculty Skill Development Workshop on DRUPAL	30	1	https://gnindia.dronacharya.info/events/FacultySkillDevelopmentWorkshop.aspx?Month=Feb&Year=2018
2018	Workshop on Microcontroller Design (MSP430)	1	3	https://gnindia.dronacharya.info/events/Workshop_Microcontroller_Design2018.aspx?Month=Feb&Year=2018
2018	Two Day's Workshop on Introduction to Arduino	42	2	https://gnindia.dronacharya.info/events/WorkshopIntroductionArduino.aspx?Month=Mar&Year=2018
2018	Workshop on Python and its Applications with IoT	110	2	https://gnindia.dronacharya.info/events/Python2018.aspx?Month=Mar&Year=2018
2018	A Two Day Workshop on "Basics of Foundry Practice"	33	2	https://gnindia.dronacharya.info/events/FoundryPractice_2018.aspx?Month=Mar&Year=2018
2018	CII Annual Session 2018 “Building A better India Together	13	1	https://gnindia.dronacharya.info/events/CIIAnnualSession2018.aspx?Month=Apr&Year=2018

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Academic Year 2018-19

2018	One week Summer Workshop on AUTOCAD	1	6	https://gnindia.dronacharya.info/events/OneWeekSummerWorkshop.aspx?Month=Jul&Year=2018
2018	Summer Workshop on VHDL Programming	1	2	https://gnindia.dronacharya.info/events/VHDL_Programming.aspx?Month=Jul&Year=2018
2018	Summer Workshop on Introduction to Proteus Design Tool	1	2	https://gnindia.dronacharya.info/events/SumerWorkshop2018.aspx?Month=Jul&Year=2018
2018	Two Days Workshop on “React Native”	150	2	https://gnindia.dronacharya.info/events/WorkshopReactNative.aspx?Month=Sep&Year=2018
2018	Two days' workshop on Solar PV System Engineering	225	2	https://gnindia.dronacharya.info/events/WorkshopSolarPVSystem.aspx?Month=Sep&Year=2018
2018	One Day Workshop on Web Development	65	1	https://gnindia.dronacharya.info/events/OneDayWorkshopDevelopment2018.aspx?Month=Sep&Year=2018
2018	Workshop on Cognitive Skills, Design Thinking and Critical Thinking	100	1	https://gnindia.dronacharya.info/events/Workshop_CognitiveSkills_2018.aspx?Month=Nov&Year=2018
2018	FACILITATION WORKSHOP ON DST-NIMAT PROJECT	1	1	https://gnindia.dronacharya.info/events/DST_NIMAT.aspx?Month=Nov&Year=2018

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2018	A one day workshop on Business Dining Etiquettes	10	1	https://gnindia.dronacharya.info/events/WorkshopBusiness-2018.aspx?Month=Nov&Year=2018
2018	Workshop on Intellectual Property Rights (IPR)	20	1	https://gnindia.dronacharya.info/events/IPR_2018.aspx?Month=Dec&Year=2018
2019	One Day Main Workshop On Moodle Learning	41	1	https://gnindia.dronacharya.info/events/Moodle_Learning_Management_System_2019.aspx?Month=Mar&Year=2019
2019	Two-Days e-Yantra Workshop on Introduction to Robotics	3	2	https://gnindia.dronacharya.info/events/writeup_2019.aspx?Month=Apr&Year=2019
2019	One Day Workshop on Scilab	39	1	https://gnindia.dronacharya.info/events/Scilab_09052019.aspx?Month=May&Year=2019

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Academic Year 2019-20

	Academic Year 2019-20			-
2019	Cisco Networking Academy Workshop on Computer Network	30	1	https://gnindia.dronacharya.info/events/Workshop_on_Computer_Network_2_03102019.aspx?Month=Aug&Year=2019
2019	Coordinators' Workshop on LINUX	1	1	https://gnindia.dronacharya.info/events/Workshop_on_LINUX_23092019.aspx?Month=Aug&Year=2019
2019	Workshop on eSim, first course in the IoT series for teachers	1	1	https://gnindia.dronacharya.info/events/One_Day_Workshop_on_eSim_24092019.aspx?Month=Sep&Year=2019
2019	Orientation-cum-Workshop - Unnat Bharat Abhiyan 2.0	2	1	https://gnindia.dronacharya.info/events/Unnat-Bharat-Abhiyan-17122019.aspx?Month=Dec&Year=2019
2020	Coordinators' Workshop on Arduino	1	1	https://gnindia.dronacharya.info/events/report-Arduino-Workshop.aspx?Month=Jan&Year=2020
2020	Workshop on Combating Fraud Activities using Data Science	1	1	https://gnindia.dronacharya.info/events/CoFAD-DGI-17012020.aspx?Month=Jan&Year=2020
2020	e-Yantra workshop on "Introduction to Robotics"	4	2	https://gnindia.dronacharya.info/events/Faculty-attended-E-yantra-Workshop.aspx?Month=Jan&Year=2020
2020	Workshop on VLSI Technologies	30	1	https://gnindia.dronacharya.info/events/Workshop-on-VLSI-Technology.aspx?Month=Feb&Year=2020
2019	BMW SKILL NEXT Workshop on “Technical Skilling”	1	1	https://sway.office.com/sQvC4XHnQxEMSvqV
2019	Workshop on R	1	1	https://sway.office.com/sQvC4XHnQxEMSvqV

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Academic Year 2020-21

2020	Seminar On Digital Marketing and Efficient Use of Tools in the Marketing	45	1	https://sway.office.com/z7Wn1XfYKczf81d0
2020	Webinar on "Application of Microwave in the Present Era"	15	1	https://gnindia.dronacharya.info/events/Webinar-Application-Of-Micrwaves.aspx?Month=Jul&Year=2020
2020	Webinar on Career Opportunity in Quality & Testing: Get Corporate Ready	75	1	https://gnindia.dronacharya.info/events/Webinar-saroj-AUG-30032021.aspx?Month=Aug&Year=2020
2020	Webinar on Significance of 5G Technology	115	1	https://gnindia.dronacharya.info/events/Webinar-of-Significance.aspx?Month=Sep&Year=2020
2020	Webinar on "Software Testing" under Alumni Talk	35	1	https://gnindia.dronacharya.info/events/Webinar-Report-Software-Technology.aspx?Month=Sep&Year=2020
2020	Webinar on "3D PRINTING & 3D DESIGNING"	15	1	https://gnindia.dronacharya.info/events/Webinar-3D-PRINTING-OCT-30032021.aspx?Month=Oct&Year=2020
2020	Webinar On “VLSI Design: Techniques & Recent Trends”	30	1	https://gnindia.dronacharya.info/events/Webinar-Report-VLSI-30032021.aspx?Month=Dec&Year=2020
2021	Three days Workshop on “Rural Entrepreneurship and Rural Start-Ups”	2	3	https://gnindia.dronacharya.info/events/Workshop-Rural-Entrepreneurship.aspx?Month=Feb&Year=2021

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2021	One-day Pilot Workshop on DSpace	2	1	https://gnindia.dronacharya.info/events/Pilot-Workshop-on-DSpace.aspx?Month=Feb&Year=2021
2021	Webinar on Role of Virtual and Basic Application (VBA) in Oil and Gas Refinery	15	1	https://gnindia.dronacharya.info/events/VBA-WEBINAR-29122021.aspx?Month=May&Year=2021
2021	Workshop on "Drone Assembly"	30	1	https://gnindia.dronacharya.info/events/Drone-Assembly-2021.aspx?Month=Jun&Year=2021
2020	Webinar on " The Importance of EDP Program for General Industrial Readiness"	56	1	https://sway.office.com/ZF1GjCTCLv56XPN2
2021	Design Factory	70	1	https://sway.office.com/lB2QjcdAUBkJIaMA
2021	One Week Workshop on Hardware Programming Using Arduino	31	6	https://sway.office.com/lB2QjcdAUBkJIaMA
2021	One Week Workshop on PHP	2	5	https://sway.office.com/lB2QjcdAUBkJIaMA
2021	Online Webinar on "Introduction To CrowdSource"	45	1	https://sway.office.com/uNJ3V2GSzZzJexqR
2021	Webinar on "Getting Started with Problem Solving"	655	2	https://sway.office.com/uNJ3V2GSzZzJexqR
2021	Webinar on "Entrepreneurship: Finding your growth and opportunities in current trends"	80	1	https://sway.office.com/uNJ3V2GSzZzJexqR

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3.2.2 Number of workshops/seminars/conference conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Name of the event: Seminar On Digital Marketing and Efficient Use of Tools in the Marketing

Date of the event: 14th February 2020

No. of Participant:45

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized a Seminar on Digital Marketing and Efficient use of tools in the Marketing which was conducted by SQUAD Infotech Pvt. Ltd. Under CSI Student Chapter on 14th Feb, 2020.

Link of the Event: https://sway.office.com/z7Wn1XfYKczf81d0

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Name of the event: Webinar on "Application of Microwave in the Present Era"

Date of the event: 24th July 2020

No. of Participant:15

Summary of the event: A webinar on **"Application of Microwave in the Present Era"** was organized by the Department of ECE & EEE, Dronacharya Group of Institutions, Greater Noida on **24th July 2020** to apprise the students of career opportunities in core electronic industry. The webinar was presided by **Prof. (Dr.) Arpita Gupta,** Honorable Director, Dronacharya Group of Institutions, Greater Noida. **Mr. Pranay Bhadauria,** Assistant Professor, ECE & EEE, Dronacharya Group of Institutions, Greater Noida organized the event.

Dr. Vikram Kumar, Assistant Professor, NIT Patna was the keynote speaker in the webinar. **Dr. Vikram Kumar** has wide experience and has done specialization in Antenna and Microwave Engineering from IIT BHU, Varanasi core. He mentioned in his talk that Microwaves are a type of electromagnetic radiation, as are radio waves, ultraviolet radiation, X-rays and gamma rays. Microwaves have a range of applications, including communications, radar and, perhaps best known by most people, cooking. The Webinar is on the topic 'Applications of Microwaves in the Present Era'. Application of Communication, Defence, Atmospheric Data Collection, Waste and Hygiene, Medicine, and some advance research topics. The proposed webinar aims to build knowledge of Microwave Application at present and to motivate young minds for entrepreneurship. Any engineering branch can use this technology for their interdisciplinary research or some innovative product development.

The students appreciated the opportunity to interact with **Dr. Vikram Kumar** who gave industry insight and approaches. In the end **Mr. Pranay Bhadauria** thanked **Dr.Vikram Kumar** for his valuable suggestions to the students.

Link of the Event: https://gnindia.dronacharya.info/events/Webinar-Application-Of-Micrwaves.aspx?Month=Jul&Year=2020

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Name of the event: Webinar on Career Opportunity in Quality & Testing: Get Corporate Ready

Date of the event: 13th August 2020

No. of Participant:75

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized the online Webinar series of Get Corporate Ready on Career Opportunity in Quality & Testing.

The webinar was conducted on **13th August 2020.** The technical expert was **Ms. Saroj, Bharti Infratel Ltd (Airtel)** as Circle Quality Head, having 11 years of experience in different sectors like automobile, electronics manufacturing, NABL testing, defense sector manufacturing and telecom. She was welcomed by **Prof. (Dr.) Arpita Gupta** - **Director DGIGN.** After a short welcome speech, she handed over to the technical expert to took the charge.

She shared her experiences on Software Testing process of verifying a computer system/program to decide whether it meets the specified requirements and produces the desired results. As a result, one can identify the bugs in software product/project.

Software Testing is indispensable to provide a quality product without any bug or issue. It really helped the students to bridge the gap between Academics and Corporates.

The session ended with a vote of thanks.

Link of the Event: https://gnindia.dronacharya.info/events/Webinar-saroj-AUG-30032021.aspx?Month=Aug&Year=2020

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Name of the event: Webinar on Significance of 5G Technology

Date of the event: 29th September 2020

No. of Participant:115

Summary of the event: **Dronacharya Group of Institutions, Greater Noida** organized the online webinar on "**Significance of 5G Technology"** on **29th Spetember 2020**. **Dr. Hajar Binti Ja'afar,** Senior Lecturer, Faculty of Electrical Engineering, Universiti Teknologi MARA (Terengganu), MALAYSIA was the eminent speaker.

Prof. (Dr.) Arpita Gupta - **Director DGIGN** welcomed the guest. After a short welcome speech, she handed over to **Dr. Hajar** to take the charge.

Dr. Hajar started with the discussion on the evolution of wireless networks towards 5G, the next generation of cellular technology, brings exceptional communications capabilities for utilities and opens new opportunities for collaboration with mobile network operators with recent industrial applications.

She also highlighted on the new mobile technology, 5G, challenges the current scenario in communications by overcoming the flaws of currently working 4G. Such new technology offers to smart cities and intelligent transportation systems a new way to become fully integrated by allowing massive simultaneous connections and ubiquity of network, even under high mobility situations or dense populated areas.

The webinar was knowledgeable as students got to know the recent technology.

The session ended with a vote of thanks.

Link of the Event: https://gnindia.dronacharya.info/events/Webinar-of-Significance.aspx?Month=Sep&Year=2020

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Name of the event: Alumni Talk-Webinar on Software Testing

Date of the event: 26th September 2020

No. of Participant:35

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized a Webinar on "**Software Testing"** under Alumni Talk on **26th September, 2020.**

Ms. Shiwangi Pokhriyal, Alumnus of DGI, is presently working as **Software Engineer (Test), Siemens Technologies and Services Pvt. Ltd.**

She was welcomed by **Prof. (Dr.) Arpita Gupta** - **Director DGIGN.** After a short welcome speech, she handed over to our alumnus to take the charge.

She shared her own experience and emerging technologies in the field of Software Testing, Also gave brief idea about the process involved. Basically software testing is the process of testing of bugs in lines of code of a program that can be performed by manual or automation testing. The theory of software testing involves problem definitions of testing such as test team, failure after testing, manual testing, uncertainty principle, participation, and incorrect test case selection. This shows the details of a critical part of software testing, which is how to test the performance of new software and the entire system.

She also motivated and encouraged the students for setting and achieving their goals.

The session ended with a vote of thanks.

Link of the Event: https://gnindia.dronacharya.info/events/Webinar-Report-Software-Technology.aspx?Month=Sep&Year=2020

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Name of the event: Webinar on "3D PRINTING & 3D DESIGNING"

Date of the event: 3rd October 2020

No. of Participant:15

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized the online webinar under the Theme of “Get Corporate Ready”.

The webinar was conducted on **03rd October, 2020.** Technical expert was **Mr. Vipin Sharma from High Clouds.** He was welcomed by **Prof. (Dr.) Arpita Gupta** -**Director DGIGN.** After a short welcome speech, she handed over to the technical expert to take the charge.

High Clouds are STEM Education company established in 2019. They acknowledge the availability of various resources & opportunities, especially related to STEM. But all such resources are uncluttered, scattered & not yet optimized for individuals (science hobbyists), students, schools & institutes. They aim to fix that & provide the most efficient one-stop solution for all your STEM needs no matter where you are in India.

Their every member in their team has been passionate about STEM fields like 3D Printing, Robotics, IoT, Mechatronics, Virtual Reality, and Programming.

They covered all the concepts, practical steps & mechanisms involved in Rapid Prototyping & Additive Manufacturing and have direct tie-ups with international leaders in 3D Designing & Printing domain i.e. they have **tie-ups with Creality, SelfCAD & 3D Doodler**. When it comes to 3D Designing, their team of professionals is directly trained by SelfCAD itself.

Mr. Vipin Sharma aimed to train the student's on the basics of 3D Printing & Designing. He has also given **live demonstrations on SelfCAD software** to teach them how to build a 3D model.

Apart from that, he has **also demonstrated all the necessary steps involved in setting up a 3D Printer to get a 3D model printed**.

It really helped the students to bridge the gap between Academics and Corporates.

The session ended with a vote of thanks.

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Link of the Event: https://gnindia.dronacharya.info/events/Webinar-3D-PRINTING-OCT-30032021.aspx?Month=Oct&Year=2020

Name of the event: Webinar On "VLSI Design: Techniques & Recent Trends"

Date of the event: 26th December 2020

No. of Participant:30

Summary of the event:

IEEE Student Chapter, Dronacharya Group of Institutions, Greater Noida organized a webinar on **VLSI Design: Techniques & Recent Tends** on **26th December 2020. Mr. Utkarsh Mishra**, Technical Lead at STMicroelectronics was the keynote speaker in the webinar. Mr. Probeer Sahw, HOD, ECE & EEE, **Dronacharya Group of Institutions, Greater Noida** organized the event.

The objective of the event was to apprise the students of career opportunities in core electronic.

The webinar was presided by Prof. (Dr.) Arpita Gupta, Director, Dronacharya Group of Institutions, Greater Noida Mr. Mishra mentioned in his talk that there are exciting growth opportunities for engineers who are strong in electronic design fundamentals, have an interest in VLSI design and verification. He then explained about various job roles in the industry and clearly demarcated the skill requirements for each profile. He then discussed about the current state of the VLSI industry in India at length. He finished his talk with some valuable tips to focus on key concepts and subjects essential for the industry. In the end Mr. Sahw thanked Mr. Mishra for his valuable suggestions to the students.

The students appreciated the opportunity to interact with Mr. Mishra who gave industry insight and approaches.

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Link of the Event: https://gnindia.dronacharya.info/events/Webinar-Report-VLSI-30032021.aspx?Month=Dec&Year=2020

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Name of the event: Three days Workshop on "Rural Entrepreneurship and Rural Start-Ups"

Date of the event: 17th - 19th February 2021

No. of Participant:2

Summary of the event: **Department of Rural Development, NITTTR Chandigarh** organized a three days Workshop on **"Rural Entrepreneurship and Rural Start-Ups"** from 17th February 2021 to 19th February 2021. Two faculty members **Ms. Neelam Bhardwaj**, (MBA Department) and Mr. Chandan Choubey (ECE Department) of **Dronacharya Group of Institutions, Greater Noida** attended the workshop.

Unnat Bharat Abhiyan(UBA) is a flagship programme of **MHRD, GoI** with a vision to achieve the target of Unnat Bharat (Developed India) through the growth and development of villages.

Day 1

The inaugural speech was given by **Dr. U. N. Roy, Professor and Head, Department of Rural Development.** Dr. Roy told all technical and higher degree institutions, all other colleges and polytechnics working under central universities, UGC, AICTE, ICAR, ICMR will join hands together to actualize the mission. Each participating institute (PI) has developed a cluster of five villages in its vicinity with various technical interventions as per local requirements.

In second session Dr. U. N. Roy shared his views on Potential of Rural Entrepreneurship and Rural Development. He further discussed the need for rural entrepreneurship in employment generation, to reduce the disparities in rural and urban income, to promote balanced regional development and economic development in rural areas. He also explained the advantages of Rural Industrial Projects and problems of rural entrepreneurship.

In the third session, Professor J. S. Saini discussed job scenario in various sectors in India and possible interventions in MSMEs to strengthen Indian economy. The MSME sector is vital for employment generation, as also for an economic recovery to sustain. Along with the employment incentive, the MSME sector has also been provided collateral free credit.

Day 2

On the second day, the first session was delivered by the **Professor Jagveer Singh Rawat HAU, Hisar.** He expressed his views on Rural Start Up under Dairy Farming in India: Successful Case Studies. The future of the Indian dairy industry depends on better efficiency to meet growing demand. However, it is also important that animal welfare is respected. Dairying has turned into an essential auxiliary wellspring of pay for a huge number of country families and has accepted a paramount part in giving work and salary.

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In the second session **Dr. H. S. Jwanda, Principal ITI, GNDP Ludhiana** discussed Skills Training and Placement of Rural Youth of Punjab under CDTP Scheme and Other Government Schemes. He told in order to impart skill training and accomplish ground level physical delivery of new technologies at the doorsteps of the rural people, each identified Polytechnic shall establish Extension Centres in the nodal villages so that each centre covers at least a cluster of villages in its vicinity. These centres will act as an extension arm of the polytechnic and will provide skill training, repair and maintenance services and common six facilities for group enterprises, information sharing and hiring technical facilities of the Polytechnics under the scheme. NGOs, voluntary organizations, professional experts, village agencies, village panchayats/panchayat samitis, ITI's and Senior Secondary School, Vocational Schools etc. should be involved in the establishment of Extension Centres.

In the third session **Professor Joginder Singh Rohru** discussed Organic Apple Cultivation and its Marketing. He shared his views that the steady increase in consumer demand for organic products during the past decade should be viewed as a promising opportunity for organic producers throughout the world. He added that increases in organic fruit production have been associated with improved pest management methods, the use of disease-resistant cultivars, and organic-focused marketing schemes.

Day 3

On the last day, the first session was delivered by Professor Hardip Singh Sura, Bugana, Hisar. He deeply focused on Farming Techniques and Agri–Inputs Production and Marketing: Experience of an Agri-Entrepreneurship. He told entrepreneurship is one of the key drivers for economic development increases. Agri-entrepreneurship in common language can be defined as sustainable, community-oriented, directly-marketed agriculture. It is beneficial combination of agriculture and entrepreneurship and convert your farm into an agribusiness. This association of agriculture and business promotes agri-entrepreneurs who innovate, identify markets and satisfy needs by developing different ways. The term agri-entrepreneurship is similar with entrepreneurship in agriculture and describes agribusiness establishment in agriculture and allied sector.

The next session was delivered by **Dr. Sarita Mehra** and **Dr. S. P. Mehra, RSNH, Bharatpur**. They discussed Rural Start Ups for the Empowerment of Rural women: An Experiment of RSNH, Bharatpur. They explained training and mentoring vulnerable women and their families in rural communities with basic Entrepreneurship and Small-scale business startups skills. Then there was the interaction with UBA coordinators Dr. U. N. Roy and Dr. Poonam Syal, Associate Professor, Department of Rural Development.

The workshop was very informative and educative for all the participants.

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Certificate of Participation

It is to certify that *Chandan Choubey* from *Dronacharya Group of Institutions* for Participating in the Three days Workshop of "Rural Entrepreneurship and Rural Start-Ups" held from 17th-19th February,2021

Dr. U N Roy
RCI, Coordinator
NITTTR, Chandigarh

Certificate of Participation

It is to certify that *Neelam Bhardwaj* from *Dronacharya Group of Institutions* for Participating in the Three days Workshop of "Rural Entrepreneurship and Rural Start-Ups" held from 17th-19th February,2021

Dr. U N Roy
RCI, Coordinator
NITTTR, Chandigarh

Link of the Event: https://gnindia.dronacharya.info/events/Workshop-Rural-Entrepreneurship.aspx?Month=Feb&Year=2021

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Name of the event: One-day Pilot Workshop on DSpace

Date of the event: 13th February, 2021

No. of Participant:2

Summary of the event: National Virtual Library of India (NVLI), funded by the Ministry of Culture, Government of India, conducted an online one-day pilot workshop on **"DSpace: Digital Repository System"** on **February 13, 2021** from 10 a.m. to 5 p.m. **Professor Kannan Moudgalya** PI, NVLI and Spoken Tutorial Project, the workshop's course coordinator, gave a welcome address.

This workshop was only open to those who had been invited. The invitation link for online registration was sent by IIT Bombay. This workshop was held for two separate groups of people. This was limited to the Librarians/ library staff and system administrators from each institution.

Mr. Rakesh Kumar, Assistant Librarian and **Mr. Bharat Bhushan**, System Administrator from **Dronacharya Group of Institutions, Greater Noida** attended the online session. All the registered participants attended the workshop from their convenient place. Virtual classroom systems were used to interact with participants. There were live video interactions and Spoken Tutorial sessions during the workshop. During the Spoken Tutorial sessions, participants were expected to learn DSpace using a side by side method. There was a separate classroom created for two different audiences (librarian & system administrators) during the practice sessions in the workshop.

Following topics were covered in the workshop:

- Overview of DSpace
- DSpace installation on Windows and Ubuntu Linux OS
- Email configuration for DSpace
- Customization of DSpace Home Page
- User Registration in DSpace
- Managing DSpace user accounts
- Created Community and sub-community
- Created Collection
- Item submission in DSpace
- Item Review in DSpace
- Batch import of Items

After successfully completion of the workshop, librarians are capable to provide accessed to users using standard protocol. Now they can organize digital contents in hierarchical manner and can manage user authorizations to content in digital repository. And System Administrators would be able to Install DSpace on Windows 10 / Ubuntu Linux 18.04 Operating Systems, configure email settings of DSpace to send/receive emails and customise DSpace User Interface.

The participants had a great opportunity to learn about the DSpace open source repository software package.

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Spoken Tutorial

INDIAN CULTURE
Discover, Learn, Immerse, Connect

Certificate

This is to certify that

Bharat Bhushan

from Dronacharya College of Engineering, Greater Noida
participated and successfully completed the course tasks

in an online One day pilot workshop on DSpace on 13 February 2021.

conducted by Indian Institute of Technology Bombay

They attended the workshop registering under the System Administrator category.

This training was conducted under the aegis of National Virtual Library of India (NVLI), funded by the Ministry of Culture, GoI

Prof. Kannan Moudgalya
Principal Investigator
National Virtual Library of India

This training was made possible with help from Spoken Tutorial Project, at IIT Bombay, funded by the Ministry of Education, Govt. of India.

For details and verification, scan the QR code

Link of the Event: https://gnindia.dronacharya.info/events/Pilot-Workshop-on-DSpace.aspx?Month=Feb&Year=2021

Name of the event: Webinar on Role of Virtual and Basic Application (VBA) in Oil and Gas Refinery

Date of the event: 21st May 2021

No. of Participant:15

Summary of the event: Department of **Mechanical Engineering, Dronacharya Group of Institutions Greater Noida** organized a webinar on the **"Role of Virtual Basic Application in Oil and Gas Refinery"** on **21st May 2021**. **Mr. Amar Prakash from Baker Hughes** (American International Industrial Service Company) was the speaker of the webinar. IV and VI semester ME Department students attended the webinar.

The main objective of the webinar was to guide student's role of database creation and VBA to create easy to use documents for report generation.

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The webinar started with the introduction to **VBA. Mr. Amar** told Visual Basic for Applications (VBA) is a computer programming language developed and owned by Microsoft. He explained with VBA one can create macros to automate repetitive word- and data-processing functions, and generate custom forms, graphs, and reports. Next he told with VBA it is very easy to create a program for engineering calculations. Inventory Management is also possible with VBA

Session ended with the question and answer session.

It was a knowledgeable session.

Link of the Event: https://gnindia.dronacharya.info/events/VBA-WEBINAR-29122021.aspx?Month=May&Year=2021

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Name of the event: Workshop on "Drone Assembly"

Date of the event: 12th June 2021

No. of Participant:30

Summary of the event: **Dronacharya Group of Institutions, Greater Noida** organized a workshop on **"Drone Assembly"** for EEE and ECE students on **12th June 2021**. **Prof. Chandra Shekhar Singh** took the session.

The objective of the session was to guide the students about the Drone Assembly.

Prof. Chandra Shekhar Singh began the session by discussing the various component used in assembly of drone. They included sensors, the electronic speed controller flight control board. Further he also told students, the materials of the various frames used for assembly, the different carbon composites.

Next explained the importance of programming a drone and various application of drone with different programming algorithms. He also told students about the software- Integrated Development Environment (IDE)- and how the programming works and proceeds in the system.

In the end **Prof. Shekhar** cleared the doubts of the students.

Overall it was a knowledgable session as students learnt about the drone assembly.

Link of the Event: https://gnindia.dronacharya.info/events/Drone-Assembly-2021.aspx?Month=Jun&Year=2021

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Name of the event: Webinar on " The Importance of EDP Program for General Industrial Readiness"

Date of the event: 5th December 2020

No. of Participant:56

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized a webinar on "The Importance of EDP Program for General Industrial Readiness" on 5th December 2020.

Link of the Event: https://sway.office.com/ZF1GjCTCLv56XPN2

Name of the event: Design Factory

Date of the event: 16th January 2021

No. of Participant:70

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized a event " Design Factory" on 16th January 2021.Under the event Mechanical and Civil Engineering Department organized a one week workshop on Design Using Autocad on 11th -15th January 2021.

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Link of the Event: https://sway.office.com/lB2QjcdAUBkJIaMA

Name of the event: One Week Workshop on Hardware Programming Using Arduino

Date of the event: 11th - 16th January 2021

No. of Participant:31

Summary of the event: Department of ECE & EEE, Dronacharya Group of Institutions, Greater Noida organized an event "Electro Thinker" from 11th -16th January 2021. Under the event one week workshop on Hardware Programming Using Arduino was conducted. Prof. Probeer Sahw, Faculty member was the instructor was the workshop.

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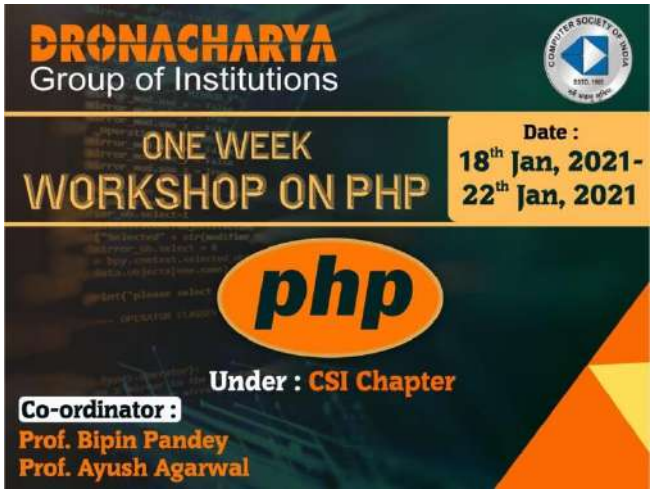
Link of the Event: https://sway.office.com/lB2QjcdAUBkJIaMA

Name of the event: One Week Workshop on PHP

Date of the event: 18th -22nd January 2021

No. of Participant:2

Summary of the event: CSI Student Chapter, Dronacharya Group of Institutions, Greater Noida organized a one week workshop on PHP from 18th -22nd January 2021. Faculty members Prof. Bipin Pandey and Prof. Ayush Agarwal were the co-ordinator of the workshop.



Link of the Event: https://sway.office.com/lB2QjcdAUBkJIaMA

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Name of the event: Online Webinar on “Introduction To CrowdSource”

Date of the event: 13th May 2021

No. of Participant:45

Summary of the event: An online webinar on “Introduction to CrowdSource” powered by Google Assistant was organized for the students of Dronacharya Group of Institutions, Greater Noida on 13th May 2021. Mr. Ekant Puri was the eloquent rhetorician speaker of the session.

Link of the Event: https://sway.office.com/uNJ3V2GSzZzJexqR

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Name of the event: Webinar on "Getting Started with Problem Solving"

Date of the event: 14th -15th May 2021

No. of Participant:655

Summary of the event: CSE Department, Dronacharya Group of Institutions, Greater Noida organized a webinar on "Getting Started with Problem Solving" for 1st, 2nd and 3rd Year students on 14th - 15th May 2021. Prof. Ashima Mehta, CSE Department along with codechef coordinators Vivek Yadav and Anubhav Sharma conducted the webinar.

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Link of the Event: https://sway.office.com/uNJ3V2GSzZzJexqR

Name of the event: Webinar on “Entrepreneurship: Finding your growth and opportunities in current trends”

Date of the event: 24th May 2021

No. of Participant:80

Summary of the event: Dronacharya Group of Institutions, Greater Noida organized webinar on “Entrepreneurship: Finding your growth and opportunities in current trends” on 24th May 2021. Shakti Saurav a final year student was the speaker of the session.

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Link of the Event: https://sway.office.com/uNJ3V2GSzZzJexqR

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Name of the event: Cisco Networking Academy Workshop on Computer Network

Date of the event: 17th August 2019

No. of Participant:30

Summary of the event: A one day workshop on **"Computer Network"** was organized for the students of **Smt. Brahma Devi Saraswati Balika Vidya Mandir** on **17th August 2019** at **Dronacharya Group of Institutions, Greater Noida**. The workshop was attended by two faculty coordinators and 26 students of Std.11th and Std.12th. **Mr. Manoj Kumar Yadav, Instructor** of **Cisco Networking Academy** at **Dronacharya Group of Institutions** conducted the workshop.

The objective of the workshop was to enhance the technical and practical knowledge of the participants in the field of Computer Networking.

The session started with a lecture on Networking Module. **Mr. Yadav** explained Exploring the Network, Configuring a Network Operating System, IPv4, Network Protocols and their Communications.

Mr. Yadav also discussed how multiple networks are used in everyday life and the usage of the topologies and devices in a small - to medium-sized business network through practical exposure on CISCO-Packet Tracer Simulator.

Mr. Manoj Yadav conducted session on Ethernet, Network Layer and Transport Layer. He explained the operation of the Ethernet sub-layer, the purpose and characteristics of the Ethernet MAC address.

The concluding session was devoted to question answers and interaction with the students.

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Link of the Event:
https://gnindia.dronacharya.info/events/Workshop_on_Computer_Network_2_03102019.aspx?Month=Aug&Year=2019

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Name of the event: Coordinators' Workshop on LINUX

Date of the event: 03rd August 2019

No. of Participant:1

Summary of the event: A one day **Coordinators' Workshop on LINUX** was conducted by **Indian Institute of Technology, Bombay** on **3rd August 2019** at **Dronacharya Group of Institutions, Greater Noida (IITB Remote Centre ID : 1316) and 139 other Remote Centers through A - View.** The workshop meant for faculties from technical institutes and schools was organized under the aegis of **'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT),** funded by the **Ministry of Human Resource Development, Government of India.**

Mr. Rajkamal Kishor Gupta from Dronacharya Group of Institutions, Greater Noida, nominated as the Coordinator, attended the workshop at DGI - Greater Noida.

Inaugurating the workshop, **Prof. Kumar Appaiah, Course Coordinator from IIT Bombay** briefed the participants about LINUX, which is an operating system that works like Windows and Mac OS. As an operating system, Linux manages all hardware and provides services to other software which they need to run.

Giving a brief of the course, **Prof. Kannan Moudgalya** - Spoken Tutorial Coordinator, IIT Bombay said that **FOSSEE (Free / Libre and Open Source Software for Education)** project at IIT Bombay has been promoting LINUX, and other FLOSS software, such as Python, Scilab, OpenFOAM, eSim, Osdag, OpenModelica, DWSIM & R, and Open Source hardware, such as Arduino and OpenPLC.

Prof. Kannan Moudgalya later explained the roles and responsibilities of the RC and WS Coordinators for the **Main Workshop on LINUX** which is scheduled to be held on **23rd August 2019.**

During the successive sessions, participants were explained how to install LINUX, its uses and implementation.

The workshop ended with the Question & Answer and the Valedictory Session.

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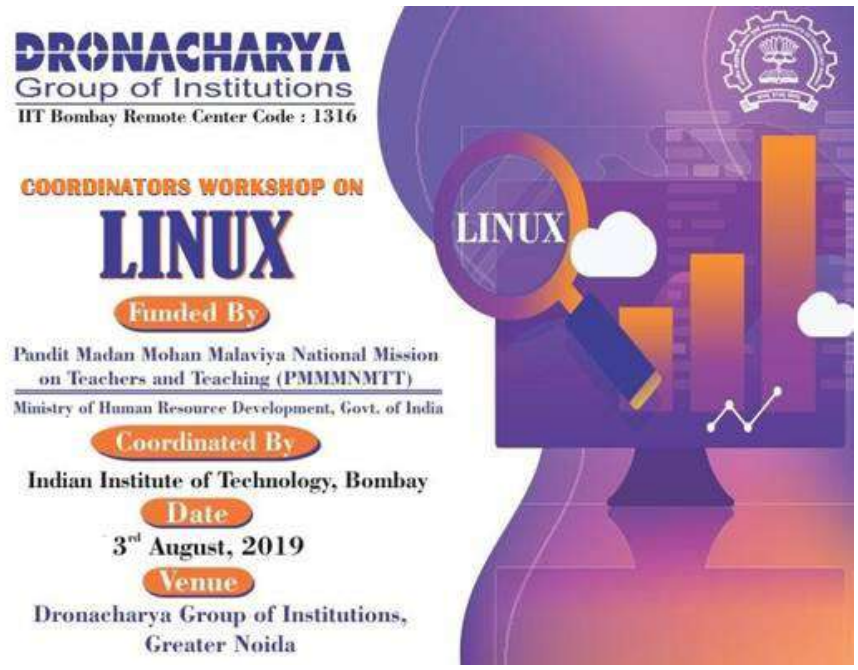

Link of the Event:
https://gnindia.dronacharya.info/events/Workshop_on_LINUX_23092019.aspx?Month=Aug&Year=2019

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Name of the event: One Day Workshop on eSim(First Course in the IoT Series for Teachers)

Date of the event: 21st September 2019

No. of Participant:1

Summary of the event: A one day **Workshop on eSim, first course in the IoT series for teachers** was conducted by **Indian Institute of Technology, Bombay,** on **21st September 2019 at Dronacharya Group of Institution, Greater Noida through A - View.** The workshop was meant for faculties from technical institutions to enhance the skills which in turn would be beneficial for students. The workshop was organized under the aegis of **Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)** funded by **the Ministry of Human Resource Development, Government of India.**

36 participants from technical institutions across the state participated in this workshop which was coordinated by **Mr. Probeer Sahw, Assistant Professor and HOD-ECE & EEE**, **Dronacharya Group of Institutions, Greater Noida (RC-1316)**.

The workshop was inaugurated by **Prof. Kannan Moudgalya, Principal Investigator, PMMMNMTT, IIT Bombay** and **Prof. Pramod Murali,** Faculty, IIT Bombay. **Prof. Moudgalya**, during his brief on the workshop, said that **eSim** is an **open source EDA tool** for circuit design, simulation, analysis and PCB design. He added that this workshop is the first course in the IoT series which will be followed by workshops on **Arduino** and **PLC**. **Prof. Moudgalya** briefly described the role of simulation and impact of simulation on the current industry. He had assigned the task to perform the simulation on eSim and verify with the hardware module.

After the inaugural session the participants attended the lab session in which they performed various tasks using eSim. They created circuit schematic and performed simulations of basic electronic circuits. They were provided with Astable Multivibrator hardware on which they performed certain experiment and ran simulation using eSim. Participants than verified the simulation results using the hardware. The entire session was conducted by side-by-side learning method.

The workshop ended with a doubt clearing session by IIT-Bombay FOSSEE Team through A-VIEW.

Video Links : AView Sessions

Session 1 : **https://www.youtube.com/watch?v=hC1vpHxYVRc**
Session 2 : **https://www.youtube.com/watch?v=7Ve-Q7f0eUs**
Session 3 : **https://www.youtube.com/watch?v=3m0lvuvtEqY**
Session 4 : **https://www.youtube.com/watch?v=exHKWahr3c8**

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Link of the Event:
https://gnindia.dronacharya.info/events/One_Day_Workshop_on_eSim_24092019.aspx?Month=Sep&Year=2019

Name of the event: Unnat Bharat Abhiyan 2.0 Dayalbagh Educational Institute (Deemed University), Agra

Date of the event: 2nd December 2019

No. of Participant:2

Summary of the event: A One-Day Orientation-cum-Workshop was organized for Participating Institutes (PIs) under Unnat Bharat Abhiyan (UBA 2.0) at Dayalbagh Educational Institute (Deemed University), Agra on **2nd December 2019**. **Faculty members from Dronacharya Group of Institutions, Greater Noida, Dr.S.K.Srivastava, Professor, Department of Applied Sciences and Humanities** and **Mr. Rajranjan Prasad**, Asst. Professor,**Electronics and Communication Engineering** attended the workshop.

The Inaugural Session began with informative words of **Dr. Ashok Jangid, Coordinator RCI-DEI, UBA 2.0, Department of Physics & Computer Science, Dayalbagh Educational Institute.** He said that the conceptualization of Unnat Bharat Abhiyan started with the initiative of a group of dedicated faculty members of Indian Institute of Technology (IIT) Delhi working for long in the area of rural development and appropriate technology. The concept was nurtured through wide consultation with the representatives of a number of technical institutions, Rural Technology Action Group (RuTAG) coordinators, voluntary organizations and government agencies, actively involved in rural development work, during a National workshop held at IIT Delhi in **September, 2014.**

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Mr. Ajayveer Singh Yadav, Deputy Director, Social Welfare Department, Agra Mandal was the Chief Guest of this One-Day Orientation-cum-Workshop.

He emphasized upon the need for field work, stake-holder interactions and design for societal objectives as the basis of higher education and to foster a new dialogue within the larger community on science, society and the environment and to develop a sense of dignity and collective destiny.

Prof. Anand Mohan, Registrar - Dayalbagh Educational Institute discussed the vision of Unnat Bharat Abhiyan. He said that Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. He also discussed the Mission of Unnat Bharat Abhiyan. He said that Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India in identifying developmental challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

After tea break the session started with the Frame work of plan of action and funding and convergence by **Prof. Priyanka and Prof. Vivek, IIT Delhi.** They explained about the plan of action for villages, i.e.,

- Awareness camps for water management, water safety.
- Awareness about natural ponds and their cleanliness from weeds and cleanliness campaign by students to clean the ponds.
- Awareness and cleanness of natural water resources like step well, wells etc.
- Awareness and use of twin bin system in each home and waste management and recycling and revising.
- Placement of Garbage bins in the village.
- Construction of water tank for conserving water from the natural spring.
- Solar light in public places in the village.

They also discussed the funding part of project related to Unnat Bharat Abhiyan.

Prof. Prem Saran Triumalani, DEI Dayalbagh, discussed about DEI's contribution in enhancing livelihoods of local street food venders. He said that DEI Dayalbagh and local food authorities started training session for street food vendors on subjects including health, hygiene, safe food handling, waste food disposal and entrepreneurship. At these trainings, vendors learn about how to handle food with gloves, hand washing, storage techniques, proper washing of fruits and vegetables, personal hygiene and entrepreneurship.

Prof. K. Soami Daya, DEI Dayalbagh, said that DEI aims to serve as an exemplary model of education, covering the entire spectrum of knowledge and wisdom, to selflessly serve mankind by evolving a race of supermen, who possess the virtues to resolve the grave global challenges and establish a more humane and enlightened society.

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After Lunch break session started with field experience in different areas.

Dairy - The field experience was shared by **Prof. Prem Saran Titumalai.** He said that Dairy Science focuses on the production and manufacturing of all dairy products, including milk. Entering this field requires knowledge of animal nutrition, reproduction, lactation and business.

Gawashala - The experience was shared by **Prof. Suneshwar Prasad.** He said Gaushalas are protective shelters for cows in India. They focus on treating cows well and consequent cultural sensitivity towards their welfare. As the initial step in this, indigenous bullocks are being distributed to various Goshalas for the development of breed. People have been visiting for the study and training on cow development from various parts of the state.

Textile Lab - The experience was shared by **Prof. Payal Bhatnagar.** She discussed the textile industry in India which traditionally, after agriculture, is the only industry that has generated huge employment for both skilled and unskilled labour. The textile industry continues to be the second-largest employment generating sector in India. She also explained that Handbag Design and Manufacturing.

The Orientation-Cum-Workshop ended with the certificate distribution by **Dr. Ashok Jangid, DEI Dayalbagh** and the Vote of Thanks by **Dr. Ranjit Kumar, Department of Chemistry, DEI Dayalbagh.**

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Certificate of Participation

We have great pleasure in awarding this certificate to

Dr. S. K. Srivastava

for participating in One Day Regional Orientation-cum-
Workshop for Participating Institutes organized by RCI-DEI, Agra
On 2nd December 2019 at Dayalbagh Educational Institute (Deemed University), Agra

Dean, Faculty of Science
(Prof. V. R Satsangi)

Coordinator RCI-DEI
(Dr. Ashok Jangid)

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Certificate of Participation

We have great pleasure in awarding this certificate to

Raj Ranjan Prasad

for participating in One Day Regional Orientation-cum-
Workshop for Participating Institutes organized by RCI-DEI, Agra
On 2nd December 2019 at Dayalbagh Educational Institute (Deemed University), Agra

Dean, Faculty of Science
(Prof. V. R Satsangi)

Coordinator RCI-DEI
(Dr. Ashok Jangid)

Link of the Event: https://gnindia.dronacharya.info/events/Unnat-Bharat-Abhiyan-17122019.aspx?Month=Dec&Year=2019

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Name of the event: Faculty Member attended Coordinators' Workshop on Arduino

Date of the event: 18th January 2020

No. of Participant:1

Summary of the event: A one day coordinators' workshop on **"Arduino"** was organized by **IIT, Bombay** on **18th January 2020** at **F.C.Kohli Auditorium IIT Bombay.** The workshop was meant for faculties from technical institutes who would act as course coordinators and organize the main workshop at their respective remote centres. The workshop was organized under the aegis of **'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT),** funded by **the Ministry of Human Resource Development, Government of India.**

Around 105 participants from technical institutions across the country participated in this workshop. Faculty member **Ms. Payal Garg, Assistant Professor, Department of Electronics & Communication Engineering** represented **Dronacharya Group of Institutions, Greater Noida, Delhi NCR** in the workshop.

The workshop was inaugurated by **Prof. Kannan Moudgalya, Principal Investigator, PMMMNMTT, IIT Bombay in the presence of Mr. Narendra Mohapatra** - **CEO** - **Electronic Sector Skill Council of India** and **Dr. G.V.V Sharma, Associate Professor, IIT Hyderabad.**

Prof. Moudgalya, in his address talked on how this learning approach is being appreciated nationwide and how this has helped in bringing minds together building a better tomorrow. He explained the importance of Arduino and its possible applications.

Mr. Narendra Mohapatra in his address spoke on the importance of hands-on approach and how this is helpful in skill development amongst young minds.

Dr. G.V.V Sharma described his classroom approach and how the teachers should actually be aiming to teach, for the benefit of the students.

Following the inaugural session, the participants attended the lab session in which they performed various tasks using Arduino. They started with basic sessions like blinking an LED and tricolour LED, which went onto creating wireless links using wifi modules and other components. The entire session was conducted by side-by-side learning method. All the queries raised by the participants were resolved through FOSSEE forum.

In the last session there was an open discussion where the participants told their different innovations using Arduino boards.

The workshop ended with the vote of thanks by **Prof. Moudgalya.**

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Link of the Event: https://gnindia.dronacharya.info/events/report-Arduino-Workshop.aspx?Month=Jan&Year=2020

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Name of the event: Workshop on Combating Fraud Activities using Data Science

Date of the event: 11th January 2020

No. of Participant:1

Summary of the event: To study the impact of fraudulent activities in Social Science, Journalism, Product Reviews, Forged Imagery, Cybercrime, and Finance, a workshop on "**Combating Fraud Activities using Data Science" was organized** by Laboratory for Computational Social Systems (LCS2) at IIIT Delhi on **11th January 2020. Mrs. Neelam Bhardwaj, Assistant Professor, Dronacharya Group of Institutions, Greater Noida** attended the workshop.

The workshop started with the lighting of lamp by **Mr. Ranjan Bose** (Director IIIT Delhi)**, Dr. Tanmay Chakraborty** (Assistant Prof. IIIT Delhi) and **Mr. Shad Akhtar (**Assistant Professor, IIIT Delhi). Next **Mr. Ranjan Bose** gave the welcome speech.

Next session was the keynote presentation by **P.N. Vasanti** (Director General, Center for Media Studies). She told, CMS has the distinction of setting up the first Media Lab in India that studies trends in both electronic and print media along with developing strategies, which meet the needs of the media world. She further explained many media channels are showing fake news and fake news go viral immediately. She explained to the participant not to immediately believe, what is shown on media or on any of the social platform. Just go through all the concept and reality behind the information before believing the information.

Dr. Sriparna Saha (Associate Professor, IIT Patna) took the next session and explained microblog summarization. She explained social networking sites such as Twitter have become the primary sources for real-time information of ongoing events such as political rallies, natural disasters etc. At the time of occurrence of natural disasters, it has been seen that relevant information collected from tweets can help in different ways. Therefore, there is a need to develop an automated microblog/tweet summarization system to automatically select relevant tweets.

Continuing the workshop there was a presentation by two Ph.D students namely **Shivangi Singhal** and **Sarah Masud**. Both of them explained their research paper and new techniques used in their research to verify the online frauds using Data Science.

Dr. Deepak Padmanabhan (Lecturer, Queen's University BelFast) took the session and explained the fake news detection. He said, a plenty of social media platforms are available to exchange information rapidly. Such a rapid propagation and accumulation of information form a deluge, in which it is hard to believe all the pieces of information since it appears to be very realistic. In this context, characterizing and recognizing misinformation, especially, fake news, is a highly recommended computational task as this can mislead others. He explained Data Types for Fake News. He further told, fake news characterization and detection are the computational studies that focus to get rid of the highly malicious news creation and propagation. He then explained Two Families of Approaches i.e ML Approach and DB Approach.

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Next **Dr. Tanmoy Chakraborty** (Assistant Professor, IIITD) told about their LCS2 (Laboratory for computational social system). He told all the ongoing working projects and proposed word being carried on in their Lab. He also told about the funding and scholarship received to them from different govt. and private agencies.

In the lunch break there was a poster session in which ongoing research paper of the students of IIITD were shown.

Next **Ms. Anushree Bishnoi** and **Mr. Ankur Pandey**, Founder of Unfound AI took the session. They told about their organization and how they deal will fake news. They told UnFound is a powerhouse of deep learning based Natural Language Processing techniques. They use their own technology to signal content's credibility, fact check claims and surface contrasting viewpoints for a complete understanding of any topic.

Next **Mr. Girish Keshav Palshikar** (TCS Research) and **Dr. Vikram Goyal** (Head and Associate Professor IIIT D) explained the techniques they have used in date science for fake news detection.

Last session of the workshop is the research paper presentation by the PhD student of **IIITD Subhabrata Dutta.**

Workshop ended with the certification distribution ceremony and vote of thanks by **Dr. Tanmoy Chakraborty.**

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Link of the Event: https://gnindia.dronacharya.info/events/CoFAD-DGI-17012020.aspx?Month=Jan&Year=2020

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Name of the event: Faculty Member attended e-Yantra workshop on "Introduction to Robotics"

Date of the event: 7th - 8th January 2020

No. of Participant:4

Summary of the event: A two-day e-Yantra workshop on **"Introduction to Robotics"** was conducted by **e-Yantra, IIT Bombay** on **7th - 8th January 2020** at Cluster Innovation Centre, Delhi University, Delhi. Best faculty members of **Dronacharya Group of Institutions, Greater Noida Mrs. Lily Kumari** and **Mr. Chandan Choubey** Assistant Professor, ECE Department**, Mr. Dharmendra Pal** and **Mr. Pradeep Singh Chauhan** Assistant Professor CSE Department attended the workshop.

e-Yantra is a **MHRD** sponsored initiative by IIT-Bombay under the **National Mission on Education through ICT (NMEICT)** program to create the next generation of embedded systems engineers with a practical outlook to help provide practical solutions to some of the real world problems.

Day 1 : 7th January 2020

The workshop was inaugurated by **Prof. Shobha Bagai,** Coordinator Cluster Innovation Centre, Delhi University. Prof. Bagai**,** said, such workshops are intended to allow the faculties from institutes to keep upgrading their technical skills in the field of robotics**.** She welcomed **Mr. Abhijeet Pandey** and **Mr. Sachin,** Sr. Technical Project Assistants from e-Yantra, IIT-Bombay who were also the trainers of the workshop.

Mr. Abhijeet Pandey started the session with an introduction to e-Yantra and eLSI (e-Yantra Lab setup Initiative). eLSI enables colleges to setup embedded system and robotics lab and provide training to the teachers to effectively use the lab. He continued the session with detailed description of the Fire Bird V Robot, the robotic platform on which the participants worked during the workshop. Further, he discussed specification and the working of each component of Fire bird V and the microcontrollers used in the robots ATmega 2560 AVR. He further explained programming in Embedded C using Atmel Studio 6-6.2.1563 platform.

Next Live training session started by simply blowing the buzzer and move towards the motion controller of the robotics which helps participants to move the robot in all directions and create S shaped path. Further participants worked on glowing of alternate LED's on various different situations.

Later, **Mr. Sachin** upgrades the difficulty level on the motion of robot by introducing the velocity control functions under the topic Pulse Width Modulation (PWM) which helps in rotating the motors on different speeds.

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At the end of day first **Mr. Abhijeet** gave several problems for enhancing the practical and technical knowledge.

Day 2 : 8th January 2020

Mr. Abhijeet Pandey started his first session of the day on basic concepts of LCD Display and its interfacing with the AtMega2560 Microcontroller. Later on all the participants displayed various alphanumeric strings like IIT-BOMBAY, DRONACHARYA, and **08-01-2020** on the LCD.

After performing the **LCD interfacing** participants moved toward the **ADC interfacing** module. In this module detail knowledge of **ADC** and **DAC interfacing** was illustrated. He had given the basic concept of set and reset.

In the next session, **Mr. Sachin** described the white line follower concept and its programming to the participants. The workshop ends with doubt clearing session.

The workshop was interesting and interactive with ample hands-on sessions.

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Link of the Event: https://gnindia.dronacharya.info/events/Faculty-attended-E-yantra-Workshop.aspx?Month=Jan&Year=2020

Name of the event: Workshop on VLSI Technologies

Date of the event: 4th February 2020

No. of Participant:30

Summary of the event: **IEEE Student Branch, Dronacharya Group of Institutions**, **Greater Noida** in association with **3ST Technologies Pvt. Ltd** organized a workshop on **"VLSI Technologies"** on **4th February 2020 at College campus.**

The key speaker of workshop was **Mr. Sandeep Gupta**, Director, **Mr. Abhishek Kumar Singh**, Associate Design and Verification Engineer and **Mr. Jitender Singh**, Design and Verification Engineer from 3ST Technologies Pvt. Ltd.

The objective of the workshop was to make students to interact with domain experts and gain insights of industry demands.

Prof. B. L. Kaul, Honorable Registrar, DGI welcomed experts from 3ST Technologies Pvt. Ltd. **Prof. Kaul** in his address to the students stressed upon skill development and industry interaction.

Mr. Gupta then started the workshop with introduction to various technologies in the field of VLSI, job roles and prospects in the VLSI design industry.

VLSI (Very Large Scale Integration) is the process of creating an integrated circuit (IC) by combining millions of MOS transistors onto a single chip. The historical growth of IC computing power has profoundly changed the way to create, process, communicate, and store information. The engine of this phenomenal growth is the ability to shrink transistor dimensions every few years.

Mr. Abhishek then provided students with example of logic design and implementation. He provided a number of applications like half adder, full adder, ripple adder etc.

Next **Mr. Abhishek** and **Mr. Jitender** provided hands-on experience to the students. They made the students implement and verify their logic design on FPGA modules.

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During closing ceremony **Prof. Kaul** presented mementos to **Mr. Gupta, Mr. Abhishek** and **Mr. Jitender.** Students found the workshop very useful and were motivated to work further in VLSI Technologies.

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Link of the Event: https://gnindia.dronacharya.info/events/Workshop-on-VLSI-Technology.aspx?Month=Feb&Year=2020

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Name of the event: BMW SKILL NEXT Workshop on “Technical Skilling”

Date of the event: 4th December 2019

No. of Participant:1

Summary of the event: BMW SKILL NEXT of BME Group conducted a one-day workshop on “Technical Skilling” under SKILLNEXT PHASE-II on 4th December, 2019. The workshop was organized at BME Group Training Centre, Gurugram. Faculty members Vishnu Kuntal, ME Department from Dronacharya Group of Institutions, Greater Noida attended the workshop.

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Link of the Event: https://sway.office.com/sQvC4XHnQxEMSvqV

Name of the event: Workshop on R

Date of the event: 17th December 2019

No. of Participant:1

Summary of the event: A one-day workshop on 'R Programming' was organized at Dronacharya Group of Institutions Greater Noida, on 17th December, 2019. The workshop was organized by the Teaching Learning Centre (ICT) at IIT Bombay under the scheme of 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT), an initiative of the Ministry of Human Resource Development, Government of India.

22 participants from technical institutions across the Greater Noida Region participated in the workshop. The workshop was coordinated by Mr. Rajat Kumar, Assistant Professor, CSE Dept, Dronacharya Group of Institutions, Greater Noida.

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Link of the Event: https://sway.office.com/sQvC4XHnQxEMSvqV

Name of the event: One week Summer Workshop on AUTOCAD

Date of the event: 16th - 21st July, 2018

No. of Participant:1

Summary of the event: A one week summer workshop on **"AUTOCAD"** was organized by **Mechanical Engineering Department** in association with **SAE India Collegiate Club** of **Dronacharya Group of Institutions, Greater Noida** during **16th -21st July 2018. Mr. Brijesh Verma,** Associate Professor (Mechanical Engineering Department) was the resource person for this workshop.

The objective of this workshop was to train student on various aspects of **AUTOCAD** and to expose them to the lucrative carrier in the field of design and development.

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The workshop was inaugurated by **Hon'ble Director Prof.(Dr.) Ashish Soti.** He highlighted the importance of engineering drawing in the field of design and encouraged the participants to use software tools i.e. AUTOCAD for their project work. **Prof. B. L. Kaul, Registrar DGI Greater Noida** advised the students to be attentive and get benefited from such workshop.

16th Jul 2018

On first day **Mr. Brijesh Verma** started the session with a brief description of engineering drawing. He explained various types of letters and lines used in engineering drawing and further explained projection, section of solids and isometric projections. Students also got to learn First & Third angle projections and symbols of projections used in drawing.

In post lunch, **Mr. Verma** gave a brief introduction of **AutoCAD**. Students were informed about its first release and the revised versions launched thereafter.

17th Jul 2018

On the second day **Mr. Verma** described tool bar, menu bar, command window and status bar used in AutoCAD. He then explained the process of setting up the drawing environment. He discussed the Absolute and Relative Coordinate System. He further explained that Object Snap settings.

In post lunch session **Mr. Verma** started with 2D drafting command and explained how to draw lines, rectangles and circles in AutoCAD. Students also learned the usage of **DIMLINEAR, DIMALIGNED and DIMRADIUS command.**

18th Jul 2018

Mr. Verma continued the 2-D command session. He demonstrated various commands with examples such as COPY, MOVE, JOIN MIRROR, EXTEND and ROTATE commands.

In next half, students learned how to draw polygon with inscribed and circumscribed condition. Then they were explained FILLET command, which is used to draw a radius between two intersecting lines or adjacent polyline segments. He later discussed the CHAMFER command that creates a chamfer between two non-parallel lines or any two adjacent polyline segments.

19th July 2018

On fourth day students worked on drawing sheets using AutoCAD commands.

In post lunch session students were explained the orthographic projection after which the students drew the front view, top view and side view with proper dimensioning. **Mr. Verma** then explained how to draw isometric projections in 3 dimensional axis.

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20th Jul 2018

The day began with a session on layer command. Student learned how this command is used to depict different lines i.e. construction line, dimension line, part line etc.

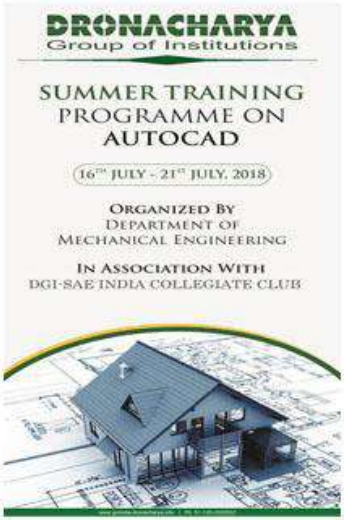
During the post lunch session **Mr. Verma** discussed the commands for 3D Modeling. Several commands such as EXTRUDE, BOX, CONE and SPHERE were discussed. He emphasized on UNION, SUBTRACT and INTERSECT commands.

21st Jul 2018

Mr.Verma explained the usage of commands like **SWEEP, REVOLVE LOFT etc**. Participants applied these command to create 3D objects such as nut, bolt, spring etc.

In the post lunch session, a 2D Drafting Competition was held in which students were asked to complete 2D drawing worksheet within a given time frame. The workshop concluded with evaluation of drawings on the basis of time and quality of finish.

Students showed their keen interest in learning the fundamentals of the 2D Drafting and 3D Modeling on AutoCAD. The lectures, discussions and hands on practices on AutoCAD offered a lot to learn for the participants.



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Link of the Event:
https://gnindia.dronacharya.info/events/OneWeekSummerWorkshop.aspx?Month=Jul&Year=2018

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Name of the event: Summer Workshop on VHDL Programming

Date of the event: 4th - 5th July 2018

No. of Participant:1

Summary of the event: The **Department of ECE & EEE, Dronacharya Group of Institutions, Greater Noida** successfully organized **the Two Days Summer Workshop on VHDL Programming** on **4th & 5th July 2018** at DGI campus. This workshop was conducted in association with **DGI- Institution of Electronics & Telecommunication Engineers (IETE) Student Chapter**. **Ms. Payal Garg**, Assistant Professor, Department of ECE was the coordinator and instructor for this workshop.

The workshop started with the motivational address by Hon'ble Director, **Prof. (Dr.) Ashish Soti** on **4th July 2018.** He advised the participants to remain attentive and focused during the workshop. He said that it is important for students to get well versed with such useful software which are relevant in industries.

Ms. Payal Garg began the session with the introduction of **VHDL (VHSIC Hardware Description Language)**. She said that VHDL is a hardware description language used in electronic design automation to describe digital and mixed-signal systems such **as Field-Programmable Gate Arrays (FPGA)** and **Integrated Circuits (IC)**. VHDL can also be used as a general purpose parallel programming language. The programming is done on **Xilinx ISE Tool (Integrated Software Environment).**

During the pre-lunch session, participants learnt the basics of VHDL, its key features and characteristics. In the later half, they were demonstrated the methodology to work with the Xilinx ISE tool by implementing basic examples of Half Adder, Full Adder, Half Subtractor and Full Subtractor. Participants simulated the design on tool and implemented different modelling techniques as well.

Ms. Garg started the second day's session with the description of test-bench codes, followed by different concurrent and sequential statements. Participants then designed some more codes for Multiplexers, Demultiplexers, Encoders and Decoders using different modeling techniques.

On successful completion of this workshop, the participants seemed confident enough to:

1. Design different models with various levels of complexity
2. Simulate their design and debug, if required
3. Use Xilinx for various project development

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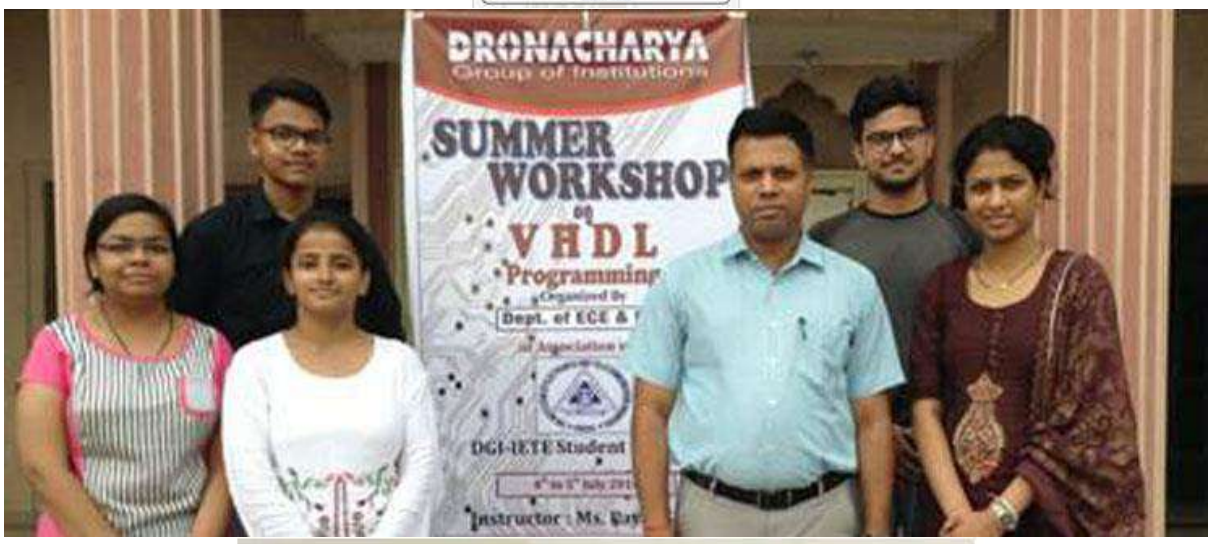
Prof. Probeer Sahw, HOD, Department of ECE & EEE appreciated the participants for their enthusiastic participation. He thanked Ms. Garg for conducting the workshop.



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Link of the Event:
https://gnindia.dronacharya.info/events/VHDL_Programming.aspx?Month=Jul&Year=2018

Name of the event: Summer Workshop on Introduction to Proteus Design Tool

Date of the event: 2nd & 3rd July 2018

No. of Participant:1

Summary of the event: The Department of ECE, EEE, **Dronacharya Group of Institutions (DGI), Greater Noida** in association with **DGI-Indian Society for Technical Education (ISTE) Student Chapter** organized two days workshop **"Introduction to Proteus Design Tool"** on **2nd - 3rd July 2018** at **DGI campus.** The workshop was conducted. **Mr. Ravi Prakash Verma**, Assistant Professor, Department of ECE & EEE.

The Summer Workshop 2018 was inaugurated by **Hon'ble Director - DGI, Prof. (Dr.) Ashish Soti**, who said that this kind of workshops help students to be industry ready. He motivated the students to be attentive during the workshop and stressed upon practical applications of the learning gained thereafter.

Introducing Proteus software package to the participants, **Mr. Verma** said that it is used for **Electronic Design Automation (EDA)** which is widely used to create schematics and electronic prints for manufacturing printed circuit boards. He said that it is also used for simulation and analysis of electronic circuits. The board under development can also be viewed in 3-D for better designing and analysis.

On the first day, participants learnt to simulate and analyse simple electronic circuits using ISIS module available in Proteus software package. Then they went onto simulate electronic circuits for 5V DC power supply, variable voltage modulator using LM317, buzzer system and learnt to leverage the use of oscilloscope.

Day two started with simulation of some more electronic circuits like DC Motor Drive, Stepper Motor Drive, Half and Full Wave Rectifier, Low Pass and High Pass Filters.

Later the participants were introduced to ARES, the PCB designing module available in Proteus software package. They designed various PCB layouts and also verified the design using 3D viewer. The workshop helped the participants learn:

- To leverage various features of Proteus software package
- To design and analyse various electronic circuits using ISIS module
- To design various PCB layout using ARES module
- To use Proteus for various project development

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During the Feedback Session, participants appreciated the effort of the instructor, **Mr. Verma.** They were of the view that the learning they had from the workshop will help them in better designing and execution of their projects. **Prof. Probeer Sahw**, HOD, Department of ECE, EEE thanked the participants for their enthusiastic participation and successfully completion of two days workshop.

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Link of the Event:
https://gnindia.dronacharya.info/events/SumerWorkshop2018.aspx?Month=Jul&Year=2018

Name of the event: Two Days Workshop on "React Native"

Date of the event: 28th & 29th September 2018

No. of Participant:150

Summary of the event: The **Department of CSE, Dronacharya Group of Institutions, Greater Noida,** organized a **Two Days' Workshop on "React Native"**under the banner of **DGI-CSI Student Branch** for 3rd year students of CSE/CSIT/IT on **28th & 29th September 2018**.

Prof. (Dr.) Ashish Soti, Hon'ble Director and **Prof. B.L Kaul, Hon'ble Registrar, DGI** welcomed **Mr. Rohit Singh**, Application Developer and Trainer from Ninepages Tech Solutions Private Limited.

Prof. Soti in his welcome address to the participants said that demands of software developer and application developer are increasing day by day. It's better to learn about trending technologies and different programming aspects.

Prof. B.L Kaul advised the participants to explore different programming languages to make a real mobile app efficiently.

Day-1: 28 September, 2018
After giving a brief outline of the two days workshop, **Mr. Rohit Singh** started the session with basics html coding syntax followed by the basics of CSS and JavaScript. He then outlined the importance of React Native and the themes applied on Microsoft and Google products.

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He explained the data types used in React Native and explained each one of them using a program and utilization of those components.

By the end of the day the participants were able to explain the basics of React Native. **Mr. Singh** concluded the first day's session with the installation of different software like Node JS, Yarn, Android Studio and finally the extraction of SDK zip files.

Day-2: 28 September, 2018
Mr. Singh started the second day's session with the extraction of SDK zip files and setting the environment variables. He then started the coding session in Android studio for the making of app UI.

The second day covered Making of app UI, Splash screen, Screen navigators and Tab navigator.
Participants found the workshop extremely interesting and informative. They were excited to use various components and different methods to make an app UI.

Ms. Monu Singh, HOD - CSE/CSIT/IT thanked all the participants for their enthusiastic participation and the trainer for conducting the workshop in a very informative and inter active way.

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Link of the Event:
https://gnindia.dronacharya.info/events/WorkshopReactNative.aspx?Month=Sep&Year=2018

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Name of the event: Dronacharya Group of Institutions, Greater Noida Workshop on SOLAR PV SYSTEM ENGINERING

Date of the event: 28th and 29th September 2018

No. of Participant:225

Summary of the event: The **Department of ECE & EEE** in association with **BeGenesis Skills Academy** organized a two days' workshop on **Solar PV System Engineering** for 2nd and 3rd year students on **28thand 29th September 2018**.

Prof. (Dr.) Ashish Soti, Honorable Director, DGI and **Prof. B. L. Kaul, Honorable Registrar, DGI** welcomed the trainers from **BeGenesis Skills Academy: Mr. Pritthish Gupta, Co-founder, Mr. Pawan Kumar, Faculty cum Manager Operations-Training & Skill Development** and **Mr. Sachchidanand Mishra, Faculty cum Manager Operations - Training & Skill Development**.

Prof. Soti in his welcome address said that energy demand per capita is growing at a fast rate and conventional sources of energy are not only depleting day by day but also cause enormous pollution. **Prof. Kaul** in his address said that it is wise only to explore more about renewable sources of energy, especially solar energy as solar panels take less space and can be commissioned faster when compared to other renewable sources of energy.

Day-1

Mr. Gupta said that over the next two days workshop will cover the following aspects of Solar PV System Engineering:

1. Solar Power Plant System Designing
2. Solar Power Plant Installation and Commissioning
3. Solar Business Development and Entrepreneurship

Mr. Kumar and **Mr. Mishra** then began with the session on the basics of solar engineering. They explained the principle of working of solar cells, types of solar cells, series and parallel connection of solar modules, construction of solar arrays and panels.

They went onto explain the equivalent circuit of a solar cell and irradiance. They also explained the effect of various factors on the performance of the solar cells. They demonstrated the same by a series of experiments which the participants enjoyed and appreciated.

By the end of the day the participants were able to explain the basics of solar engineering themselves. They could also read various specifications and parameters of a solar panel from its datasheet.

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Day-2

The day began with session on other aspects of solar engineering like matching solar array and inverter, system protection, cable sizing etc. The trainers then explained the design calculations for commissioning solar panels at a particular location. They also explained about the factors which must be taken care of in order to utilize the installed solar panels to the maximum potential.

Participants are then taken on a site survey in the DGI campus for assessing the possibility of commissioning solar panels at different locations under the supervision of the trainers. The session concluded with an extensive hands-on session on solar designing software PVsyst and SunDAT.

The participants found the workshop extremely interesting and informative. They were excited to perform various experiments and site survey all by themselves.

Mr. Probeer Sahw, HOD-ECE & EEE thanked all the participants for their enthusiastic participation and the trainers for conducting the workshop successfully.

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Link of the Event:
https://gnindia.dronacharya.info/events/WorkshopSolarPVSystem.aspx?Month=Sep&Year=2018

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Name of the event: One Day Workshop on Web Development

Date of the event: 1st September 2018

No. of Participant:65

Summary of the event: **Department of Computer Science Engineering, Dronacharya Group of Institutions, Greater Noida** organized a **One Day Workshop on WEB DEVELOPMENT**on**1st September 2018** in association with **DGI-CSI Student Branch.** The workshop was organized as a part of institution's continuous effort of developing project based learning approach in students through practical sessions. The training was imparted by **Mr. Bipin Pandey**, Assistant Professor - CSE which was attended by CSE / CSIT students of B. Tech 2nd year.

The program started with a motivating speech by **Honorable Director, Prof. (Dr.) Ashish Soti.** He encouraged the participants and suggested them to take up some projects at the end of their workshop, based on web development.

Mr. Pandey started the first session explaining various software development building approaches which included a detailed discussion of client side and server side scripting including the theoretical concept of **DBMS**. He also explained how the data is actually migrated from client to server in real time systems using the concept of client server architecture.

During Session 2, **Mr. Pandey** conducted a session on **XHTML and CSS** followed by students createing complete web pages with various features.

The workshop concluded with the assignments discussion which has to be submitted by the students.

Ms. Monu Singh (HOD-CSE) proposed the **Vote of Thanks.**

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Link of the Event:
https://gnindia.dronacharya.info/events/OneDayWorkshopDevelopment2018.aspx?Month=Sep&Year=2018

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Name of the event: Workshop on Cognitive Skills, Design Thinking and Critical Thinking

Date of the event: 30th November 2018

No. of Participant:100

Summary of the event: **DGI-MHRD Institution's Innovation Council (IIC)** organized a half day workshop on **Cognitive Skills, Design Thinking and Critical Thinking** on **30th November 2018** at **Dronacharya Group of Institutions, Greater Noida.**

At the start of the workshop**, Mr. Probeer Sahw, HOD-ECE & EEE and Convener, DGI-MHRD IIC**, gave a brief **on MHRD Innovation Council (MIC)**, major focus of IIC, Constitution and Charter of IIC and schedule of activities to be organized by IIC. **Prof. TPN Singh, Advisor R&D and President, DGI-MHRD IIC** then introduced the IIC members to the audience. **Prof. Singh** asserted that future lies in innovation and design based thinking.

Prof. (Dr.) Ashish Soti, Honorable Director, DGI in his address said that innovation requires logical design of a solution to a certain problem through observation. **Prof. Soti** asserted that students must not limit themselves by the scope of their syllabi but also think beyond their discipline of study while solving a certain problem. He added that transformation of knowledge into a product requires certain skills and such workshops are best way to acquire them.

Session-I: Cognitive Skills

Cognitive skill is the ability to perform various mental activities associated with problem solving. One such aspect is attention to details. On this an activity, **Observe the Room**, was carried out with volunteers from the audience. The volunteers were asked to look around and observe the room carefully and then were asked to leave the room for 2 minutes. Meanwhile few changes were made inside the room and the volunteers were asked to identify the changes. After this few more activities, **90 seconds Rule, Let's Check Your Logic & Reasoning** and **Visualize & Draw** were carried out. The session ended with the activity **Two Hand Writing** where the audience was asked to write their names with both the hands simultaneously on a piece of paper.

Session-II: Design Thinking

Design thinking includes context analysis, problem finding, and ideation then prototyping, testing and evaluating a product to resolve ill-defined problems. The audience was given a problem to test their design skills. The problem was to construct a bridge through which an old man could cross a river. They were given a cardboard piece, scissors, glue and stapler to design a prototype of the bridge. The constraints were that the prototype must be made with minimum resources and structurally sound. Additionally, it must have certain provisions for the old man to cross the bridge smoothly and safely.

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Session-III: Critical Thinking

Critical thinking is the ability to carefully evaluate all the aspects of an issue to form a judgment. First the audience was asked to connect a 3x3 grid of **9 Dots** with minimum number of straight lines possible which required out-of-the-box thinking. Then they were made to solve various **Video Riddles** in which certain real life problems were posed. The solutions to those problems could be obtained only by critical analysis of the clues provided.

The entire workshop was activity based and highly interactive. The audience actively participated in all the activities and enjoyed all the sessions. **Prof. Soti, Prof. Singh** and **Mr. Sahw** appreciated and applauded the efforts of the student organizers in making the event lively and successful.

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Link of the Event:
https://gnindia.dronacharya.info/events/Workshop_CognitiveSkills_2018.aspx?Month=Nov&Year=2018

Name of the event: FACILITATION WORKSHOP ON DST-NIMAT PROJECT

Date of the event: 29th November 2018

No. of Participant:1

Summary of the event: **EDII, Ahmedabad** and **Department of Science & Technology (DST), GoI** organized the **Facilitation Workshop on DST-NIMAT Project** at **ABES, Engineering College, Ghaziabad** on **29 Nov 2018**. **Ms. Usha Dixit,** Scientist E of DST was the chairperson. EDII was represented by **Mr. S. B. Sareen**, Project **Director** and **Mr. P. Prakash Solanki**, Faculty & National Project Coordinator. **ABES Engineering College** was represented by **Dr. G. Singh**, **Director. Prof TPN Singh, Advisor (R&D)** represented **Dronacharya Group of Institutions, Greater Noida**.

Mr. Mahendra Kumar Gupta, (Head Start-up Labs) Co-ordinator of the program gave a brief insight of the program and the eco system existing on entrepreneurship at **ABES College.** He was thankful to EDII and DST for the EAC Programs sanctioned and conducted by the college.

Dr. G. Singh praised the activities of **DST-NIMAT** and stated that innovation and creativity leading to entrepreneurship is the only recourse and option left for the students in the preset day scenario. Jobs are scarce and the day is not far when even high level institutes like IITs, NIT's will face placement vacuum. Students must nurture their dreams and invest time for their ideas to graduate to reality. He gave an example of the Chinese bamboo tree which shows no visible signs of growing in its first five years of existence but in the sixth year it shoots up by 80 feet above ground level. Likewise in the initial years, one must strengthen the roots by hard work and perseverance to reap dividends later. This is precisely the story of all successful start-ups.

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Dr. Usha Dixit spoke on promotion of eco-system of entrepreneurship. Various programs have been initiated by DST towards meeting this cause. Some of these are **TBI program, Centre of excellence program, seed support system program for startups, fellowship program for graduate students, PRAYAS** etc. She advised that proposals can be put forward by Institutes to initiate programs as per their requirements and if found feasible shall be sanctioned by DST. She stressed on innovation which is flavor of the millennia. However, DST has certain expectations in terms of timely reporting and meeting of deadlines.

Mr. S. B. Sareen agreed with the unemployment problem projected by **Dr. G. Singh** and averred that the problem is global but developed countries have various mechanisms to counter the crunch. Demand for Quality education is increasing and job opportunities are dwindling. This mismatch can only be solved by entrepreneurship. In place of looking for jobs one must create jobs.

Mr. P. Solanki rendered a detailed presentation on formats and proforma documentation. He explained the types of documents to be submitted for EAC programs. The format of Utilization certificate, Budgeted expenditure, Post program report was very adequately explained by him.

The program came to an end at 5.15 pm. Thereafter the interested participants were taken for a round of the incubation cell and the startups initiated by the students were demonstrated.

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Link of the Event:
https://gnindia.dronacharya.info/events/DST_NIMAT.aspx?Month=Nov&Year=2018

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Name of the event: Workshop on Business Dining Etiquettes Department of Management Studies

Date of the event: 2nd November 2018

No. of Participant:10

Summary of the event: **Department of Management Studies, Dronacharya Group of Institutions, Greater Noida**organized a one day workshop on **Business Dining Etiquettes** on **2nd November 2018 .** The workshop was inaugurated by Hon'ble Director-DGI, **Dr. Ashish Soti** and **Prof. B.L Kaul,** Registrar-DGI.

Basic common dining etiquettes which are adopted throughout the world were the main focus area of the workshop in order to help the future Managers inculcate the same and adopt them during their professional journey.

Addressing the students, **Dr. Soti** gave a brief introduction about the changing pattern in modern business practices and explained how dining etiquettes are playing a vital role in modern business format. He said that due to globalization, the world today is considered as an international village and for all business tycoons, majority of business deal is happening over a cup of tea or over the lunch.

Dr. Azad Singh, Assistant Professor, Department of Management Studies and Workshop Coordinator, provided a brief about modern business practices and said that world's big business players are adopting virtual working culture and conduct meetings at any place. As such, dining etiquettes are becoming an inevitable learning requirements because people are moving across the continents and experience different cultures from various countries.

The workshop was divided into two parts. The morning session was scheduled for learning through audio visual mode and the post lunch session was scheduled for practical session.

The workshop provided an opportunity for the students to learn:
Event Planning
Designing and decorating Dining Hall and Table
How to serve food
How to use different types of utensils in business meetings
Various behavior and manner

Dr.Sahab Singh, HoD-MBA, congratulated the students for having learned and perform as per expectation. He also thanked the Coordinator, **Dr. Azad Singh** for his efforts in making the workshop a true learning experience for the students.

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Link of the Event: https://gnindia.dronacharya.info/events/WorkshopBusiness-2018.aspx?Month=Nov&Year=2018

Name of the event: Workshop on Intellectual Property Rights (IPR)

Date of the event: 7th December 2018

No. of Participant:20

Summary of the event: **DGI-MHRD Institution's Innovation Council (IIC)** organized a half day workshop on **Intellectual Property Rights (IPR)** on **7th December 2018** at **Dronacharya Group of Institutions, Greater Noida.**

Adarsh Kumar, Student Member, DGI-MHRD IIC welcomed the audience and presented a preview of the activities to be organized by the IIC.

Prof. TPN Singh, Advisor R&D and President, DGI-MHRD IIC opened the workshop with the definition of Intellectual Property. He then went on to explain various Intellectual Properties like **Trademarks, Copyrights, Geographical Indications, Industrial Designs, Breeder's Rights, Utility Models and Patents**. **Prof. Singh** logically explained the difference between a patent and a copyright which cleared all the misconceptions of the audience. He then explained how a patent is obtained for any product or idea. He said that to obtain a patent on an idea or a product it should be novel, must have a proper scientific process and should have an industrial application. He also discussed the steps involved in obtaining a patent from Government of India. After his session, **Prof. TPN Singh** handed over a quiz paper on IPR to the audience. The session was a full package of enlightenment and knowledge about IPR.

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Mr. Probeer Sahw, Convener, DGI-MHRD IIC congratulated and thanked Prof. Singh for conducting a lively and vivid workshop on IPR.

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Link of the Event: https://gnindia.dronacharya.info/events/IPR_2018.aspx?Month=Dec&Year=2018

Name of the event: One Day Main Workshop On Moodle Learning Management System

Date of the event: 15th March 2019

No. of Participant:41

Summary of the event: A one day **Main Workshop On Moodle Learning Management System** was conducted by **Indian Institute of Technology, Bombay** on **Friday, March 15, 2019** at **Dronacharya Group of Institutions, Greater Noida (**Remote Centre **ID : 1316) and other 105 Remote Centers through A-View.** The workshop meant for Teachers and System Administrators was organized under the aegis of **'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMNMTT),** funded by **The Ministry of Human Resource Development, Government of India.**

48 participants, including those from **ABES Ghaziabad, Amity University Noida, Accman Institute Greater Noida, Kendriya Vidyalaya Greater Noida, Jawahar Navoday Vidyalaya Greater Noida and Dronacharya Group of Institutions, Greater Noida** attended the workshop. It was locally coordinated by **Mr. Probeer Sahw, HOD-ECE & EEE, DGI – Greater Noida.**

The workshop was inaugurated by:
Prof. A. K. Suresh **:** Dy. Director, IIT Bombay
Prof. Kannan Moudgalya **:** PI- PMMMNMTT and Spoken Tutorial Project, IIT Bombay
Prof. Deepak Phatak **:** Retd. PI - PMMMNMTT, IIT Bombay

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Inaugurating the workshop, **Prof. Kannan Moudgalya** reminded the participants Moodle has many built-in features ranging from the basics such as file upload, assignments, quizzes, notifications and advanced features such as forums, quiz, wiki, etc. that can be used by learners. It also has many easy-to-install plugins such as attendance, reminders, analytics etc. to supplement these features. Since the participants were expected to register on Spoken Tutorial portal prior to attending the workshop, **Prof. Moudgalya** said that he expected them to make themselves aware of handling all features during the Hands-On session.

Prof. Deepak Phatak praised **Prof. Moudgalya** for his efforts in blending Spoken Tutorial with A-View and broadening its reach even to Polytechnic and School Teachers.

Prof. A. K. Suresh thanked **Prof. Moudgalya** for initiating the blended method of Spoken Tutorial workshops during the celebration of **60th Year of IIT Bombay's existence**.

Post the formal inauguration, participants had hands-on session where they watched several videos on Moodle, understood its features and attempted a few assignments.

During the Valedictory Session, **Prof. Moudgalya** informed that the Moodle Workshop may again be conducted to facilitate those teachers who have not been able to register and attend the first workshop.

Link to Valedictory Session: https://www.youtube.com/watch?v=bajvvuPiCV0

List of Participants @ DGI

1	Sahab Singh	Dronacharya College of Engineering, Greater Noida
2	Probeer Sahw	Dronacharya College of Engineering, Greater Noida
3	Anjali Yadav	Dronacharya Group of Institutions, Greater Noida
4	Bipin Pandey	Dronacharya College of Engineering, Greater Noida
5	Rasna Sehrawat	Amity Institute of Education
6	Ravi Prakash Verma	Dronacharya College of Engineering, Greater Noida
7	Shuchi Mathur	Dronacharya College of Engineering, Greater Noida
8	Rajat Kumar	Dronacharya College of Engineering, Greater Noida
9	Chandan Kumar	Dronacharya College of Engineering, Greater Noida
10	Honey Gupta	Dronacharya College of Engineering, Greater Noida
11	Abhay Raj	Dronacharya College of Engineering, Greater Noida
12	Ankita Gangwar	Dronacharya College of Engineering, Greater Noida
13	Azad Singh	Dronacharya College of Engineering, Greater Noida
14	Jasmeet Kaur	Dronacharya College of Engineering, Greater Noida
15	Amit Jain	Dronacharya College of Engineering, Greater Noida
16	Md Faiz Ali	Dronacharya College of Engineering, Greater Noida
17	Mazhar Hasan	Dronacharya College of Engineering, Greater Noida
18	Md Shahbaz	Dronacharya College of Engineering, Greater Noida
19	Shourya Raj	Dronacharya College of Engineering, Greater Noida
20	Tanya Yadav	Dronacharya College of Engineering, Greater Noida
21	Raj Ranjan Prasad	Dronacharya College of Engineering, Greater Noida

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22	Lily Gupta	Dronacharya College of Engineering, Greater Noida
23	Ashish Kukreti	Dronacharya College of Engineering, Greater Noida
24	Mahima Narula	Dronacharya College of Engineering, Greater Noida
25	Vinod Kumar	Dronacharya College of Engineering, Greater Noida
26	Puja Ranjan	Dronacharya College of Engineering, Greater Noida
27	Sunil Kumar Srivastava	Dronacharya College of Engineering, Greater Noida
28	Dinesh Kumar	Dronacharya College of Engineering, Greater Noida
29	Gudia Devi	Dronacharya College of Engineering, Greater Noida
30	Sumit Mishra	Dronacharya Group Of Institution
31	Shally Yadav	Dronacharya group of institution
32	Siddharth Chowdhary	Dronacharya College of Engineering, Greater Noida
33	Ranjeet Singh	Dronacharya College of Engineering, Greater Noida
34	Akanksha Garg	Dronacharya College of Engineering, Greater Noida
35	Sanjit Srivastava	Dronacharya College of Engineering, Greater Noida
36	Rajeev Gupta	Dronacharya College of Engineering, Greater Noida
37	Jagpal Singh Rana	ACCMAN Institute of Management, Greater Noida
38	Tapan Das	Dronacharya College of Engineering, Greater Noida
39	Pinkal Kumari Yadav	Dronacharya College of Engineering, Greater Noida
40	Mohit Singh Bhandari	Dronacharya College of Engineering, Greater Noida
41	Vishnu Kuntal	Dronacharya College of Engineering, Greater Noida
42	Deepak Kumar Sharma	KENDRIYA VIDYALAYA NO.2 AGRA CANTT
43	Pawan Kumar	Dronacharya College of Engineering, Greater Noida
44	Vikas Singh Bhadoria	ABES Engineering College, Ghaziabad
45	Manoj Kulshrestha	Jawahar Navodaya Vidyalaya
46	Niharika Varshney	ABES Engineering College, Ghaziabad
47	Rajkamal Kishor Gupta	Dronacharya College of Engineering, Greater Noida
48	Ankit Tayal	ABES Engineering College, Ghaziabad

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Link of the Event:
https://gnindia.dronacharya.info/events/Moodle_Learning_Management_System_2019.aspx?Month=Mar&Year=2019

Name of the event: Two-Days e-Yantra Workshop on Introduction to Robotics

Date of the event: 26th & 27th April 2019

No. of Participant:3

Summary of the event: A **Two-Days e-Yantra Workshop on Introduction to Robotics** was conducted by **e-Yantra, IIT Bombay** on **26th and 27th April 2019** at **KEC, Ghaziabad**. e-Yantra is a **MHRD** sponsored initiative by IIT-Bombay under the **National Mission on Education through ICT (NMEICT)** program to create the next generation of embedded systems engineers with a practical outlook to help provide practical solutions to some of the real world problems.

Mr. Probeer Sahw, Asst. Prof. and HOD, ECE & EEE**; Mr. Ravi Prakash Verma**, Asst. Prof., ECE and **Mr. Vishnu Kuntal**, Asst. Prof., ME attended the workshop for **Dronacharya Group of Institutions, Greater Noida.**

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Day 1, 26th April 2019

The workshop was inaugurated by offering prayers to **Goddess Saraswati**. **Dr. Sandeep Tiwari,** Director, KEC in his opening remarks said that such workshops are intended to allow the faculties from technical institutes to keep upgrading their skills**. Dr. Sanjeev Kumar**, Dean-Academics, KEC and **Dr. A. N. Mishra**, HOD-ECE, KEC were also present in the inauguration ceremony. They welcomed **Mr. Avijit Pandey** and **Mr. Abhinav Sarkar,** Sr. Technical Project Assistants from e-Yantra, IIT-Bombay who were also the trainers of the said workshop.

Mr. Pandey started the session with an introduction to e-Yantra. He continued the session with detailed description of the Fire Bird V Robot, the robotic platform on which the participants worked during the workshop. He also gave detailed description of the ATmega2560 AVR Microcontroller which runs the Fire Bird V Robot. He went on to explain programming in Embedded C using Atmel Studio.

Later in the day, **Mr. Sarkar** delivered a session on how to control motion of the Fire Bird V Robot. He also explained the PWM Method to control the velocity of the robot.

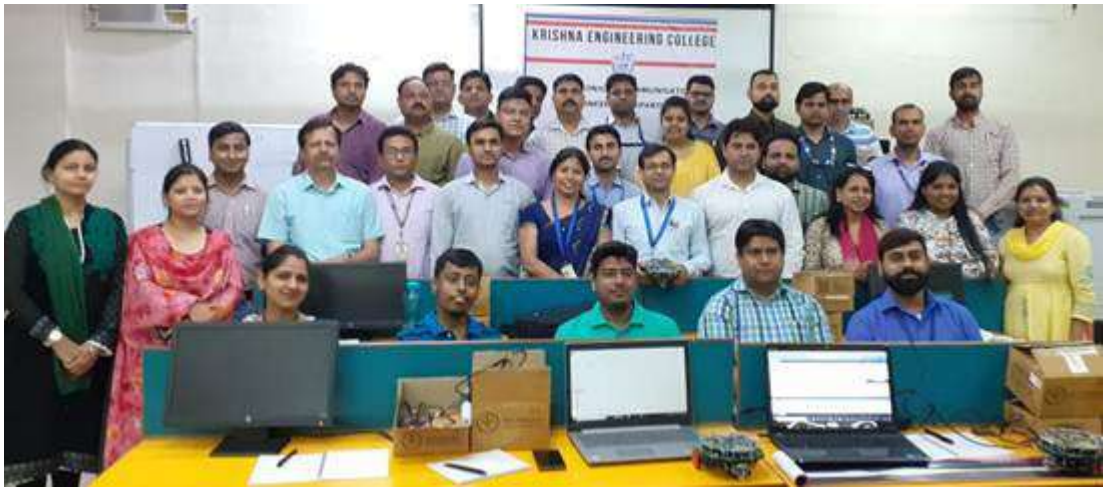
After **Mr.Sarkar's** session, the participants performed the motion and velocity control experiments on the robot.

Day 2, 27th April 2019

Mr. Pandey started the first session with LCD programming. He made the participants use the robot to sense various parameters like object distance and battery voltage using on-board sensors and display the values on the on-board LCD. He then continued the session with Interrupt Programming.

In the post-lunch session, **Mr. Sarkar** described the white line follower programming to the participants. The session concluded with hands-on and doubt clearing.

All the participants appreciated the efforts put by Mr. Pandey and Mr. Sarkar in making the workshop interesting and interactive with ample hands-on sessions.



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Link of the Event:
https://gnindia.dronacharya.info/events/writeup_2019.aspx?Month=Apr&Year=2019

Name of the event: One Day Workshop on Scilab

Date of the event: 4th May 2019

No. of Participant:39

Summary of the event: A one day **Workshop on Scilab** for teachers was conducted by **Indian Institute of Technology, Bombay** on **4th May 2019** at **Dronacharya Group of Institutions, Greater Noida (Remote Centre ID : 1316)** through ICT. The workshop meant for faculties from technical institutes and schools was organized under the aegis of **Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT),** funded by the **Ministry of Human Resource Development, Government of India.**

39 participants including those from **Dronacharya Group of Institutions Greater Noida, ACCMAN Institute of Management, MIET, Sharda University, Galgotias University, Shaheed Rajguru College of Applied Sciences for Women -Delhi, IIMT College of Engineering, Pragyan Public School and IEC College of Engineering and Technology** attended the workshop. It was locally coordinated by **Mr. Probeer Sahw**, HOD-ECE & EEE, DGI â€“ Greater Noida.

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Inaugurating the workshop, **Prof. Kannan Moudgalya**, PI-PMMMNMTT and Spoken Tutorial Project, IIT Bombay briefed the participants about Scilab. He explained its usage in Digital Signal Processing, Control Engineering, Statistical Analysis, Image Processing etc. After taking the queries from the participants he asked them to move to the respective labs and continue the Hands-on session.

The participants went for the lab sessions where they watched tutorial videos on Scilab. They also gained a hands-on experience on Scilab through side-by-side method.

They following topics were later covered by the participants through video lecture:

Vector Operations
Matrix Operations
Conditional Branching
Iterations
Scripts and Functions
Plotting 2D Graphs
File Handling
Solving Non Linear Equations
Interpolation
Digital Signal Processing
Control Systems

The workshop ended with a doubt clearing session with Prof. Moudgalya.

Link to Introductory Session by Prof.Kannan Moudgalya from IIT Bombay
https://www.youtube.com/watch?v=zQumrHpXYIQ

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Link of the Event:
https://gnindia.dronacharya.info/events/Scilab_09052019.aspx?Month=May&Year=2019

Name of the event: Workshop on Emerging Technologies in Electronics and Communication

Date of the event: 22nd May 2017

No. of Participant:1

Summary of the event: A one day workshop on **Emerging Technologies in Electronics and Communication** was organized by **Indraprastha Institute of Information Technology, Delhi** on **22nd May 2017 Mohd. Alamgir Khan** – Assistant Professor, **Dronacharya Group of Institutions, Greater Noida** attended the workshop.

The aim of the workshop was to spread the awareness amongst students and the faculties about **New Technologies and Research** in **Electronics and Communication**.

Workshop started with the introductory speech by **Prof. G. S. Visweswaran,** Professor - IIT, Delhi.

Dr. Sujay Deb, Assistant Professor - IIIT Delhi started the first lecture with a lecture on **Large Scale many core processors** and discussed about the challenges involved in many core processors as power dissipation is a quite a big challenge.

Second Lecture was delivered by **Dr. Sanjit Krishnan Kaul,** Assistant Professor IIIT-D on **Advances in Wireless Communications**. He discussed with the history of **Wireless Communication** and the development in past decade.

Dr. Alexander Fell, Assistant Professor IIIT-D, continued with the third lecture on a project titled **A low cost low power Nest monitoring System for snow petrels (snow petrals are the small birds living in Antartica)** carried out under him. He made a low cost Detector using Arduino based LDR Sensor.

Last lecture of the first session was delivered by **Dr. Shobha Sundar Ram,** Assistant Professor IIIT-Delhi. She discussed about her research topic **Radar tracking of Human**. She has developed a RADAR based technology to detect motion like walking, crawling, running etc. She also shared the results of her findings.

The afternoon Session started with a lecture on **Bio Medical Signal Processing** by **Dr. Anubha Gupta,** Associate Professor IIIT - Delhi. She told some important research problems linked as **Early Disease Diagnosis**, **Neuro - Rehablitation, Early Stroke Prediction** by **ECG Scans** etc.

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Dr. Sneh Saurabh, Assistant Professor IIIT - Delhi delivered a Lecture on **An Overview on Nanoelectronics**. He discussed about the **Nano - Scale Size**, **Scanning Tunnel Microscope(STM), TFETs, NCFETs, NEMS** etc.

The last and the seventh lecture was delivered by **Dr. Saket Anand,** Assistant Professor IIIT - Delhi. He discussed an ongoing project **Self - Driven car**. This is a project under **Dr. Saket** and funded by **Mahindra Motors**. He discussed the project progress and the technologies used in it. He also discussed the **Driver Less E-Rikshaw**, that is also under progress by his team.

Finally, **Dr. Anand** and **Dr. Saurabh** concluded the workshop with the Vote of Thanks. Participation Certificates were distributed to participants.

INDRAPRASTHA INSTITUTE of INFORMATION TECHNOLOGY DELHI

Certificate of participation

This is to certify that

Mohd. Alamgir Khan

has participated in

Workshop on Emerging Technologies in Electronics and Communications Engineering

held on 22nd May, 2017, hosted at IIIT-Delhi, New Delhi, India.

Dr. Saket Anand
Assistant Professor (ECE)
Workshop Co-ordinator

Dr. Sneh Saurabh
Assistant Professor (ECE)
Workshop Co-ordinator

Director
Dronacharya Group of Institutions
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Link of the Event:
https://gnindia.dronacharya.info/events/Workshop_Emerging_Technologies_2017.aspx?Month=May&Year=2017

Name of the event: Two Week Main Workshop (STTP) on Electric Power System Organized by IIT Kharagpur

Date of the event: 10th to 15th July 2017

No. of Participant:29

Summary of the event: A **Two - Week ISTE Workshop (STTP)** on **"Electric Power System"** was conducted at **Dronacharya Group of Institutions, Greater Noida** from **10th to 15th July 2017. The workshop was organised by Indian Institute of Technology, Kharagpur** under the **National Mission on Education through ICT (NMEICT), Government of India** at various Remote Centres. **Dronacharya College of Engineering, Greater Noida** was one of the prominent remote centres of Delhi NCR region. The objective of the workshop was to equip the faculty of engineering colleges with the knowledge of Power System.

4260 participants had registered for the workshop countrywide. 29 participants including **DGI, Greater Noida, AIMT, IEC, United, TERI, Amity attended the workshop** at **Dronacharya Group of Institutions, Greater Noida.**

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Day 1: 10th July 2017

The workshop was inaugurated on **10th July 2017** by **Prof. Raja Datta (Principal Investigator, T10KT, IIT Kharagpur)**
Following distinguished guests were present during the inauguration:

1. **Prof. P. K. Das, Dean, Continuing Education, IIT Kharagpur**
2. **Prof. P. K. Biswas, Co-Principal Investigator, IIT Kharagpur**
3. **Prof. N. K. Kishore, Course Coordinator, IIT Kharagpur**

Prof. Dutta welcomed all the participants present at various remote centres and emphasized on the importance of core subject like Power System.

Prof. N. K. Kishore, conducted an introductory session**.** He gave an overview of the course and spoke about the history and current trends of Electrical Engineering.

Prof. Bandyopadhyay took a session on **"Power System Steady State Operation".** He discussed about Power Quality, Power Quantity, Power System States, Transmission lines, compensation, and benefit of FACTS technology. He also discussed Schedule Generator Powers and other controllable parameters to meet the economic objective of Power System.

Later, **Prof. Soman** delivered a lecture on **"Power flow analysis and power transfer capability"**. He discussed the study of Power flow and made participant understand the calculation of power flow with an example. Further in his lecture, he discussed about the INDIAN POWER SYSTEM, and explained about transmission line (66kV and above): Installed capacity (330 GW) and Peak Demand. **Prof. Soman** ended the session with an explanation of Reliability Margins.

The last session of the first day was presented by **Prof. Bandopadhyay** on **"Symmetrical Faults".** During this session, he discussed the various types of faults that occur in transmission lines and its method to detect the faults.

Day 2: 11th July 2017

Prof. Gautam Bandyopadhyay discussed "**symmetrical components"** and explained its basics. He also explained unsymmetrical fault, phase shift of symmetrical components in star - transformer, phase shift of voltage phasor, calculation of power using symmetrical components, complex power in terms of phase. He took numerical examples of **NPTEL lectures (IIT Kanpur)** and explained how voltage drop occurs in the transmission network due to flow of unbalance current. At the end of the session, he explained about the protection against unbalanced current, effect of unbalanced voltage at single phasing, and sequence reactance of system component.

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Prof. S. A. Soman started the second session at 11:15 AM and explained the basics of 3-Ø transformers, different type of phasors for the star and delta connected transformer, and various faults that occur in the transformers.

3rd and 4th session of the day was delivered by **Prof. Gautam Bandyopadhyay** on **"Unsymmetrical Faults".** During this session, he discussed the various faults in transmission lines, He explained the various methods to detect the line faults, Faults on unloaded generator, line faults between different phases, line faults with two different phase short circuited and grounded. He also explained how an unsymmetrical fault can be calculated for loaded generator. Finally, he ended the lecture by explaining several numerical problems.

Day 3: 12th July 2017

Prof. S. A. Soman described the background of transmission system. He explained, why **Phase Shifting Transformer (PST)** is needed in a transmission line?

Prof. G. Bandyopadhyay conducted a session on **"Power System Protection".** He discussed the classification of relays (such as magnitude relay, directional relay, ratio relay, differential relay pilot relay and travelling wave based relay) based on logical design and hardware, requirement of high speed relaying, differential protection, and importance of line protection.

The third session of the day was presented by, **Prof. S A Soman** on **"Phase shifting transformer".** During this session, he discussed the construction and principle of PST.

Prof. Gautam Bandyopadhyay delivered a lecture on **"Advance Power System Protection"**. He discussed Pilot Protection with a schematic diagram of phase comparison carrier current protection.

Day 4: 13th July 2017

Prof. N. K. Kishore, started the first session of the 4th day with **"Motivation Exercises"**. He explained the uses of 3-phase and poly - phase, standard voltages like 132KV/220KV. While conducting a session on Product Development Cycle, He explained about steady state of art, break into component and analysis, defined requirement and synthesis, developed prototype and test in laboratories.

Prof. N.K. Kishore delivered a lecture on **"Application of software for Power System Analysis".** During this session, he introduced Power World Simulator Software and explained how to use the software, and different tools being used to determine the power flow. He also, described how to design a problem of power system in power world simulator software. All the participants designed the same problem and completed the simulation.

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Prof. N. K. Kishore took a power system problem and simulated it on Power World simulator software.

Mr. Narayanan R, Business Analyst, TCS, Chennai delivered a lecture during 4th session on **"Application of ICT in Power System Operation"**. He discussed about the interaction plan, and traditional utility model; Evolution of grid model with customer engagement, DER penetration and digital technology; Architecture, OT-IT-ET system Integration; Tools for implementation, and process approach. He further explained about different technologies such as, **IT (Information Technologies), OT (Operation Technologies)** and **ET (Energy Technologies)**. He also, discussed various challenges in OT Controllability; **OT Integration; and Common Integration Model (CIM).**

Day 5: 14th July 2017

Participants were given a **Quiz** to test their learning from the workshop. It consisted of 30 objective questions of 3 marks each.

Prof. N K Kishore conducted the 2nd session of the day on **"Overview of a Laboratory Course on Power Systems".** In this session, he discussed how laboratory courses are supplements to theory courses and must be run parallel. He also discussed the distribution of labs in a semester and the safety instructions to be kept in mind. He explained about various sources of energy, sub stations, protection and supplements in power systems.

The 3rd and 4th session of the day was presented by **Prof. S. A. Soman** on **"Introduction to Power Exchange".** During his session, he talked about various power exchange products viz. day ahead market, term ahead market and renewable energy certificates trading. He then moved on to discuss about bid order structures in market i.e. block bid, linked block bid and flexible hourly bid. He explained the market equilibrium and social welfare via various graphical visualizations and hourly bid matching through Lagrangian functions.

Prof. S. A. Soman continued his lecture on **"Introduction to Power Exchange"** during the 4th session. He then explained the need of block bids with another example and its problems. The participants were educated about the enumeration and heuristic solution approach and MILP approach.

Day 6: 15th July 2017

Prof. N. K. Kishore delivered a lecture on **"Renewable Energy Conversion Transmission and Storage".** He discussed how to solve any problem; break into components first, representation **(Mathematical, Circuit representation, EM), Analysis (Performance, Efficiency), Synthesis (Inverse),** Design and finally Prototype. He also discussed some **National Energy Policies (Niti Ayog), Security of energy and some Renewable Energy resources.**

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Prof. Kannan M Moudgalya, Professor, Chemical Engineering Department, **IIT Bombay** started the second session at 11:15 AM on **"SciLab".** He started the session by introducing the SciLab and uses of Open Source Software. He also discussed the benefits of SciLab which is freely available.

Valedictory session started at **2:00 PM** on **15th July 2017.** During valedictory, following distinguished guests were present.

1. **Prof. Raja Datta, Principal Investigator, IIT Kharagpur**
2. **Prof. Pranab Kumar Dutta, HOD, Department of Electrical Engineering, IIT Kharagpur**
3. **Prof. N. K. Kishore, IIT Kharagpur**
4. **Prof. S. A. Soman, IIT Bombay**
5. **Prof. Shailendra Kumar Varshney, Associate Professor, Dept. of Electronics & Electrical Communication Engineering, IIT Kharagpur**

They congratulated all the participants and the team of **T10KT** for their successful conduction of the workshop. He also sought feedback for the workshop from the participants.

At **Dronacharya Group of Institutions, Greater Noida, Prof. (Dr.) Ashish Soti, Director, DGI, Greater Noida** presented the Provisional Certificate to the participants of the workshop and thanked them for sparing their precious time for the program and hoped that the workshop had been very fruitful for them. He urged the participants to implement the teaching in their classroom.

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Link of the Event: https://gnindia.dronacharya.info/events/STTP_2017.aspx?Month=Jul&Year=2017

Name of the event: Seminar on Overview of Structural Engineering

Date of the event: 25th August, 2017

No. of Participant:47

Summary of the event: Department of **Civil Engineering, Dronacharya Group of Institutions, Greater Noida** organized a Seminar on **"Overview of Structural Engineering"** under the aegis of **AGI (Association of Geospatial Industries)** on **25th August 2017**. 47 students of Civil Engineering Branch attended the Seminar. **Mr. Alok Kumar Gautam**, Technical Advisor and **Mr. Keshav Kumar,** Sr. Business Executive of **Global Engineering Research & Development Centre** conducted the seminar.

Mr. Keshav Kumar started the session with an explanation of Structural Engineering, Transportation Engineering, Environment Engineering and Project Management Softwares. He discussed the basic concepts of structures and various types of loads which are critical for research and development.

Mr. Keshav Kumar emphasized on importance and implementation of following softwares packages:

Structural Engineering:

1. **STAAD-Pro**
2. **ETABS**
3. **AUTO CAD**

Transportation Engineering:

1. **Civil 3D**
2. **MX Road**

Environmental Engineering:

1. **Water GEMs**
2. **Sewer GEMs**

Project Management

1. **Primavera**
2. **MS Project**

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The various aspects of STAAD Pro and Auto CAD were discussed in detail.

The Seminar highlighted the importance and application of softwares in Designing and Product Development in various civil engineering fields.

The session was very informative and helped the students to understand the features and applications of the software to a greater depth.

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Link of the Event:
https://gnindia.dronacharya.info/events/SeminarStructuralEngineering.aspx?Month=Aug&Year=2017

Name of the event: "MAKE" PROJECTS & INTERACTION WITH KEY DIRECTORATES OF INDIAN ARMY
India Habitat Centre, New Delhi

Date of the event: 12 August, 2017

No. of Participant:2

Summary of the event: The provision of **'Make'** procedure is a vital pillar for realizing the vision behind Make in India initiative. During the past one year, the Indian Army has carried out a series of detailed interactions with private industry and academia to identify their existing potential towards defense technology, R&D and production.

As a step in this direction, a seminar on **'MAKE'** projects for Indian Army was held on **12 Aug 2017** at **India Habitat Centre, New Delhi** jointly under aegis of **Indian Army** and **CII (Confederation of Indian Industry).**

The seminar was attended by Senior Officers of the Army as well as officers from **Ministry of Defense (MoD). Yogendra Pratap Singh** and **Durgesh Kumar,** Students of Mechanical Engineering Department, **Dronacharya Group of Institutions, Greater Noida** attended the seminar.

Lt Gen SK Patyal, UYSM, SM, Deputy Chief of Army Staff (P&S) delivered the Key Note Address on **'Make- A Pragmatic way to Indigenization'.**

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With regards to the indigenization, **Lt. Gen. Patyal** mentioned that the national focus, today, towards the indigenization is in the form of '**Make in India**' initiative. He said that capability development is vital for any organization for its growth. The discussion was focused on exploring different approaches to make sustainable capability development keeping indigenization core mantra within.

Mr Rajinder Singh Bhatia, Chairman, Systems and President & CEO (Defence & Aerospace), Bharat Forge Limited spoke on '**Make- Industrial Capability and Way Ahead**'.

During the course of the seminar it was announced that the Army has identified 10 projects under '**Make**' category for manufacturing by domestic defence industry. These projects include:

1. **125 mm smooth bore barrel with gun article,**
2. **Improved ammunition for T-72 and T-90 tanks,**
3. **1000 HP engines for T-72,**
4. **Individual Under Water Breathing Apparatus,**
5. **Environment Control Unit and Auxiliary Power Units for T-90 tanks**
6. **Advanced Pilotless Target Aircrafts,**
7. **Maneuverable Expendable Aerial Targets,**
8. **Tracked Light Dozers,**
9. **Assault Track Way and Modern Aircraft Refueling Pump.**

A detailed deliberation on the Army's Make Projects was carried out in the seminar and provided a clear understanding of technical requirement of armed forces products and projects to be taken by indigenous industry to fulfill goal of self-reliance.

The session ended with a vote of thanks by CII Organisers.

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Link of the Event:
https://gnindia.dronacharya.info/events/MAKEProjects_2017.aspx?Month=Aug&Year=2017

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Name of the event: Round Table Conference on 'Green Building - A Business Opportunity' India Expo Centre & Mart, Greater Noida

Date of the event: 11th August, 2017

No. of Participant:10

Summary of the event: Students of the MBA Department, **Dronacharya Group of Institutions, Greater Noida** visited India Expo Centre & Mart on **August 11, 2017** to attend a Round Table Conference on '**Green Building- A Business Opportunity'.**

Speakers

1. **Shri Rakesh Kumar, Chairman, IEML**
2. **Mr. Sameer Gupta, Chairman, IGBC Lucknow Chapter & Managing Director, Jackson Limited**
3. **Shri Anand Kumar, Chief Guest, IAS, Hon'ble Secretary, MNRE, Govt. of India**
4. **Mr. Sachin Sachdev, Founder Director, Vyom**
5. **Mr. Vivekanand Ramesh, Vice President Corporate, Ojas Group**

Mr. Gupta delivered the Welcome Note andstressed on **IGBC's (Indian Green Building Council)** initiative spearheading the Green Building movement in India. He stressed upon the use of unconventional sources of energy.

Mr. Sachdev focused on Net Zero on Green Building Design. He also shared his views on Efficient and Economical Designs for Green Building.

Mr. Vivekanand Ramesh explained the concept, mission and vision of Ojas and shared various facts about the companies' achievement in last decade. He also explained the fundamental of Green Buildings.

After the session the students visited the India International Mega Trade Fair which was under way in the ground floor of IEML.

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Link of the Event:
https://gnindia.dronacharya.info/events/GreenBuilding_2017.aspx?Month=Aug&Year=2017

Name of the event: Motivational Seminar-Laying the Foundation for Successful Career

Date of the event: 29th September, 2017

No. of Participant:88

Summary of the event: **Dronacharya Group of Institutions, Greater Noida**, organized a **Motivational Seminar "Laying the Foundation for Successful Career"** on **29th September 2017** for the students of CSE, CSIT & IT Branchof Applied Sciences & Humanities Department. The seminar was conducted by **Dr. Anil Sethi**, a renowned Philosopher and Motivational Speaker.

The session started with the Welcome Speech of **Prof. (Dr.) Ashish Soti**, **Director, DGI, Greater Noida.**

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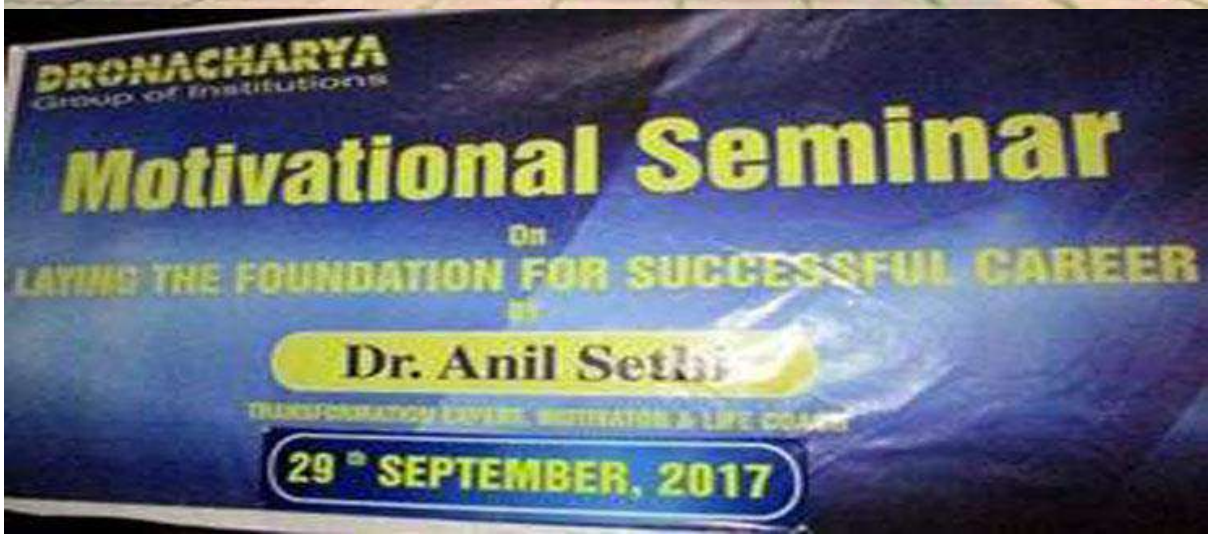
During his session, **Dr. Sethi Sethi** emphasized the value and importance of parents who work as torch bearers in guiding the lives of their wards. **Dr. Sethi** presented various inspirational videos showing examples from real life. Guided them with the ways to cope up from failures and how to stand up again and aim higher for success.

Dr. Sethi motivated students through interesting stories, audio videos, motivational songs, clippings and real life experiences. **Dr. Sethi** also delivered an energetic speech on the art of motivation. He discussed the impact of positive thinking on the culture of an organization.

The Seminar concluded with the presentation of Memento to **Dr. Anil Sethi** by **Hon'ble Director, Prof. (Dr.) Ashish Soti.**

The program ended with Group photographs.



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Link of the Event:
https://gnindia.dronacharya.info/events/Motivational1Seminar_2017.aspx?Month=Sep&Year=2017

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Name of the event: Seminar on North - East Infrastructure Conclave 2017

Date of the event: 23rd September, 2017

No. of Participant:6

Summary of the event: **Confederation of Indian Industry (CII)** organized **"North East Infrastructure Conclave 2017 - Creating Vibrant Economic Corridors through Improved Connectivity and Providing Innovative Logistics Solution"** at **The Silver Oak Hall, India Habitat Centre, New Delhi** on **23rd Sept 2017**. Faculty members from Civil Engineering Department of **Dronacharya Group of Institutions Greater Noida**: **Ms. Krishna Goala**, **Mr. Suhash Ranjan Banerjee** and **Mr. Navdeep Agrawal** along with students from CE-Vth Semester: **Sandipan Samanta, Naveen Chaturvedi, Sudhakar** and **Rohit Pal** attended seminar.

The event was inaugurated with the traditional lighting of lamp and was graced by several dignitaries:

1. **Dr. Jitendra Singh, Union Minister of State, Ministry Development of the North Eastern;**
2. **Mr. Pradeep Bagla, Co Chairman, CII North East Core Committee;**
3. **Mr. Naveen Verma, Secretary, Ministry of Development of the North Eastern Region**
4. **Mr. Amit Gossasin, Chairman, CII North East Core Committee on Infrastructure**
5. **Ms. Nita Karmakar, Regional Director, CII East & North East**

The aim of the conclave organized by **Confederation of Indian Industry (CII)** was to discuss the issues regarding infrastructure development in **North Eastern region of India,** The key areas needs to be focused for sustainable growth, explore the tourism, hospitality and many other opportunities. The opportunities which could be offered by adopting **Public-private partnership (PPP)** model and to forge partnerships for quick and effective results were also discussed.

Besides, the focus was on developing the actionable agenda for addressing the infrastructure issues and emerging role of private sector in the North East region. Experts from various fields presented their views and interest to the concerned matter of North-East region:

The event focused on strategic infrastructure development for connecting the eight sisters of North-East for a robust economic corridor through roads, railways, inland water transport and aviation. The highlight of the event was how regional connectivity would create sort of a ripple effect and would impact the employment generating sectors such as tourism and logistics.

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The conclave had a session on **Public Private Partnership (PPP)** models on infrastructure in the region and its viability for development of physical infrastructure, especially in the three critical sections – road, railways and aviation. Presently infrastructure development in the region is mainly through central government funding.

Seminar came to an end with discussion on the scope and challenges for implementing the PPP model in the North East with sharing of best practices across the country that can be used in the region.

Link of the Event:
https://gnindia.dronacharya.info/events/InfrastructureConclave_2017.aspx?Month=Sep&Year=2017

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Name of the event: One - Day workshop on "Android Application Development"

Date of the event: 22nd September, 2017

No. of Participant:40

Summary of the event: A one day workshop on **"Android Application Development"** was organized by **DGI-CSI Student Chapter** at **Dronacharya Group of Institutions**, **Greater Noida** on **22nd September, 2017. Mr. Yash Yogi**, Technical Manager from **ArdroIT Software Pvt. Ltd.** assisted by four other members of his team, **Mr. Yatin Yadav** (IOS Lead & Sr. Android Developer), **Mr. Lakshay Juneja** (Sr. Android Developer), **Mr. Sushant Jugran**(IOS Developer & Alumni of DGI) and **Ms. Priyanka Bindal** conducted the workshop. **39 students** from B-Tech 2nd Year CSE attended the session.

Starting the session **Ms. Priyanka Bindal** explained the latest developments in Android.

Mr. Yash conducted the training session on **JAVA Programming** as well as on **Application of JAVA in Android.**

Mr. Yatin Yadav and **Mr. Lakshay Juneja** conducted the session on **"How to design the layout in android using XML and JAVA"**. The students designed app in their mobile during the session.

The workshop ended with the Vote of Thanks proposed by **Dr. Somnath Sinha,** Assistant Professor, Department of Computer Science & Engineering, **DGI, Greater Noida**.

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Link of the Event:
https://gnindia.dronacharya.info/events/AndroidApplication1_2017.aspx?Month=Sep&Year=2017

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Name of the event: Workshop on Solidworks and ANSYS

Date of the event: 21st September, 2017

No. of Participant:56

Summary of the event: A **workshop on Solidworks and Ansys** was organised by Department of Mechanical Engineering in Association with **DGI SAEINDIA Collegiate Club,** on **21st September 2017**. The workshop was conducted by ScheDio CAD Solutions Private Limited.

The objective of the workshop was to make students familiar with:-

1. **The technological advancement in Modelling software and applications of the software in manufacturing industries.**
2. **Developing skills in design and analysis of machine elements and mechanisms in Solidworks and ANSYS.**

55 students of B. Tech, Mechanical Engineering V & VII semester attended the workshop which was coordinated by **Mr. Ajay Chaubey,** Assistant Professor, Department of Mechanical Engineering. **Mr. T.K. Gupta, Senior Design Engineer** and **Mr. Shashi Kant, Regional Trainer, ScheDio CAD Centre** were the resource person for the workshop.

Prof. D.V.Bhise, HOD, Mechanical Engineering Department welcomed the guests and enumerated the importance of drawing and design in Mechanical Engineering and asked students to take benefit of the workshop.

Mr. T.K. Gupta started the session with an introduction on how to develop the skills for better designing of machine elements in Solidworks. He designed and demonstrated 2D and 3D component drawing in Solidworks. **Mr. Gupta** also discussed about features and applications of NX UG software in industries. With the help of NX UG, modification in any 3D Model can be done easily, as compared to other software like Creo, Pro-E etc.

During the next half of the session **Mr. Shashi Kant** described **Finite Element Method-Analysis** tool used in Ansys software. He also discussed Fundamentals of Ansys, Failure Analysis Theory and FEM concepts.

Mr. Kant said that the **Finite Element Method** (FEM) is a numerical technique for finding approximate solutions to boundary value problems for partial differential equations. The Finite-Volume Method (FVM) is a method for representing and evaluating partial differential equations in the form of algebraic equations.

The outcome of the training workshop was the familiarisation of basic design concepts along with their applications in manufacturing industries to the students.

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The Workshop came to an end with the Vote of Thanks proposed by **Prof. D V Bhise, HOD, Mechanical Engineering Department.**

Link of the Event:
https://gnindia.dronacharya.info/events/Workshop_Solidworks_2017.aspx?Month=Sep&Year=2017

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Name of the event: Workshop on Virtual Lab

Date of the event: 15th September, 2017

No. of Participant:88

Summary of the event: **A workshop** on **Virtual Laboratories** was organized by **Dronacharya Group of Institutions Greater Noida** in association with **IIT Delhi** on **15th September 2017.**

Mr. Mohak Kaushik and **Ms. Divya Priya,** Field Engineer, IIT Delhi V-Lab Centre were the resource persons for the workshop. Faculty members **Mr. Ajay Chaubey** and **Mr. Suman Dutta,** coordinated the workshop which was attended by 86 students of First Semester CS and IT branch.

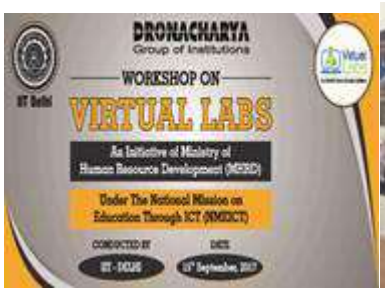
The aim of the workshop was to create awareness on the utilization of web-based experiments among the students and enhance their learning outcome through simulations and visualization techniques.

Prof. D.V. Bhise, Virtual lab Coordinator, DGI Greater Noida welcomed the guests and highlighted the importance of hands on practice in engineering education and correlated it with conducting experiments virtually.

Mr. Mohak Kaushik provided a crystal clear concept on Virtual Laboratories through demonstration i.e. Chemistry, Electrical Circuit Computer Lab etc. Through this demonstration, students got the feeling of performing experiments in a virtual environment. Students and were taken to different computer labs for hands on practice. The transition from data to information, knowledge and wisdom was very well conveyed.

Ms. Priya included the outlining of the **"conceptual"** inception and the content of experiments that can be utilized for demonstration. The deployable virtual laboratory experiments were well understood by the participants.

The workshop concluded with the presentations of mementoes to the guests as a token of appreciation.



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Link of the Event:
https://gnindia.dronacharya.info/events/WorkshopVirtual_2017.aspx?Month=Sep&Year=2017

Name of the event: Motivational Seminar on Laying the Foundation for Successful Career

Date of the event: 15th September, 2017

No. of Participant:325

Summary of the event: **Dronacharya Group of Institutions, Greater Noida,** organized a **Motivational Seminar-** "**Laying the Foundation for Successful Career"** on **15th September 2017** for (2017 - 2018) Batch students. The seminar was conducted by **Dr. Anil Sethi,** a renowned Philosopher and Motivational Speaker.

The session started with the Welcome Speech of **Prof. (Dr.) Ashish Soti, Director, DGI, Greater Noida.**

During his session, **Dr. Sethi** threw light on the importance of honesty and gratitude. He explained the values of teachers and parents in ones life and how by being humble one can grow to greater heights. The session was very inspiring for the students.

Dr. Sethi motivated students through interesting stories, audio videos, motivational songs, clippings and real life experiences. **Dr. Sethi** also delivered an energetic speech on the art of motivation. He discussed the impact of positive thinking on the culture of an organization.

The Seminar concluded with the presentation of Memento **to Dr. Anil Sethi** by **Hon'ble Director, Prof. (Dr.) Ashish Soti.**

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Link of the Event:
https://gnindia.dronacharya.info/events/MotivationalSeminar_2017.aspx?Month=Sep&Year=2017

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Name of the event: Workshop on "Introduction to Cryptography"

Date of the event: 13th September, 2017

No. of Participant:120

Summary of the event: A Workshop on **"Introduction to Cryptography"** was organized by **Dronacharya Group of Institutions, Greater Noida** on **13 September 2017** for First Semester students. The Workshop was organised in association with DGI-IEEE Student Chapter. **Prof. (Dr.) Rajendra Kumar Sharma, Department of Mathematics, IIT Delhi conducted the Workshop.**

The session started with the welcome of **Prof. (Dr.) Rajendra Kumar Sharma,** by **Prof. Asish Soti, Director- Dronacharya Group of Institutions, Greater Noida.**

Prof. Sharma commenced the lecture the basic introduction of Cryptography. He discussed how cryptography is related to Mathematics as well as various fields of Engineering specifically Computer Science. He said that Cryptography is used to convert **plaintext** into **ciphertext** and vice-versa. This is known as **Encryption** and **Decryption**.

Prof. Sharma made the session interactive with Quizzes and Puzzles. He also explained the concept of ciphers and modulars.

The Workshop concluded with the Vote of Thanks by **Dr. Mamta Tomar,** Associate Professor, Department of Applied Sciences & Humanities.

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Link of the Event:
https://gnindia.dronacharya.info/events/Cryptography_2017.aspx?Month=Sep&Year=2017

Name of the event: Seminar on "Financial Literacy and Investor Awareness Mission"

Date of the event: 06th October, 2017

No. of Participant:40

Summary of the event: **Department of Management Studies, Dronacharya Group of Institutions, Greater Noida** organized an Awareness Session on **"Financial Literacy and Investor Awareness Mission" on 6th October 2017**. 40 students of B-Tech and MBA attended the Seminar which was conducted by **Dr. P. K. Verma,** an associate of SEBI.

Dr. P. K. Verma started the session with an explanation of **SEBI, Systematic Investment Plans (SIP),** its benefits, merits and demerits. He discussed the basic concepts of Fundings, Investment, Investment Plans, Mutual Funds, Black Money and the Structure of Security Market in India

Dr. Verma emphasized on the importance and implementation of the structure of money market in India and also discussed various aspects of:

1. **SEBI versus Security Market in India**
2. **Functions of SEBI**
3. **Stock Market**
4. **SIP in Mutual Funds.**
5. **Mode of security for loan purpose**
6. **Ponzi Schemes**
7. **The Financial Planning Process**

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The Seminar highlighted the importance and application of **Stock Market.**

The session was very informative and helped the students to understand the features and applications of the various investment plans and ended with a vote of thanks by **Hon'ble Director, DGI - Dr. Ashish Soti.**

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Link of the Event:
https://gnindia.dronacharya.info/events/FinancialLiteracy.aspx?Month=Oct&Year=2017

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Name of the event: Seminar on "Digital India Initiatives & Cyber Security Challenges"

Date of the event: 6th October, 2017

No. of Participant:50

Summary of the event: A one day seminar on **"Digital India Initiatives & Cyber Security Challenges"** was organized by Department of Computer Science Engineering/Information Technology in association with **DGI-CSI Student Chapter** at **Dronacharya Group of Institutions**, Greater Noida on 6th October, 2017. **Mr. Satish Kumar Khosla**, Fellow-CSI and VP Global IT Services, Qualfon Inc. was the Guest Speaker for the session. 50 students from B-Tech CSE attended the session.

The session started with the welcome of **Mr. Khosla by Prof. (Dr.) Ashish Soti, Director,** Dronacharya Group of Institutions, Greater Noida.

Mr. Khosla started with the discussion on the initiatives being them about the Digital Transformation by Govt. of India. He explained that increasing use of Smartphone, Social Media, Emails, Cloud Computing Services, other application of technology for Education, Health, Financial Institutions, Justice, Farmers will make this transformation easier.

Mr. Khosla mentioned different aspects of cyber security threats and their categories i.e. **Crime, Hacktivism, Espionage and War**. He stated that Cyber Security Framework by **National Institute of Standards and Technology's (NIST)** and the core component of the framework which contain **Identity, Protect, Detect, Respond and Recover.** Four Tiers of the framework **Partial, Risk Informed, Repeatable and Adaptive** were also explained by him.

He discussed the future of IoT in India and the aspect of **Modern Cryptograph** which is a mix of mathematics, computer science and electrical engineering.

The session conducted by Mr. Khosla motivated the students towards the newly emerging field of **Modern Cryptography** and the security related issues.

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Link of the Event:
https://gnindia.dronacharya.info/events/DigitalIndiaInitiativesCyberSecurity.aspx?Month=Oct&Year=2017

Name of the event: CII- International Conference on PPP MODEL FOR WASTE TO WORTH PROJECTS The Grand, New Delhi

Date of the event: 30th November 2017

No. of Participant:2

Summary of the event: **Confederation of Indian Industry** organized an International conference on **"PPP Model for Waste to Worth"** on **30th November 2017** at The Grand, New Delhi. The objective of the conference was to create awareness about sustainable solid waste management initiatives and to avoid practice for landfill sites. Conference also aimed to promote the reuse and recycle of disposal waste.

The event began with the floral welcome of **Mr. Hardeep Singh Puri, Hon'ble Minister of Housing and Urban Affairs** and **Mr. Mahesh Babu (Co-chair, CII Task Force on Waste to Worth).**

Mr. Vinod Kumar Jindal (joint Secretary, Ministry of Housing and Urban Affairs) and Dr. Bindu Dey (Secretary, Technology Development Board) addressed the gathering during the inaugural function.

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During her key note address on **"Circular Sanitation Economy"**, **Ms. Cheryl Hicks, Executive Director, Toilet Board Coalition, Switzerland** said that they have created a global platform for partnership.

Chief Guest Mr. Puri stressed upon Prime Minister Narendra Modi's flagship cleanliness drive **"Swachh Bharat Abhiyan"**. He talked about the initiatives taken by the Central Government towards cleanliness by giving star rating to all cities of India on different cleanliness parameters. He also focused on solid waste management and urged all the global leaders in the gathering to make right use of the platform and give some concrete results on how wings can be given to "Swachh Bharat Abhiyan" program.

There were presentations by international delegates who talked about their respective country's initiatives in solid waste management. They also emphasized on how they are converting their waste into useful energy with the help of different mechanism.

Representatives included:

- **Mr. Christian Trulley, Business Development, Siemens Ltd (European Perspective),**
- **Mr. Robert Jans, Director, Ekolog (Polish Perspective),**
- **Mr. Osten Ekengren, Executive Vice President, IVL Svenska Miljoinstitutet (Swedish Perspective),**
- **Mr. Fabian Weingart, Director, TII India (German Perspective).**

Mr. Vinay Maheshwari (President, JBM Ltd), Mr. Sundeep Kumar (Sr. Vice President, IL&FS Environmental Infrastructure& Services) and Mr. Ulhas Parlikar (Head & Director, Geocycle India-ACC) emphasised on waste generation rate and its composition which is in the form of food, garden, paper, wood, textiles, nappies, plastics etc.

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Link of the Event:
https://gnindia.dronacharya.info/events/InternatipnalConferencePPPmodal.aspx?Month=Nov&Year=2017

Name of the event: Eight Day Faculty Development Program (Advanced Workshop, Level-2) under TEQIP III on Universal Human Values and Professional Ethics Organised by Dr. A P J Abdul Kalam Technical University, Lucknow

Date of the event: 30th November 2017 to 7th December 2017

No. of Participant:1

Summary of the event: An Eight Day Advanced Workshop on **Universal Human Values and Professional Ethics** was organized under **TEQIP-III** by **Values Education Cell**, **Dr. A.P.J. Abdul Kalam Technical University** Lucknow at **Ajay Kumar Garg Engineering College**, Ghaziabad during 30 November to 7 December 2017. **Ms. Ragini Tiwari** from Dronacharya Group of Institutions, Greater Noida along with 32 participants from various other colleges attended the Workshop.

The objective of the workshop was to identify the problems and challenges being faced by the people at individual, family, society and environmental levels and the ways to handle them. The workshop was conducted by **Mr. Bhanu Pratap Singh, Coordinator, Value Education Cell, AKTU, Lucknow.**

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Day 1: 30th November 2017
The FDP was inaugurated by **Dr. R.K. Agarwal, Director AKGEC,** Ghaziabad on 30/11/2017.

Mr. Shashank Sahu, Coordinator, shared his views on the importance of Human Values briefly and explained it with reference to:

- **Natural Acceptance**
- **Peace of Mind**

During the workshop, issues related to happiness, welfare, aspirations, goals and success in life were explained. The need of self-exploration, **self-investigation** and **how to practice** them in daily life were also explained.

The last session of the day was a group discussion on **"Sources of Happiness".**

Day 2: 1st December 2017
Mr. Bhanu Pratap Singh discussed the concept of **"Develop Right Understanding".** He said that the awareness of thought reading in continuation is necessary to maintain good relationship in the life. He stressed that the role of education is to facilitate the development of the competence and to live with proper human conduct.

Later, a Group Discussion was held on **Desire of Self** (to be in Harmony).

Day 3: 2nd December 2017
Mr. Singh focused on the concept of Justice. He described the feeling of justice with five factors:

- **Self (Continuous Happiness)**
- **Individual Human Being (Co-existence of Self & Body)**
- **Family (Feeling of Co-existence)**
- **Nature (Mutual Fulfillment)**
- **Existence (Co-existence)**

Mr. Singh emphasized on the word **Gyan (Knowledge)** and explained it as **"To see the reality as it is and its completeness".**

Day 4: 3rd December 2017
The session was dedicated to **Form, Property, Natural Characteristics, Innateness and Co-existence.** Mr. Singh explained them in detail.

Day5: 4th December 2017
Mr. Singh discussed **Units** and **Space**. He said that Human Beings, Animals, lumps of Matter as well as various Atoms and Molecules, are all units as we can recognize them as they are countable. Whereas, space is not a unit but it exists, as a reality. It is the empty area all around the nature is space.

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Day 6: 5th December 2017

Mr. Singh discussed the **Theory of Desire, Thought, and Expectation (DTE).**He stated that the right understanding gained through self-exploration enables us to identify the definitiveness of human conduct which may also be called the **Ethical Human Conduct**. It is same for all human beings.

Day 7: 6th December 2017

Mr. Singhfocused on the five orders of the Unit at self-level:

- **Shape(Unit)**
- **Thought (Awareness)**
- **Behavior (Natural Acceptance)**
- **Work (Harmony in continuation)**
- **Realization(Submerged and Self Organized in Co-existence)**

He later discussed on **Mulya (Contribution)** and explained five mulyas in our life:

- **Jeevan Mulya**
- **Manav Mulya**
- **Sthapit Mulya**
- **Shist Mulya**
- **Vastu Mulya**

Day 8: 7th December 2017
Valediction Ceremony was held on **7th December 2017**. Participants gave their suggestions and feedback for the workshop. Certificates were awarded to the participants by **Prof. (Dr.) P K Chopra, HOD ECE / EI, T&P, Dean Spl Projects.**

During the closing ceremony, **Mr. Bhanu Pratap Singh** said that through the workshop, the effort was to bring into practice a strong teaching methodology of self-exploration that provides the essential guidelines for a human society for which a sustained effort and preparation is required.

The Workshop was beneficial for the participants who returned with the determination to apply the learning from the workshop in their lives and share it with their Students and Colleagues. Through Universal Human Values student can develop a holistic vision towards life and profession; and can enhance self-confidence. People can perform well academically, do well at their workplaces and at the same time participate for order in society.

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Dr. A.P.J. Abdul Kalam Technical University
Uttar Pradesh, Lucknow

Reference No. : 2L171102012

CERTIFICATE

This is to certify that MS. RAGINI TIWARI from (230) DRONACHARYA GROUP OF INTITUTIONS, GREATER NOIDA has attended the Eight-day Faculty Development Program (Advance Workshop, Level-2) on 'Universal Human Values and Professional Ethics' organized by TEQIP - III and conducted by Value Education Cell, AKTU, Lucknow at AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD From 30 Nov - 07 Dec 2017

G P Bagaria
Coordinator, VE Cell

Prof. Vinay Kumar Pathak
Vice-chancellor

Link of the Event:
https://gnindia.dronacharya.info/events/FDPUniversalHumanValues.aspx?Month=Nov&Year=2017

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Name of the event: MOTIVATIONAL TALK on "Science, Technology & Spirituality"

Date of the event: 13th November, 2017

No. of Participant:150

Summary of the event: **Department of Mechanical Engineering, Dronacharya Group of Institutions, Greater Noida** & **DGI-NSS Wing** organized a **Motivational Talk** on **"Science, Technology & Spirituality"** On **13th November, 2017.** The Talk was conducted by **Dr. Muralindran Mariappan** in association with Brahma Kumaries World Spiritual University. **Dr. Mariappan** is the Head of Robotics & Intelligent Systems (myRIS), Artificial Intelligent Research Unit of Malysia. He is also a Self-Empowerment Motivator and Meditation Teacher at **Brahma Kumaris, Malaysia.**

The purpose of workshop was to understand that Spirituality is understanding ourselves and the laws of universe through the tools of Science and Technology".

Hon'ble Prof. (Dr.) Ashish Soti, **Director, Dronacharya Group of Institutions, Greater Noida,** welcomed the guests **Dr. Mariappan and Sister Preeti.**

While discussing Science & Technology during his discourse, **Dr. Mariappan** said that it is a double-edged sword which can be used to help humankind and also to destroy it. He emphasized that we humans need to understand that it is not technology but humans using technology who apply it to cause harm.

Dr. Mariappan believed that Spirituality also helps us to have a compassionate view of nature. He said that when we think deeply and for a long time about anything, whether it is an idea or an object, then the brain has a tendency of focusing on it like a laser and in that process the object vanishes from the vision field and only its germ or the spirit remains.

While explaining the role of science, **Dr. Mariappan** said that is something that everyone can see with their physical senses, and a theory is a way of organizing those physical observations into a coherent structure. Subjective elements are disregarded because no one else can see (with their physical senses) what is going on inside a subject's head. Spirituality also recognizes that 'observers' exist, but instead of disregarding the subjective observer, spirituality delves inward to discover the nature of that observer. It deals with both the idiosyncratic differences and the universal commonalities of human nature, and tries to give people an orientation to the world, or moral compass, that allows them to live better lives as subjective selves.

Hon'ble **Director Prof. Ashish Soti** concluded the program with a very encouraging speech. He appreciated and praised the guests for the conduction of the event. He reiterated the importance of Science, Technology and spirituality in ones life.

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Prof. DV Bhise, HOD Dept. of Mechnical engineering proposed the Vote of Thanks.

The event was coordinated by students **Akanksha Pokhriyal and Divya Chaturvedi.**

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देशबन्धु

इंजीनियरिंग छात्रों को तकनीकी के साथ अध्यात्मिकता के प्रति किया प्रेरित

ग्रेटर नोएडा। द्रोणाचार्य ग्रुप ऑफ इंस्टीट्यूशंन्स में विज्ञान तकनीकी व अध्यात्मिकता पर प्रेरणापरक वार्ता का आयोजन किया गया, जिसमें मैकेनिकल इंजीनियरिंग विभाग के विद्यार्थियों ने हिस्सा लिया। इस कार्यक्रम में डॉ. मुरलीन्द्रन मरीयप्पन के साथ ब्रह्म कुमारी ईश्वरीय विवि शामिल हुआ। डॉ. मरियप्पन विभागाध्यक्ष रोबोटिक इंटलीजेन्ट सिस्टम, अफ्रिकन इंटलीजेन्ट रिसर्च यूनिट मलेशिया है, ये मलेशिया में स्व. रोजगार मोटिवेटर के साथ ब्रह्मकुमारीज मलेशिया में अध्यापन करते हैं। इस अवसर पर छात्रों को बताया गया कि अध्यात्मिकता को विज्ञान और तकनीकी के साथ जोड़ा जाए। इस अवसर पर प्रो. आशीष सोटी निदेशक द्रोणाचार्य ग्रुप ऑफ इंस्टीट्यूशंस ने अतिथि डॉ. मरियप्पन और सिस्टर प्रीती का स्वागत किया

Link of the Event:
https://gnindia.dronacharya.info/events/MotivationalTalk2017.aspx?Month=Nov&Year=2017

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Name of the event: Two Days Workshop on CNC Programming, Simulation and Operations on Turning Centre

Date of the event: 10th - 11th Nov. 2017

No. of Participant:75

Summary of the event: A two day workshop on "**CNC Programming, Simulation and Operations on Turning Centre"** was organized by **CoESM (Centre of Excellence for Smart Manufacturing), Department of Mechanical Engineering**, **Dronacharya Group of Institutions Greater Noida** in association with **PPDC-TDC MSME, Govt. of India** on **10th - 11th November, 2017** for the 3rd year students of Mechanical Engineering. **Mr. Ashish Ranjan ,CNC Trainer** from **DUCAT Noida** was the resource person for this workshop.

The objective of the workshop was to acquaint students about the use of **Computer Integrated Manufacturing** activities in industry and make them familiar with the working environment of CNC machines.

Day 1:
Prof. D V Bhise , HOD Mechanical, DGI Greater Noida welcomed **Mr. Ashish Ranjan.** He emphasized the importance of CNC machines and automation in the field of manufacturing. He also advised the students to attend the workshop with sincerity and reap advantage of doing hands on practice on CNC machines.

Mr. Ashish Ranjan started his session with **Introduction of CAD /CAE/CAM, Scope of Design, Role of Designer** in manufacturing industry and need of CAD/CAM**.** He explained the working and relation of CAD - CAM software. He also described various steps i.e. **Sketching, Modeling, and Analysis** in **Product Cycle**. He further explained the working of Computer Aided Manufacturing and uses of various codes for writing programs in **Automated Manufacturing**. He later explained the difference between **NC (Numerical Control), CNC (Computer Numerical Control) and DNC (Direct Numerical Control) machines.**

Following the concept of learning by doing, **Mr. Ashish** started the next session on simulation of CNC machines. He explained the basic controls of CNC turning machines on **FANUC 0iT version** of **Swan Soft NC simulation** software. Student learnt how to generate CNC program using **G codes and M codes** for doing machining operation e.g**. Facing, Step Turning, Chamfering, and Taper Turning** etc. on simulation software.

Day 2:

Second day started with the hands –on session where students were divided in groups. Each group wrote two programs, one each on turning and taper turning. These programs were tested for simulation errors and where ever needed modifications/alterations in the program were done.

In the next session **Mr. Ashish Ranjan** explained the basic operation on CNC Turning Center. He explained the functionality of Automatic

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Tool Changer (ATC), Pneumatic Gripper, Reference System Setting, Coolant On-Off Controls and Emergency Switches. After getting the basic information on how to operate the machine, students tested programs written by them on the machine.

During the workshop students learned fundamentals of CNC (turning) programming as well as learned how to operate the machine. The hands-on practice made sure that each student gets a chance to do coding practice and operate the machine successfully.

Workshop concluded with the award of Participation Certificates to the participants.

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Link of the Event:
https://gnindia.dronacharya.info/events/WorkshopCNCProgramming.aspx?Month=Nov&Year=2017

Name of the event: "WORKSHOP ON NC GUIDE SOFTWARE (CNC SIMULATOR)" In Association with Fanuc India Pvt. Ltd.

Date of the event: 3rd November 2017

No. of Participant:77

Summary of the event: A workshop on NC Guide Software (CNC simulator) was conducted by FANUC India Pvt. Ltd. at Dronacharya Group of Institutions, Greater Noida on 3rd November 2017. **Mr. Akshay Upare**, Deputy Engineer, FA Application and **Mr. Mayank Gupta,** Deputy Engineer, FA Sales from FANUC India Pvt. Ltd. were the resource persons for the workshop. The workshop was attended by Third Year Mechanical Engineering students and was coordinated by **Mr. Gaurav Siwal**, and **Mr. Ajay Chaubey,** Assistant Professor from Mechanical Engineering Department.

The objective of the workshop was to make students aware of the CNC simulators that are used for programing of CNC Turning and Milling Centers. Mr. Upare started the session with the introduction of FANUC as a world leader in Automation. He said that the software can be used as developmental tool by the designers to create customized screens and offline simulation and testing without any dedicated hardware. The FANUC CNC Simulator is based on the FANUC Series 0i - MODEL F platform and can be operated in either milling or turning configurations. Mr. Upare added that one can program the simulator as a 3-axis mill or a 2-axis/1-spindle turning system. The simulator is portable and requires only a standard wall outlet for power.

Mr. Upare further said that the Simulator is a complete FANUC CNC control with LCD monitor and a QWERTY keyboard. Students can experience the look, feel and layout of the control as they navigate and program a fully functioning CNC. Students can transfer the programs to the machines using the built-in Ethernet connections or standard Flash ATA or USB interface.

Mr. Gupta elaborated the use of simulator and explained how it can be is used for creation of part programs for Lathe Machining Centre and compound machines, Tool Path graphic display and 3D simulation display of finished components.

Mr. Upare then demonstrated the steps to operate and program the simulator. He displayed the simulation of few preloaded programs for Milling and Turning operations.

The workshop was very informative and gave a good glimpse of CNC and factory automation in Industry

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Link of the Event:
https://gnindia.dronacharya.info/events/WorkshopNCGuideSogtware.aspx?Month=Nov&Year=2017

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Name of the event: Seminar on "MATLAB and Simulink for Predictive Analytics, Signal Processing & Controls Applications"

Date of the event: 21st February 2018

No. of Participant:1

Summary of the event: A one day seminar on **"MATLAB and Simulink for Predictive Analytics, Signal Processing & Controls Applications"** was organized by **Mathworks** at **The Park, New Delhi** on **21th February 2018.**

Mr. Amit Jain, Asst. Professor, Electronics & Communication Engineering Department, **Dronacharya Group of Institutions, Greater Noida** attended the seminar.

The focus of the seminar was :

1. Predictive Analytics using MATLAB and Simulink
2. Image Processing and Computer Vision Using MATLAB
3. Signal Processing and Communications System Design
4. Design, optimize, and verify mechatronic systems
5. During the session they will demonstrate, using real-world case studies and how MathWorks solutions provide an integrated platform for system design and analysis.

Mr. Amit Doshi, Application Engineer, Mathworks started the session explaining Predictive Analysis and Signal Processing using MATLAB and Simulink. He explained how to apply artificial intelligence to any system. Then he explained various features of 2017b version of MATLAB and and its application. He discussed the difference between machine learning and deep learning.

The second session on Image Processing and Computer Vision Using MATLAB was conducted by **Mr. Rishu Gupta**, Application Engineer, Mathworks. He discussed the following topics:

1. Working with large images, image sets and videos
2. Image processing on 3D datasets
3. Machine learning and deep learning for images
4. Dataset labeling for learning algorithms
5. Implementing and prototyping algorithms on hardware

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Third and the last session focused on Control Application with the following topics :

1. Create custom components with Simscape language
2. Automatically tune parameters of components to meet system requirements
3. Run simulations in real-time for HIL testing
4. Model based design for Mechatronics system simulation using Simscape (Physical Modeling)
5. Multi-Body Dynamics Simulation using SimMechanics
6. Control system design and analysis
7. Demo of Magnetic Levitation system using Arduino

This seminar was quite informative and covered the emerging fields of Automation, Machine Learning and Signal Processing. Design and analysis of a mathematical model of a system is gaining importance, primarily due to understanding and accurately predicting complex systems, scenario testing, forecasting, optimizing system behavior and designing control systems. Students too can design their projects using Simulink and Simscape.

The seminar ended with informal meetings.

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Link of the Event:
https://gnindia.dronacharya.info/events/SeminarMATLAB_2018.aspx?Month=Feb&Year=2018

Name of the event: Faculty Skill Development Workshop on DRUPAL Conducted by IIT Bombay

In association with Dr. A.P.J. Abdul Kalam Technical University(AKTU).

Date of the event: 19th February 2018

No. of Participant:30

Summary of the event: **FOSSEE Center of Dronacharya Group of Institutions, Greater Noida** organized the **Faculty Skill Development Workshop on DRUPAL** which was conducted by **IIT Bombay** in association with **Dr. A.P.J. Abdul Kalam Technical University(AKTU), Lucknow**. The objective of the session was to spread awareness about Spoken Tutorial and Drupal in particular. Faculties from colleges affiliated to AKTU, RV Northland Institute, RV Northland Institute of Management, IIMT College of Engineering, Galgotias College, ITS Engineering College and Dronacharya Group of Institutions, Greater Noida participated in the Workshop.

The workshop was inaugurated by **Dr. Ashish Soti**, Hon'ble Director- Dronacharya Group of Institutions, Greater Noida. He emphasized on the importance of e-Learning resources and requested the participants to encourage students at their respective colleges to enroll, learn and get certified in various courses being offered through Spoken Tutorial.

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Mr. Harshit Bhardwaj gave an overview of Spoken Tutorial Project. He explained FOSS(Free Open Source Software) i.e., Drupal, SciLab, Latex, PHP & MySQL, Java, C/C++, LibreOffice etc. and compared their advantages with their commercial counterpart. Mr.Bhardwaj had recently attended the Faculty Induction Program at IIT Bombay conducted by Spoken Tutorial Team headed by Prof. Kannan M Moudgalya.

The technical session of **Drupal** was delivered by **Mr. Manoj Yadav**, Spoken Tutorial Coordinator, DGI. He explained the importance and features of Drupal. He explained how Drupal allows organizing, managing and publishing of content.

The practical session was conducted under the supervision of **Mr. Pratish Kumar Jha (CSE)** and **Mr. Manish Kala (CSIT)**. Both of them were recently selected by IIT as Intern and were trained on different FOSSEE Projects during the residential program.

They guided the participants to understand the features and installation of DRUPAL.

The workshop concluded with the distribution of participation certificates.

Ms. Shanti Makka (**HOD-CSE)** extended Vote of Thanks. She expressed her appreciation to the participants for successfully attending and learning during the workshop. She requested them to share the knowledge gained from the workshop in the larger interest of the student community.

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Link of the Event:
https://gnindia.dronacharya.info/events/FacultySkillDevelopmentWorkshop.aspx?Month=Feb&Year=2018

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Name of the event: Workshop on Microcontroller Design (MSP430) Organized by TEXAS INSTRUMENTS & AKTU Lucknow

Date of the event: 16th - 18th February 2018

No. of Participant:1

Summary of the event: **Mr. Amit Jain**, Assistant Professor, Department of Electronics and Communication Engineering,**Dronacharya Group of institutions, Greater Noida** attended the**"Three Days workshop on Microcontroller Design(MSP430)"** organized by AKTU-Texas Instrument during **16 - 18 February 2018** at **Anand Engineering College, Agra.** The objective of the workshop was to train the faculty members about MSP430 launch pad and help them perform various lab experiments which have been introduced for 2nd and 3rd year students of Electronics and Communication Engineering.

Day 1: 16 February 2018

The program started with the inaugural speech of **Prof (Dr.) Anil Kishore Saxena**, Director, Anand Engineering College. He shared his experience of embeded system development from his time to current scenario. Dr. Saxena said that industry oriented technologies and a state-of-the-art educational facility can help engineering students gain the technical expertise needed to become industry-ready when they graduate and go into the workforce. He expressed his happiness with the support rendered by Texas Instruments to build faculty capabilities at the university and the future initiatives that are planned for the students through this collaboration.

Mr. Rahul Agrawal, workshop coordinator welcomed all participants and trainer from Texas Instruments **Mr. Gaurav Prabhakar** and **Mr. Abdul Samad**.

The workshop started with an Introduction to **MSP430** series platforms, need for Low Power Systems, MSP430's **Internal Architecture, Clock Systems, Low Power Modes**, MSP430 Launchpad and its Peripherals, resources for MSP430 & **Interpreting Datasheets** were explained. It was followed by a demonstration on understanding **Low Power Modes** and measuring current consumption for a simple application.

Day one ended with distribution of MSP430 launch pad to every participant for performing hands on session.

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Day 2: 17 February 2018

Day 2 of the workshop was aimed at providing hands on experience to the participants on the MSP430 and its applications based on the newly introduced curriculum. In the interactive lab session, handouts of the manuals for the experiments to be conducted were distributed to the participants. All the participants performed the tasks and verified the results using MSP430 under the supervision of the designated trainers **Mr. Gaurav and Mr. Abdul Samad.** The session helped the participants :

1. Learn and understand how to configure MSP-430F5529 Launchpad digital I/O pins (blinking LEDs, push buttons interface)
2. Enabling Low power modes using Interrupt based programming
3. Configure the MSP430 Launchpad for Low Power Mode and measure current consumption both in active and low power modes.
4. Learn and understand how to configure the PWM module,Implementing Embedded Wi-Fi using CC3100 booster pack

Day 3: 18 February 2018

Day 3 started with hands on training and theory of timers, counters and their associated registers. Various codes of interfacing DC motor, Serial Communication Interface, UART programming and data logging applications were explained.

It was followed by the hands-on on **Master-Slave interfacing of MSP430**, using jumpers to connect pins of two launch pads. The participants then created their TI account and shared their design on it.

The workshop came to an end with a brief valedictory session followed by feedback from the participants.

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Link of the Event:
https://gnindia.dronacharya.info/events/Workshop_Microcontroller_Design2018.aspx?Month=Feb&Year=2018

Name of the event: Two day's Workshop on Introduction to Arduino

Date of the event: 14th - 15th March 2018

No. of Participant:42

Summary of the event: **DGI-IEEE Student Chapter, Dronacharya Group of Institutions**, Greater Noida under the banner of Department of Electronics & Communication Engineering and Electrical & Electronics Engineering in collaboration with **AdvanceTech India Pvt. Ltd.**, organized a **Two Day's Workshop on Introduction to Arduino** on **14th and 15th March 2018** at Dronacharya Group of Institutions, Greater Noida.

42 enthusiastic students of B. Tech 1st, 2nd, 3rd and 4th year from various departments of the institution participated in the workshop. The workshop was organized as a part of institution's continuous effort of devel oping project based learning attitude in students.

Day 1, 14th March 2018

The workshop was inaugurated with the welcome of **Mr. Gunjan Goyal**, Senior Application Engineer and **Mr. Ankit Mohan**, Senior Application Engineer, AdvanceTech India Pvt. Ltd. by **Prof. Ashish Soti**, Honorable Director and **Prof. B. L. Kaul**, Honorable Registrar and **Prof. Probeer Sahw**, Head, Department of ECE & EEE, Dronacharya Group of Institutions, Greater Noida. Prof. Soti graced the participants with his opening remarks, in which he asserted that students must be inquisitive and innovative to create a niche for themselves in the cotemporary, combative and ever-evolving industries and should begin working on projects from the initial year of engineering itself.

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Ms. Rasveen, Assistant Professor, Department of Electronics & Communication Engineering, then briefed the participants on the utility and applicability of the workshop followed by a review on DGI IEEE Student Chapterâ€™s activity by **Apratim Singh**, Student Coordinator.

Mr. Mohan then started the proceedings of the workshop. He said that Arduino is an open source computer hardware and software company, project and user community. The projectâ€™s products are licensed under the GNU Lesser General Public License (LGPL) or the GNU General Public License (GPL) permitting the manufacture of Arduino boards and software distribution by anyone. This helps in creating easy knowledge sharing platforms and rapid prototype development by community developers and students.

Mr.Mohan gave a detailed introduction of embedded system and Arduino with their educational and industrial applications. After familiarization with various microcontrollers, Arduino boards, their hardware description and various sensors, Mr. Mohan introduced Arduino's **Integrated Development Environment (IDE)** to the participants. He said that IDE is a cross-platform application written in the programming language Java and includes a code editor to compile and upload programs to an Arduino board. The participants then learned the basic syntax and programming structure of Arduino C/C++ program. Mr. Goyal helped the participants in installing IDE and with hands-on practice throughout the day and concurrently cleared their doubts. The day concluded after an extensive practice session on programming and controlling LEDs and seven segment displays through Ardunio.

Day-2, 15th March 2018

Day-2 started with remembrance of the legacy of and observing 2 minute silence in honor of **Prof. Stephen Hawking**, an English theoretical physicist, cosmologist, author, and Director of Research at the Centre for Theoretical Cosmology within the University of Cambridge. Prof. Hawking left for his heavenly abode on 14th March 2018.

Mr. Mohan and Mr. Goyal then opened the session on programming and controlling of LCD, IR, proximity sensor and other peripherals using Arduino. Participants then learned about theory and programming of various communication protocols, timers and interrupts and gained insight of various real time applications of Arduino. They were provided with rich hands-on experience of all the peripheral integration, programming and controlling.

During the last hours of the day a competition was held to pick top three learners amongst all the participants. **Ankit Dobhal-EEE 3rd year, Anshu Kumar-ECE 1st year and Vishwajeet Singh Sahani-EEE 2nd year** grabbed the top three positions respectively. They received kits consisting of Arduino and sensors in prize from honorable Director Sir.

The participants deemed the workshop to be delightful, informative and interesting and felt confident that it would help them in building quality projects. In the valedictory session, Prof. Soti motivated the students with his kind words.

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The workshop then concluded with the Vote-of-Thanks by Mr. Probeer Sahw. He thanked the faculty members, student coordinators, and other staff members due to whose efforts the workshop was successfully organized. He extended his regards to the trainers for the effective conduction of the workshop.

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Link of the Event:
https://gnindia.dronacharya.info/events/WorkshopIntroductionArduino.aspx?Month=Mar&Year=2018

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Name of the event: Workshop on Python and its Applications with IoT

Date of the event: 12th - 13th March 2018

No. of Participant:110

Summary of the event: **CSI Student Chapter** of **Dronacharya Group of Institutions, Greater Noida** organized a **Two Days Workshop on Python and its Applications with IoT** in collaboration with **Dr.A.P.J.Abdul Kalam Technical University, Lucknow.** The workshop was conducted by the trainers from **Softpro India Computer Technologies Pvt. Ltd., Ms. Yashi Asthana - Chief Executive Officer, Mr. Rohit Kumar - Project Manager** and **Mr. Ishan Asthana - Software Analyst.**

The objective of the workshop was enhancement of practical knowledge of the students, so that they can easily deal with projects. Around 110 students attended the workshop. The programme was coordinated by **Ms. Shanthi Makka** (HOD-CSE), **Ms. Kiran Singh** (Assistant Professor, CSE) and **Mr. Harshit Bhardwaj** (Assistant Professor, CSE)

Day 1: 12-3-2018 (Monday)

The workshop started with the lighting of lamp by guests from **Softpro, Hon'ble Director DGI - Dr. Ashish Soti**, Registrar - **Prof. B.L. Kaul** and **Ms. Shanthi Makka**.

Dr. Soti welcomed the guests and explained the benefits of such workshops and suggested the students to take up some projects where Python can be used.

Ms. Yashi Asthana explained the advantages of Python to the students. She discussed the introduction, features and the market value of Python.

Mr. Rohit Kumar started the technical session with the explanation of how to install Python, Setting Path and then how to write first Python Program. He went on to explain the Flow Controls (if and else, for loop and while loop), Working with Python List, String Manipulation in Python, Use of functions in Python, Working with Modules as well as Object Oriented Programming Concepts in Python. He showed few live projects, which he had developed for various industries along with coding segments to the students.

Day 1 concluded with assigning of assignments to the students.

Day 2: 13-3-2018 (Tuesday)

Mr. Rohit Kumar started the session with the **Introduction of IOT**, its Market Value and its advancement as future technology. He then explained Raspberry Pi, Physical computing using Raspberry Pi, Structure of IOT, Sensors, Application of Python in IOT, Demonstration of Python in IOT, CGI Programming, CGI Architecture, Web Server support and configuration, First CGI Program, Use of GET and POST methods for passing information, Use of Cookies, Database Concepts (SQL Statements), Database handling in Python (Using MySql as backend), Development of Project and Development of Registration and Login

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Modules, SMS API Integration, Introduction of Django Framework.

During the concluding session, **Mr. Kumar** made students develop a project using Python.

The Valedictory session started with the distribution of mementos to the guests and the Appreciation Letter. **Dr. Ashish Soti** and **Prof. B.L. Kaul** distributed Participation Certificates to the students.

Ms. Shanthi Makka HOD-CSE extended Vote of Thanks to **Dr. A.P.J. Abdul Kalam Technical University,** all delegates from **Softpro, DGI-Director,** Registrar, coordinators, Faculty, supporting staff and the students for making the workshop very engaging and successful.

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Link of the Event:
https://gnindia.dronacharya.info/events/Python2018.aspx?Month=Mar&Year=2018

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Name of the event: Workshop on Basics Of Foundry Practice Under the Aegis of Centre of Excellence for Smart Manufacturing (CoESM) (MSME, Govt. of India)

Date of the event: 8th - 9th March 2018

No. of Participant:33

Summary of the event: A Two Day Workshop on "**Basics of Foundry Practice"** was organized by Mechanical Engineering Department in collaboration with **MSME, Govt. of India** on **8th - 9th March 2018** at **Centre of Excellence for Smart Manufacturing (CoESM)**, **Dronacharya Group of Institutions, Greater Noida**. The workshop was coordinated by Faculty Member **Mr. Brijesh Verma** and was attended by **33 students** from second year Mechanical Engineering stream. The aim of the workshop was to make participants familiar with foundry practices, understand basic principle and perform casting to manufacture articles.

Day 1, 8th March 2018

On the first day, Mr. Brijesh Verma delivered a lecture on **Foundry Practice**. He began with the history of castings and covered following topics during his lecture:

1. Introduction of casting
2. Need of casting
3. Steps of casting
4. Types of castings
5. Sand casting and procedure
6. Foundry tools and equipment's
7. Casting defects
8. Inspection of castings.

Participants were explained the process of sand preparation for making molds. They were informed about appropriate composition of sand, water, clay and molasses. After making molds participants learned the process of pouring molten metal, solidification and removal of castings from the mold.

Day 2, 9th March 2018

On second day the participants prepared their own pattern for making mold cavity. The gas fired furnace was used to melt aluminum metal. After melting, liquid metal was poured into the mold cavity and casting was removed from the sand after solidification.

The workshop proved to be a successful and practical oriented. Participants gained very good knowledge and exposure of Foundry Practice.

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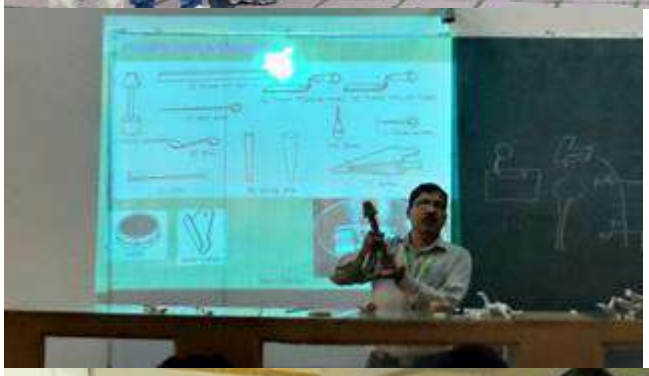

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Link of the Event:
https://gnindia.dronacharya.info/events/FoundryPractice_2018.aspx?Month=Mar&Year=2018

Name of the event: CII Annual Session 2018 "Building A better India Together: Responsible, Inclusive & Ahead"

Date of the event: 8th April, 2018

No. of Participant:13

Summary of the event: An Annual Session and Conference **"Building A better India Together: Responsible, Inclusive & Ahead"** was organized by **Confederation of Indian Industries** in association with **AVAADA, Apollo Hospitals, Airtel, Kotak Mahindra Bank Ltd.** at **Hotel Taj Diplomatic Enclave, Sardar Patel Marg, New Delhi** on **8th April'2018.**

Dr. Sahab Singh, Associate Professor & Head-Department of Management Studies, and MBA students from **Dronacharya Group of Institutions, Greater Noida,** attended this conference**.**
The objective of this session was to provide a platform inviting larger group of CII Members, Renowned Policy Makers, Strategic Thinkers, Eminent Academicians, Intellectuals, Media, Bankers, Industrialists, Central Vigilance Commissioner, Government Spokespersons etc. from several Departments to address the success story of CII and to discuss some key challenges like **Fiscal Conundrum, Making India a World Class Nation for Ease of Doing Business, Delivering Better Governance, etc.**

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The session began with **Smt. Shobana Kamineni, President-CII & Executive Vice Chairperson Apollo Hospital,** welcoming **Mr. Rakesh Bharti Mittal, President Designate-CII, Mr. Uday Kotak, Vice President-CII & Executive Vice Chairperson & Managing Director, Kotak Mahindra Bank Ltd., Mr. Chandrajit Banerjee, Director General-CII, Secretary** and other delegates**.**

Smt. Kamineni extended her greetings to **Mr. Arun Jaitly, Union Finance Minister,** for his insightful video message to the Nation on the occasion of CII Annual Session,
In her key address, **Smt. Kamineni** suggested that all industries must promote practice of female participation in an ethical and transparent manner either small or large and must disclose a minimum percentage of profit to spend over the Research & Development for the sustainable development of India. Sharing her belief, that 225 Million Indians earn a meager amount of Rs.150 a day; she reiterated that it is tough for families to manage.
Smt. Kamineni emphasized on **"Building Bridges and not to Build the Business"** by saying that **Private Public Partnership (PPP) Model** must be given more importance by the **Government of India** rather investing directly in the infrastructure like **Road, Sea, Port, etc,** and GOI must come in partnership with private stakeholders to do so.
Mr. Krish Iyer, President & CEO, Walmart India Pvt. Ltd. said that "Ease of doing business in the Indian market is a monumental factor that attracts foreign investors
Mr. Shishir Priyadarshi, Director, World Trade Organisation said that India is a big market, however, the world market is even bigger. He said that in order to penetrate global markets, the Indians industry must excel in technology and in the other key areas.
Reflecting similar sentiments, **Mr Ramesh Abhishek**, Secretary, Department of Industrial Policy and Promotion (DIPP) stated that the Prime Minister has identified Ease of Doing Business as an important priority of the Government.
Speaking at the same session, **C.K. Mishra**, Secretary, Ministry of Environment, Forest, and Climate Change highlighted that when it comes to environment, the world sees India as a responsible country.
Dr.K P Krishnan, Secretary, Ministry of Skill Development and Entrepreneurship noted that there is a twin problem in the skilling ecosystem viz with regard to scale wherein the demand for skilled labour exceeds supply and the low employability of the products of our skill ecosystem.
Mr. Uday Kotak appraised the initiative of Govt. of India to link every citizen with Aadhar to make nation corruption free and said that loans must be taken for the creation of goods and services and not for the running of household expenditure and political funding.
Prof. Soumitra Dutta, Prof. of Management, Cornell University, stressed upon the serious problem of managerial inefficiency, poor investment habits of Indian industry in the R&D, increased expenditures of GOI as compared to its income etc., and requested to follow the German and Japanese in order to make the Indian managers more competent.

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Dr. Rajiv Kumar, Vice Chairperson, NITI Aayog, shared his opinions that there is an urgent need of balanced Fiscal Reforms in India for the better tomorrow of Indian industry.
Prof. Deepak Nayyar, Emeritus Prof. of Economics, JNU, New Delhi emphasized upon the minimum use of finance to satisfy the unlimited wants of society.

Mr. Kenichi Yokohama, Country Director, Asian Development Bank, seemed concerned about the huge Infrastructure Financing Gap especially in urban India. He advised a holistic approach of Urban Development along with Rural part of it.
Mr. Dhruv V Sawhney, Past President, Chairman & Managing Director, Triveni Turbine Limited, also advocated a genuine fact that every single person must have the spirit of honesty because the first step of corruption and good governance starts from our own home.
The session ended with informal get together.

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Link of the Event:
https://gnindia.dronacharya.info/events/CIIAnnualSession2018.aspx?Month=Apr&Year=2018

Name of the event: NPTEL Awareness Workshop for Local Chapter's SP

Date of the event: 2nd July 2016

No. of Participant:2

Summary of the event: **IIT Madras** organized a **National Program on Technology Enhanced Learning (NPTEL) awareness workshop** for **SPOC** on **2nd July 2016** at **IC & IR auditorium, IIT Madras.** Two faculty members **Ms. Prachi Agarwal** and **Dr. Aditi Paul** represented **Dronacharya Group of Institutions, Greater Noida** at the **workshop.** The objective of workshop was to take up the queries of the SPOCs and enlighten the new SPOCs who have joined the TEAM.

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The National Programme on Technology Enhanced Learning (NPTEL), a project funded by the **Ministry of Human Resource Development (MHRD),** provides e-learning through online Web and Video courses in Engineering, Sciences, Technology, Management and Humanities.

NPTEL is a curriculum building exercise and is directed towards providing learning materials in science and engineering by adhering to the syllabi of All India Council for Technical Education and the slightly modified curricula of major affiliating Universities. Itâ€™s lectures utilize a multitude of facilities of the video medium such as chalk - and - talk, tablet writing, power point, two and three dimensional animations, interactive codes, etc. Each course comprises approximately 40 video lectures of about 1 hour duration. An online discussion forum is incorporated wherein students can post and review questions. Wherever applicable, course assignments, handouts, self - evaluation tasks, etc. have been integrated. Workshops are routinely conducted for institutes, students, mentors, etc. under the auspices of **NPTEL.**

The session was inaugurated by **Prof. Mangala Sunder Krishnan, National Web Course Coordinator, IIT Madras Prof. Pratap Haridoss NPTEL Coordinator, IIT, Madras** started session with the data of previous runs and the statistics for the past semester. He further advised the audience of the mission and vision of the program and shared the success stories of the past semester. He welcomed the new colleges who have joined the program and assured all the necessary help and assistance from NPTEL TEAM in making this program a success. He also asserted the role and the importance of the local chapters in the execution of the program.

Prof. Andrew Thangaraj NPTEL Coordinator, IIT, Madras took over the session. He started with the appreciation for all the local chapters and the SPOCs and motivated them further to do the grooming of the students with the same perfection. He took over the audience with features of the exam and asserted the fact that it's a proctored exam with the certificate directly from IIT and also verifiable through **NASSCOM portal.** He discussed the percentage required for the certification and also told about the weightage of assignments and proctored exam.

Moving further, he explained the audience the types and duration of the courses available. He also shared the past statistics about the impact of these courses and the percentage attendance in the examinations. He also shared the best practices of different colleges /universities which have adapted the NPTEL certifications in their curriculum.

Prof. Thangaraj also elaborated on the fact of how to use the **NPTEL certificates.** He stated that these certificates are very useful in placements and internship. NPTEL is also thinking to invite the top scorers for the internship at IIT Madras. Moving on in the same line, he told the audience about the process of establishing the exam center in their city and how to send a request to them.

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Later on the session was taken over **Ms. Bharathi Balaji, Senior Project Officer, NPTEL, IIT Madras** She advised the audience of all the administrative requirements to be met online for the portal.

The session post mid - day was dedicated to the feedback /queries / questions of the local chapters SPOCs. We all had a very eventful interaction. All the SPOCs shared the best practices they are adopting in their respective colleges about the **NPTEL TEAM.** Some of the queries / feedbacks were-

1. The offline / Online mode for the question paper must be decided in advance.

2. The timings for the end exam must be changed as the female students need to travel in the evening. To this query, Andrew sir stated that the time has been kept for evening as few students need to travel in the morning from the far off places.

3. The NPTEL courses must be recognized by all the colleges / universities to be a part of their curriculum.

4. The difficulty level of the course must be analyzed before selection of any course to generate the maximum impact factor.

5. The emphasis must be given on the quality of students and not quantity.

After grabbing all the feedbacks and discussion, the **NPTEL Awareness Workshop** ended with the Vote of Thanks by **Ms. Kamala Ramakrishnan, Facilitator, NPTEL IIT, Madras**.

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CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Dr. ADITI PAUL

DRONACHARYA GROUP OF INSTITUTIONS, GREATER NOIDA

for participating in the NPTEL Workshop for SPOCs
conducted at IIT Madras

JULY 02, 2016
DATE

NPTEL IIT MADRAS

PROF. ANDREW THANGARAJ
Coordinator, NPTEL IIT Madras

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

DRONACHARYA
Group of Institutions
Approved by : All India Council for Technical Education
Affiliated to : Uttar Pradesh Technical University, Lucknow

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

PRACHI AGARWAL

DRONACHARYA GROUP OF INSTITUTIONS, GREATER NOIDA

for participating in the NPTEL Workshop for SPOCs
conducted at IIT Madras

JULY 02, 2016
DATE

NPTEL IIT MADRAS

PROF. ANDREW THANGARAJ
Coordinator, NPTEL IIT Madras

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Dronacharya Group of Institutions
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Link of the Event:
https://gnindia.dronacharya.info/events/NPTEL_2016.aspx?Month=Jul&Year=2016

Name of the event: 'Entrepreneurship Educator Program' by (NEN)

Date of the event: 13th - 15th July 2016

No. of Participant:1

Summary of the event: A workshop by **'National Entrepreneurship Network (NEN)'** was held at **Jagannath International Management School (JIMS), New Delhi** on **'Entrepreneurship Educator Program'** commenced from **13th - 15th July 2016.** The workshop was designed for entrepreneurs and was attended by over 40 delegates from the different institutions. **Ms. Shalini Sharma, Assistant Professor**, Department of Computer Science and Engineering attended the workshop as a delegate from **Dronacharya Group of Institutions, Greater Noida.**

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The workshop focused on the need for entrepreneurship educator in today's world and especially in India. The objective of the workshop was to develop a basic understanding of Entrepreneurship concepts, such as Idea Generation, Opportunity Evaluation, Business Model, and Business Plan.

Day1:13th July 2016

The key speakers of the workshop were **Mr. Raj Bhat, Entrepreneur Educator, National Entrepreneurship Network and Mr. Sanjay Kapoor, Entrepreneur Consultant, National Entrepreneurship Network.** The workshop was inaugurated by **Mr. Raj Bhat** who emphasized the importance of entrepreneurship and the role of academic institutions. He explained that Business Model is important in the whole entrepreneurial process not just at the time of starting the business, business model iteration is the key to success of many leading cooperates. He gave some examples to indicate how some corporates have done this (cirque de soleil, wal - mart, apple). The participants were divided into small groups (4 - 5 participates per group) and were given exercise on the company building process. **Mr. Sanjay Kapoor** took the next session. He explained how to use the 5Qs rubric to screen the business ideas and provide understanding about the concept of facilitated blended learning. What do investors look for in a Business Plan and how to write a Business Plan using nine blocks of the Business Model Canvas were also discussed in the session.

Day2:14th July 2016

Second day began with the summarized take away from Day1 about the experiential learning and Kolb's model by **Mr. Raj Bhat. Wadhwani Way of Entrepreneur Development & Student Curriculum** was discussed in detail by **Mr. Raj Bhat and Mr. Sanjay Kapoor.** Wadhwani ways of development entrepreneurs was explained in detail. It was discussed that the institutions should supplement the syllabus and certification in entrepreneur using blended learning. Speakers explained the process how to build a campus entrepreneur ecosystem and discussed the case studies. **Mr. Sanjay Kapoor** took the next session on **'How to access and Use Learnwise and EdCast'**. Through the practical software downloading and the role of E-cell, objectives and function were explained. Through flow chart yearlong e-cell engagement process and annual recognition for e-leaders were explained. He continued his talk by taking session on **'WFNEN 100'.** He explained that after studying the**WFNEN100** course of the Wadhwani group participants could help discover the entrepreneur in the students and that is just a sample of what they can achieve through the E-cell.

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Day3: 15th July 2016

The session started with the Team Activity. Each Lesson numbers have been allotted to the different teams. Each team created the presentation of assigned Lesson and presented it. In the last session discussions were held on 'How to run a Team Activity and class Discussion'. Through e-cell engagement process and Self - reflection Exercise were explained.

The workshop concluded with distribution of certificates to the participants and group photographs. The workshop proved to be very beneficial to the faculty members and enriched their knowledge with practical aspects of Entrepreneurship.

WADHWANI FOUNDATION | NEN NATIONAL ENTREPRENEURSHIP NETWORK

LETTER OF PARTICIPATION

July 15, 2016

Prof Shalini Sharma
Dronacharya Group of Institution
Greater Noida

Dear Prof Shalini Sharma

Wadhwani Foundation & National Entrepreneurship Network thank you for attending the **NEN Entrepreneurship Educator Program** from **13 – 15 July 2016** at **Jagannath International Management School, Delhi** lead by **Ms. Kalpana Sinha & Mr. Sanjay Kapur.**

We hope you found the program valuable to equip yourself to motivate and train students & aspiring entrepreneurs to develop awareness about entrepreneurship and what it takes to become a successful entrepreneur.

We look forward to associate with you as NEN Entrepreneurship Educator to take a lead in delivering the entrepreneurship education following the Wadhwani Way in your campus.

Thank you,

Asgar Ahmed

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

Director
Dronacharya Group of Institutions
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Link of the Event:
https://gnindia.dronacharya.info/events/Entrepreneurship_Educator_Program1_2016.aspx?Month=Jul&Year=2016

Name of the event: Workshop on Basics of IPR & Commercialization of Technology for Start-Ups and Incubates

Date of the event: 8th July 2016

No. of Participant:7

Summary of the event: A workshop was organized by **CII MSME** at **MSME-DI, New Delhi** on **8th July 2016** pertaining to**IPR** and **Commercialisation of Technology** for Start - Ups and Incubatees. **Advisor (RD), Prof. TPN Singh** and students of **DGI, Greater Noida** namely **Sachin Kumar Verma, Pankaj Kumar** of **ECE** and **Kameshwar Goel, Ashwani Kumar Rathore, Dron Sharma** and **Ankur** of **ME** attended the program.

Mr. Anjan Das, Executive Director, CII gave the welcome address. He emphasized on the incubation model change wherein industry driven incubation should take place. Corporate sector should drive and guide innovations. 90% of new businesses are acquired by big companies and hence incubation should be mortgaged to them. He lamented that there are hardly any start-ups in conventional core sector and very few non-IT entrepreneurship. Intellectual property should be mortgaged and monetized.

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Mr. R. K. Panigrahi, Director, MSME,Development Institute, Delhi gave the key note address. He stressed on the development of programs for incubatees and incubators. Entrepreneurs must ensure that the ideas incubated metamorphose into a prototype and eventually a useful commercial product. MSME is deeply committed to the Prime Minister's Make in India Program. The thrust area will be large number of components to be indigenized which are parts of state of art technology systems. This would substantially reduce the cost of items and give a big boost to local entrepreneurs.

Mr. Surendra Nath Tripathi, Additional Secretary and Development Commissioner (MSME), Ministry of MSME rendered the special address. **Mr. Tripathi** said that IPR should be scientifically institute led where innovators do something and keep on doing till the end. Apple Company does not have a factory of its own but is the owner of hundreds of patents. IBM survived because of its IPR. Role of IPR is extremely important in the era of IOT which will revolutionize the way of life. One must try to exit at the right time and go for improvements. Marketing and branding has become an important factor for survival as Apple I-phones with less features and a very high price sells more than a very low priced phone with large features. Not every idea is great but great ideas should not be wasted. Industry led IPR is the best way to achieve success. Standalone IPR is not an attractive proposition.

Sessions were taken on **introduction to IPR, Procedure of IP filings, Fundamental of technology licensing, Trademarks and Value of creating brands and Technology valuation strategies**. The resource persons were **Ms. Shilpi Jha**,**Senior Legal Counsel for IP, Embassy of USA, Mr. Ashish Marbaniang, Partner, KS, Mr. R. Saha, Senior Advisor, CII and Mr. Arvind Chopra, VP (Patents), Intrust Globa.**

The seminar ended with vote of thanks by **Mr. R. K. Panigrahi.**

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Link of the Event: https://gnindia.dronacharya.info/events/IPR1_2016.aspx?Month=Jul&Year=2016

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Name of the event: National Conference on "Energy Security for India - Creating a Biofuel Economy"

Vigyan Bhawan, New Delhi

Date of the event: 10th August 2016

No. of Participant:4

Summary of the event: **A National Conference** on **"Energy Security for India- Creating a Biofuel Economy"** was organized by **Ministry of Petroleum & Natural Gas at Vigyan Bhawan, New Delhi** on the occasion of **World Biofuel Day** on **10 August 2016**. The event was inaugurated by **Hon'ble Union Minister of State for Power, Coal,** New and renewable energy & Mines, **Sh. Piyush Goyal** and **Hon'ble Minister of State for Petroleum and Natural Gas, Sh. Dharmendra Pradhan.** The conference had participation from senior government officials, technology developers, industry experts and academicians deliberating on enablers for enhancing the production of biofuels in the country.

Ms. Nisha Bhatt, Asst. Prof. (ME) DGI, Greater Noida along with students **Ashwani Kumar Rathore, Mohit Choudhary** and **Aman Srivastava** of Mechanical Engineering attended the conference.

Shri Sandeep poundrik (Joint secretary Refinery and MoP, NG) delivered the Welcome Address. He discussed the importance and need of bio fuel which can be technologically optimized in a better way for conserving our environment and optimum use of our resources.

The objective of the conference was not only to highlight unprecedented initiatives that have taken in the last two years by Ministry of Petroleum and Natural Gas but also to discuss the policy interventions that help to achieve national blending targets of Government of India.

On this occasion, the Union Petroleum Ministry launched marketing of **High Speed Diesel (HSD)** blended with Bio-diesel in selected retail outlets of **Oil Marketing Companies (OMCs)** in **New Delhi and Vishakhapatnam** by **Hindustan Petroleum (HPCL), in Haldia by Bharat Petroleum (BPCL)** and in **Vijayawada** by **Indian Oil (IOC)**

Technical talks

Mr. B. Ashok, Chairman of Indian Oil Cooperation, addressed the challenges faced by India in ethanol blended petrol program. While delivering his Special Address, he said that for biofuels economy; price affordability and sustainability should be kept in mind, whereas ensuring coordination and understanding between supplier and buyer will allow smooth implementation of biofuels program.

Ms. Varsha Joshi, Joint Secretary in Ministry of New & Renewable Energy emphasized on economy where innovative technology for recycling waste to ethanol can play a role for carbon smart future.

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Dr. Kathy Elst, VITO, Belgium delivered her technical talk on biofuel program in European countries.

During the valedictory session, **Sh. Piyush Goyal** announced a national level competition, **Jeevan Spardha,** to be started by the end of **November 2016** where students and academicians can also pitch their ideas towards energy security of India.

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Link of the Event:
https://gnindia.dronacharya.info/events/Energy_Security_2016.aspx?Month=Aug&Year=2016

Name of the event: Workshop on Android and iOS

Date of the event: 30th September, 2016

No. of Participant:90

Summary of the event: **IEEE Student Branch, Dronacharya Group of Institutions, Greater Noida** in association with Inspire InfoTech organized a workshop on **Android and iOS** on **30th September, 2016** with an objective to create awareness and its importance amongst students. The key speaker of workshop was **Mr. Nikhil Dhyani**, **Assistant Manager, Reddinton, Noida** and **Mr. Jaydeep Gaur, Software Engineer, Inspire Infotech Noida**. 90 students of **B.Tech 2nd** and **3rd Year** attended the workshop.

The event began with the floral welcome of **Mr. Dhyani** and **Mr. Gaur** by **Prof. S.K. Bagga, Director, DGI, Greater Noida**,. During the welcome address **Prof. Dr. S.K. Bagga**, said that Android and iOS application development would be of great use for students from all fields. He also focused on advantages of Android and iOS.

Mr. Dhayani started the workshop with the history of android, its advantages and disadvantages. He explained the benefits and changes it would bring to day-to-day activities and how it can benefit them irrespective of their branch.

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Mr. Gaur discussed the importance, usefulness and impact of apps in today's digital world. He updated the audience about the types of validation, basic hardware and software requirements for android development. He provided insights into XML file configure components and XML theme and explained app architecture, app components, app manifest and app resources. Students were taken for a lab session to experiment with their coding skills on Android Studio.

The workshop concluded with distribution of **Participation Certificates** to students by **Honorable Director, Prof. (Dr.) S.K. Bagga.**

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Link of the Event:
https://gnindia.dronacharya.info/events/Event_Sep_2016.aspx?Month=Sep&Year=2016

Name of the event: Conference on "Leveraging Technology in Education"

Date of the event: 23rd September 2016

No. of Participant:2

Summary of the event: **Confederation of Indian Industry (CII)** organized a conference **"Leveraging Technology in Education"** on **23rd September 2016, at ITC Maurya, New Delhi.** Two faculty members **Dr. Abhishek Swami,** Department Applied Science and Humanities and **Dr. Somnath Sinha,** from Department of Information Technology of **Dronacharya Group of Institutions, Greater Noida** attended the conference. The theme of the conference was **"How can Technology support inclusive and equitable quality education and promote learning".**

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The inauguration session (1030 Hrs - 1140 Hrs) started with a speech of **Mr. Anjan Das, Executive director, CII.** He discussed the role of information in education. **Mr. Rajeev Srivastava, Managing Director, Hwelett - Packward India** explained the importance of IT tools like Laptop, tablets etc. in education. **Mr. Srivastava** told how the confidence boost up has been recorded in the student using various IT Tools. **Ms. Debjani Gupta, Vice President - Sales and Marketing Group, Managing Director-South Asia, Intel Technology Pvt. Ltd**. emphasized on digital literacy for teachers by which they can easily involve with various e-learning platforms. **Ms. Debjani** told that e-learning is not completed without the involvement of teachers. **Mr. Bhaskar Pramanik, Chairman, Microsoft Corporation India, Pvt. Ltd.,** discussed that Microsoft is committed to provide computers to everyone for the purpose of education. He discussed that use of teacher capacity to deal with technology to education is a must. He told about the role of various certifications introduced by Microsoft for the students. **Mr. Richard Everitt, Director, Education, British Council India** gave his remarks on public and private partnerships for enhancing new technology in education. **Mr. Aditya Nath, Principal Secretary, Government of Andhra Pradesh** discussed various deficiencies of resources and infrastructure in Information Technology for the purpose of education. **Mr. Adiya Nath** told how 8.6 crore students drop school education annually and we need to identify root causes for drop outs.

The first session (1200 Hrs - 1315 Hrs) started with the speech by **Dr. Suresh Subramanian,Vice President, Industry Solutions HP, Inc.** and gave his remarks on Government's role in promoting the use of ICT education which revolves around the creation of infrastructure. He discussed that how it can be reduced school dropout ratio. **Dr. Manpreet Sing Manna, Director, In - Charge Swayam Cell, AICTE,** discussed the role of Swayam portal for the young technocrats. He told how the Government is trying to open a portal for School going children as well. He emphasized for making India digitally strong to enhance our education system. He told about the role of ICT in engineering education and how ICT can impact on the capacity building of our students.

The second session (1415 Hrs - 1530 Hrs) started with the introductory remark by **Mr. Ashutosh Chadha, Director, Government Affairs, Microsoft, Corporation India, Pvt., Ltd.,** on Adaptive learning and capturing; analyzing behavior for improving out and about digital content transformation. He emphasized on the role of cloud based delivery of content and assessment in class room. **Mr. Harman Singh, CEO & Founder, WixIQ** discussed leveraged technology to replicate classroom experience for students and teachers. He discussed various innovative ideas for online learnings. **Dr. Anjlee Prakash, Director, Educomp,** told that in ever increasing universe of options, thousands of technologies are available for teachers, students as well as evaluators to improve their proficiency in teaching, learning and assessment. **Dr. Anjlee** emphasized that Educomp is committed to provide better technologies for better learnings.

Mr. Kishore Balaji, Director - Corporate Affairs, Intel South Asia took the third session (1600 Hrs - 1730 Hrs) and discussed on empowering teachers through sustained profession learning, next generation learning objectives and teacher generated content and recognition and reward program for motivating the converts. **Dr. Hrushikesh Senapathy Director, NCERT, New Delhi,** discussed about changing the curriculum at the pre-service level to create a new teaching cadre. **Ms. Rupa Chakravarty, Principal, Suncity School,** discussed how some of the interventions by industry in curriculum development and transforming the learning practice have motivated and inspired

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teachers for better learnings. **Dr. Indu Khetarpal, Principal, Salwan Public School, Delhi,** told that we should be approachable for embracing professional development design for K-12 teachers in public domain. **Dr. Indu** discussed that teachers should be inspired to embrace transformation teaching practices by reward and motivation. **Dr. Vinnie jauhari, Director Education Advocacy, Microsoft Corporation, India, PVT, Ltd.,** provided a glimpse into the exciting world of new possibilities in the areas of 1:1 learning, classroom of the future, adaptive learning, digital content transformation, building teacher capacity etc.

In the end, **Mr. Kishore Balaji, Director - Corporate Affairs, Intel South Asia,** summed up the ideas shared during the conference by various speakers followed by the **Hi-Tea.**

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Link of the Event:
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Name of the event: One Week Coordinators Workshop on CMOS, Mixed Signal and Radio Frequency VLSI Design India Institute of Technology, Kharagpur

Date of the event: 19th - 23rd September 2016

No. of Participant:1

Summary of the event: A One Week Coordinators' Workshop on **"CMOS, Mixed Signal and Radio Frequency VLSI Design"**under the **National Mission on Education through ICT (NMEICT)** was organized at **IIT Kharagpur** during **19th - 23rd September, 2016**. **Prof. Vinod Kumar**, HOD - ECE from **Dronacharya Group of Institutions, Greater Noida** attended the workshop. About 250 participants from different engineering colleges across the country attended the workshop.

The Recourse Persons for the workshop were:

1. **Prof. T K Bhattacharya, IIT Kharagpur**
2. **Prof. Indrajit Chakrabarti, IIT Kharagpur**
3. **Prof. Mrigank Sharad, IIT Kharagpur**

The objective of the workshop was to provide an orientation and in-depth knowledge to the Faculty members who would act as Workshop Coordinators during the main workshop to be held during the end of **December 2016** or last week of **January 2017.**

Day 1: 19th September 2016

The session was inaugurated by the Chief Guest **Prof. Anil Dattatraya Sahasrabudhe, Chairman - AICTE** with the lighting of lamp in the august presence

1. Prof. P. P. Chakrabarti (Director, IIT Kharagpur),
2. Prof. Raja Datta (Principal Investigator, T10KT, IIT Kharagpur),
3. Prof. O. P. Sha (Co-principal Investigator, T10KT, IIT Kharagpur),
4. Prof. Pallav Das Gupta (Dean, Continuing Program, IIT Kharagpur)
5. Prof. T. K. Bhattacharya (Workshop Coordinator)
6. Prof. Indrajit Chakrabarti(Workshop Coordinator)
7. Prof. Mrigank Sharad (Workshop Coordinator)

Addressing the participants, **Prof. Raja Datta** said that the purpose of the workshop was to discuss the pedagogical aspect of teaching. **Prof. Chakrabarti** encouraged the participants to do something valuable during the workshop. In his keynote address, Prof. Sahasrabudhe said that unless the faculty is empowered, the quality of teaching cannot be enhanced. **Prof. Pallav Das Gupta** said that country has the potential of becoming the power house of the design of chip and all the forthcoming technology will be led by **VLSI design.**

After the inauguration, the 1st session started at **2:00 PM** which was conducted by **Prof. T. K. Bhattacharya,** main coordinator of the workshop who covered the following topics during his lecture:

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1. Introduction to RFIC Design.

2. Basic Rx-Tx.

He talked about the different application area of RFIC like wireless, radar, navigation, remote sensing etc. **Prof. Bhattacharya** discussed in detail about RF circuits and systems, including Design Issue, Linearity Issue, Stability Issue and Sensitivity.

Day 2: 20th September 2016

The session of second day started at **9:30 AM** with the lecture of **Prof. Indrajit Chakrabarti.** He covered the following topics during his lecture:

1. Low Power Digital Design.

2. Video Compression Architecture.

He said that two design methodologies are used for low power digital design. First is the voltage scaling approach and the second is system level approach. These methods are normally used to minimize the switched capacitances. He also discussed the glitches.

Post - lunch session was conducted by **Prof. T. K. Bhattacharya**. He covered the following topics during his lecture:

1. Low Noise Amplifier (LNA).

2. Voltage Control Oscillator (VCO).

At the end of his lecture he explained about VCO in detail.

Day 3: 21st September 2016

Session of day 3 started at **9:30 AM** with the lecture of **Prof. Mrigank Sharad**. He covered the following topics:

1. Analog Front End (AFE) Design.

2. Filters.

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Prof. Mrigank started his lecture on Analog Front End Design by explaining some application in different areas like agriculture, environment, safety, control, biomedical, robotics etc. He also talked about the differential amplifier and said that main advantage of differential amplifier is to reject the unwanted signal. He listed the desirable condition of differential amplifier like:

1. Maximal suppression of dynamic drift.

2. Low Power.

3. Low Area.

4. Robust: meet specifications across process corners.

Lecture of **post - lunch session** was conducted by **Prof. Indrajit Chakrabarti** on Video Compression Architecture. **Mr. B. K. Srinivasrao (Research Scholar)** organized the lab session and showed some results of video compression and also performed some experiments on **FPGA.**

Day 4: 22nd September 2016

Session started with the lecture of **Prof. T. K. Bhattacharya.** He covered the following topics during his lecture:

1. Mixers.

2. RF Power Amplifier.

He emphasized about the knowledge of schematic and post layout simulation when dealing with mixer design. Prof. Bhattacharya talked about the special considerations for mixer design and said that "passive mixing is not so popular as compared to active mixing. Isolation from low frequency domain to high frequency domain is very critical for mixer design. He also talked about the layout design of Analog and RF.

Post - lunch session was conducted by **Prof. Mrigank Sharad.** During the lecture, he covered **Analog to Digital Converter (ADC).**

During the last session of the day, **Prof. Raja Datta** along with the Administrative Team of **T10KT, IIT Kharagpur,**discussed the procedures for conducting the main workshop to be transmitted at different remote centres through A-View in the month of **January 2017.**

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Day 5: 23rd September 2016

Last day's session started with a lecture of power amplifier and frequency synthesizer by **Prof. T. K. Bhattacharya.**

He discussed about the characteristics of power amplifier, its function and key specifications like maximum output power, power added efficiency, power gain, linearity and stability. During the discussion about CMOS frequency synthesizer he said that higher the hopping range of frequency, lower the settling time. He also talked about the design of PLL.

Valedictory Ceremony of the workshop started after lunch on **23rd September 2016. Prof. Deepak. B. Pathak (Department of Computer Science, IIT Bombay), Professor P. P. Chakrabarti, Prof. Raja Datta, Prof. O. P. Sha, Prof. T. K. Bhattacharya, Prof. Indrajit Chakrabarti and Prof. Mrigank Sharad** graced the ceremony. **Prof. Raja Datta** congratulated everyone for the successful completion of the workshop and distributed Certificate of Participation to all the participants. Finally, workshop ended with this hope that workshop coordinators will conduct the main workshop in a fruitful manner.

Participation Certificate

This is to certify that

Vinod Kumar

of

Dronacharya College of Engineering, Greater Noida

participated in One Week ISTE STTP for Coordinators on

CMOS, Mixed Signal and Radio Frequency VLSI Design

Conducted by Indian Institute of Technology Kharagpur

from 19th September to 23rd September, 2016

This workshop was held under the National Mission on Education through ICT (MHRD)

Course Coordinator
IIT Kharagpur

O. P. Sha
Dean, Continuing Education
IIT Kharagpur

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Link of the Event:
https://gnindia.dronacharya.info/events/CMOS_2016.aspx?Month=Sep&Year=2016

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Name of the event: Workshop on Research Methodologies and Modelling Techniques

Date of the event: 16 September 2016

No. of Participant:54

Summary of the event: Department of Information Technology, **Dronacharya Group of Institutions, Greater Noida**, organized a one day workshop on **"Research Methodologies and Modelling Techniques"** on **September 16th, 2016** which was conducted by **Mr. Prashant Kumar, Scientist CSIR-CSIO Chandigarh.** 54 Students participated in the workshop which was coordinated by Assistant Professor, **Ms. Preeti Chawla.**

The objective was to help the students understand the benefits of Research Methodologies and develop critical thinking.

The session started with the welcome address by **Prof.(Dr.) S. K. Bagga, Director Dronacharya Group of Institutions, Greater Noida.**

Mr. Prashant Kumar started the session with an introduction, importance and applications of Research. He said that the innovation is necessary for maximizing effectiveness. Incorporating many years of continuous research and development, the latest Drastic Model offers Vulnerability- Based Map and visualization tools, fast linear and nonlinear analytical power.**Mr. Prashant** also said that the machine learning has sophisticated and comprehensive capabilities that allow users to quickly and easily decipher and understand analysis and results. It also integrates every aspect of the multi-criteria decision modelling technique.

During the session students were trained to work on **PYRAMID STRUCTURE OF RESEARCH**. Following topics were covered during the session:

Redefining Research

Research systematic & objective identification

Problem identification Research

The last session of the workshop was a practice session where research models were developed using PYRAMID STRUCTURE.

The workshop ended with the Valedictory Session where the participation certificates were issued to all the candidates. Ms. Preeti Chawla delivered Vote of Thanks.

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The one day workshop had useful insights for students in research. Various aspects of the design & analysis of research structures by using **pyramid** were studied in - depth. The knowledge imparted during the workshop will help students in developing projects and research papers in future.

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Link of the Event:
https://gnindia.dronacharya.info/events/Research_Methodologies_2016.aspx?Month=Sep&Year=2016

Name of the event: QEEE Session On Microprocessors and Microcontrollers - Memory Mapping and Peripheral Interfacing

Date of the event: 15th, 21st & 22nd September 2016

No. of Participant:15

Summary of the event: **QEEE Session on Microprocessors and Microcontrollers - Memory Mapping and Peripheral Interfacing** was organized by **IIT, Madras** under **D2S (Direct to Student) Program** at **Dronacharya Group of Institutions, Greater Noida** on **15th, 21st & 22nd September 2016**. B. Tech 3rd Year students of ECE & EEE Department attended the session at**DGI, Greater Noida.** The program was conducted by **Prof. Ashok Jhunjhunwala, IIT Madras.** The program was coordinated by **Ms. Rasveen (Assistant Professor, Department of ECE) DGI, Greater Noida.**

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Day 1: 15th September 2016

On first day of the program **Prof. Ashok Jhunjhunwala** gave an introduction to processor board, memory mapping, processor architecture and processor chip in detail. He discussed the basic components and basic operations of 8085 /8086 processor family. He also elaborated execution unit, transmitting data, addresses and control signal of a processor. He explained the use of external memory which allows the permanent storage of large quantities of data. He gave an overview on Peripheral Interface Controller (PIC) which is designed to improve the performance of I/O operations from a computer's peripheral devices. The session focused on the basic concept of memory mapping, external memory and processor architecture. Session ended with Questionnaire.

Day 2: 21st September 2016

On the second day, **Prof. Jhunjhunwala** discussed the basics of polling and interrupt services. He explained **interrupt service request (ISR),** maskable /non - maskable interrupts, hardware interrupts and software interrupts. He described execution of interrupts, interrupt acknowledgment and the **Interrupt Vector Table (IVT).** He demonstrated the keyboard and keypad interfacing with the help of interrupt. The session ended with interaction of **Prof. Jhunjhunwala** with the participants and he resolved their queries.

Day 3: 22nd September 2016

Third session started with the uses of **peripheral interface controller (PIC)** in electrical circuits, small controllers and circuits that require a set amount of processing. He also discussed limitations and advantages of PIC architecture and building blocks for implementation registers. He described **direct memory access (DMA)**, pin description and various modes of data transfer. He explained the 7 Layers OSI Standard Protocol for inter device communication.

The knowledge received from these sessions will be useful for the students in academics as well as in project work.

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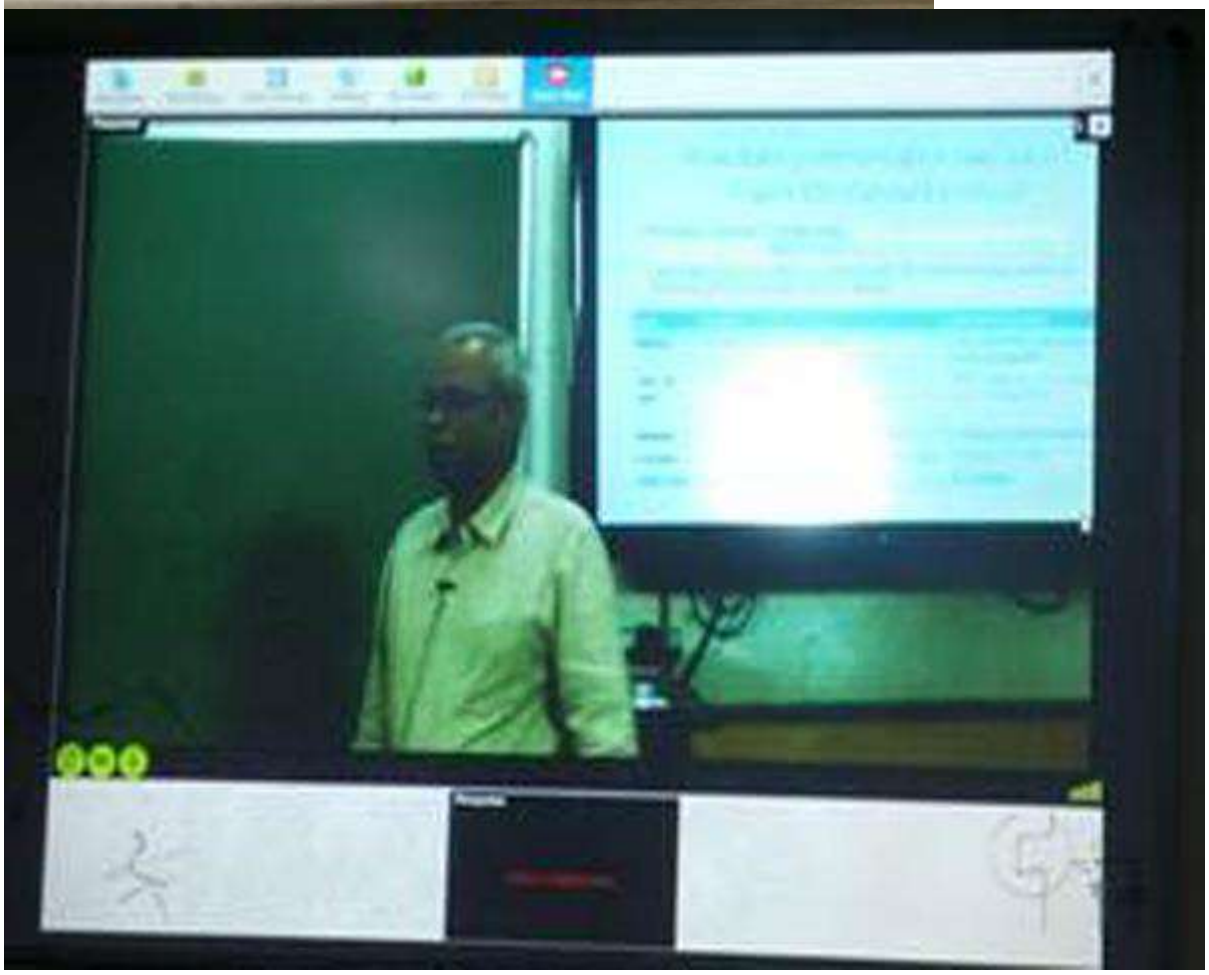

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Link of the Event:
https://gnindia.dronacharya.info/events/Microprocessors_2016.aspx?Month=Sep&Year=2016

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Name of the event: QEEE Session on Combinational and Sequential Circuit Design - Digital IC Design

Date of the event: 14th, 15th & 16th September 2016

No. of Participant:20

Summary of the event: QEEE Session on **'Combinational and Sequential Circuit Design - Digital IC Design'** was organized by **IIT, Madras** under D2S (Direct to Student) Program at **Dronacharya Group of Institutions, Greater Noida** during **14th - 16th September 2016.** The session was scheduled for B. Tech. (ECE) Final Year students. **Dr. Nitin Chandrachoodan (IIT, Madras)** was the resource person in this program. The program at **DGI, Greater Noida** was coordinated by **Ms. Shailika Sharma (Assistant Professor, Department of ECE).**

Day 1: 14th September 2016

The First session started with the lecture of **Dr. Nitin Chandrachoodan**. He started with static CMOS design of combinational circuit elements. He also explained **Propagation Delay** and **Power Consumption**. He discussed PMOS and NMOS fabrication steps and its advantages & disadvantages. He explained the Static CMOS Circuits using Pull - Up and Pull - Down set up. He discussed Glitch problem of Dynamic CMOS Logic and Dynamic CMOS Rules and explained Sizing problem of CMOS Domino Logic in detail. Session ended with Questionnaire.

Day 2: 15th September 2016

Dr. Nitin Chandrachoodan started lecture with the basics of Timing Analysis of CMOS Inverter and its working. Basic Voltage Transfer Characteristic of CMOS inverter was discussed with modes of MOSFETs. He later explained the Static and Dynamic Latches in Digital Integrated Circuit. He explained storage in a **Static Sequential Circuit** relies on the concept that a Cross - Coupled Inverter and principle for it. He discussed major disadvantage of the Static Gate. He also explained Latch-Based Systems such as **NORA-CMOS** - A Logic Style for Pipelined Structures, CMOS SRAM Cell, CMOS DRAM Cell and Latch-Based Sense Amplifier (DRAM).

Day 3: 16th September 2016

The third session started with a discussion on Combinational Modules of Adders and Latch-Based Shift Register. **Dr. Chandrachoodan** said Modern VLSI favors adder designs which have compact carry chains and adder delay is dominated by carry chain. He explained how various adder architectures differ from each other in carry generation circuit like Ripple Carry Adder, Carry-Look Ahead Adder, Carry-Select Adder, Carry Skip Adder, Manchester Carry Chain and Serial Adder.

The program ended with the Q&A Session.

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Link of the Event:
https://gnindia.dronacharya.info/events/Combinational_2016.aspx?Month=Sep&Year=2016

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Name of the event: INTERNATIONAL WORKSHOP ON AMATEUR RADIO COMMUNICATION & COMPUTING IN EDUCATIONAL ENVIRONMENT

Date of the event: 14th & 15th SEPTEMBER 2016

No. of Participant:7

Summary of the event: An International Workshop on **"Amateur Radio Communication & Computing in Educational Environment"** was organized by **ABES Engineering College, Ghaziabad** on **14th & 15th September 2016.** The workshop was aimed at providing knowledge in the area of **Amateur Radio Communication** and **Amateur Radio Community. Mr. Nitin Kumar, Assistant Professor (ECE)** along with six B. Tech (ECE) students **1. Aditi Biswas, 2. Deepak Kumar, 3. Madhvi Priya, 4. Raj Kumar Singh, 5. Shweta Sharma and 6.Siddhant Bansal** from **Dronacharya Group of Institutions, Greater Noida** attended the workshop.

Dr. Miroslav Skoric from **University of Novi Sad, Serbia (ACM & IEEE Section Austria)** and **Dr. Sandeep Baruah,Scientist-E, Vigyan Prasar,** Department of Science & Technology, Govt. of India were the invited speakers for the event.

Day 1: 14th September 2016

The inauguration of the workshop started with the welcome address by **Prof. (Dr.) P. C. Vashist, HOD - IT, ABES** followed by the introductory lecture from **Dr. M.K. Jha, Director, ABES, Dr. S. S. Tyagi (Guest of Honor)** and **Dr. M. K. Soni (Chief Guest)** on the **Amateur Radio** and its importance.

Workshop started with the introduction of **Amateur Radio** by **Dr. Miroslav Skoric.** He explained the Packet Radio System, which is the simplest way of interconnecting two (or more) computers - by using the amateur radio infrastructure and avoiding any commercial service. He explained **Amateur Radio Relay, HF (14Mz), VHF (144 MHz) and UDF (432 Mz) Band** for amateur radio communication. He also demonstrated the satellite tracking through **GPREDICT software.**

Dr. Sandeep Baruah gave detail of HAM, Morse Code and Armature Operator License Exam.

Day 2: 15th September 2016

Dr. Miroslav Skoric discussed various open source software available for packet radio. He said that **DOSFBB, WinFBB, LinuxFBB, Xrouter, JNOS, sysop etc.** are some tools which can run on **DOS, MS Windows** and **Linux Operating System.**He also explained various antennas and their mounting for amateur radio.

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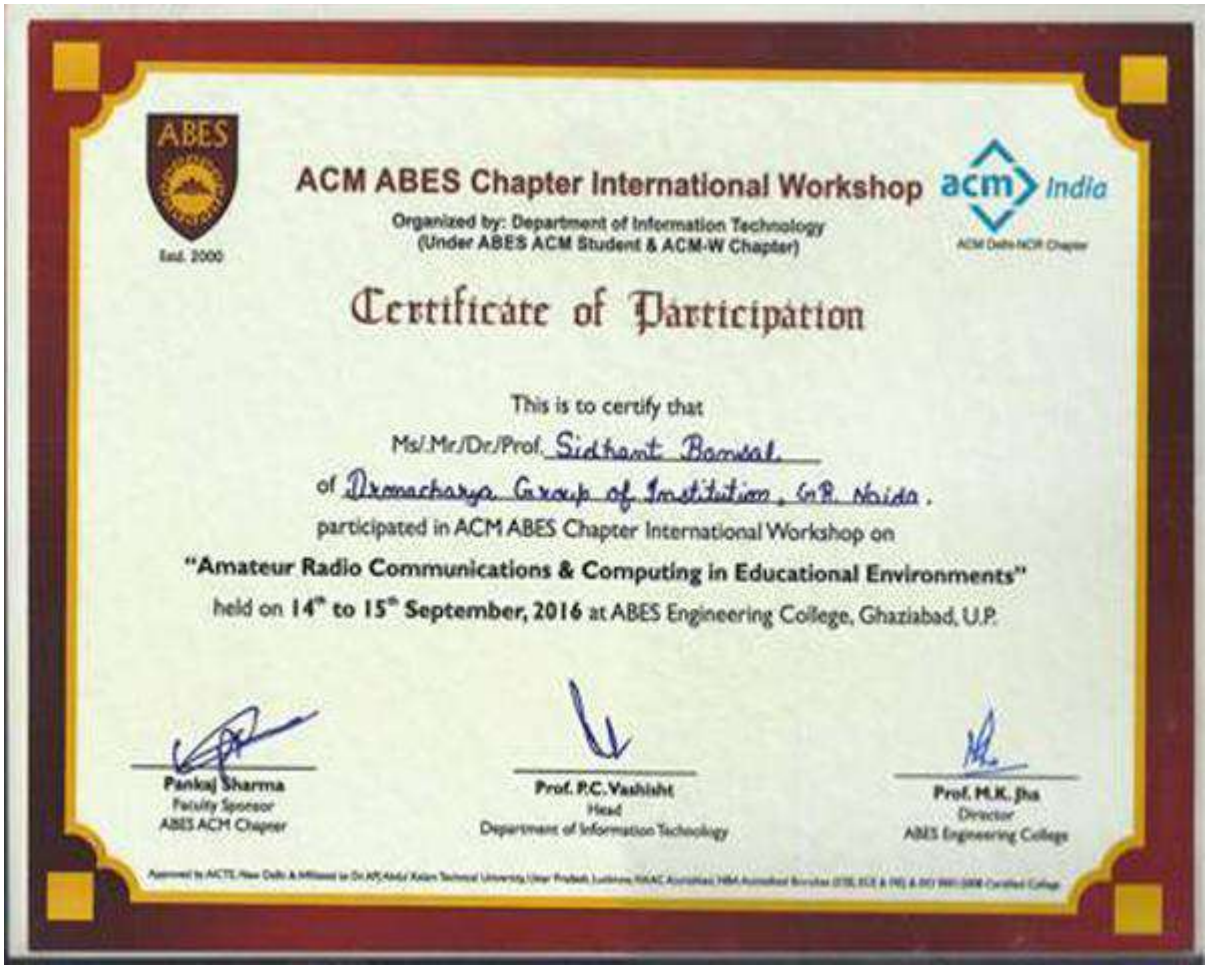
Dr. Sandeep Baruah demonstrated a wire type antenna for amateur radio. The session ended with a quiz in which students actively participated.

The workshop ended with **Vote of Thanks** delivered by **Dr. M.K. Jha** and certifictaes distribution.

The workshop was very educative and informative. The participants got an exposure of Amateur Radio Communication. The knowledge gained from this workshop will help participants start their **Amateur Radio Station** and become part of **Amateur Radio Society.**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Faculty Sponsor
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Pankaj Sharma	**Prof. P.C. Vashisht**	**Prof. M.K. Jha**
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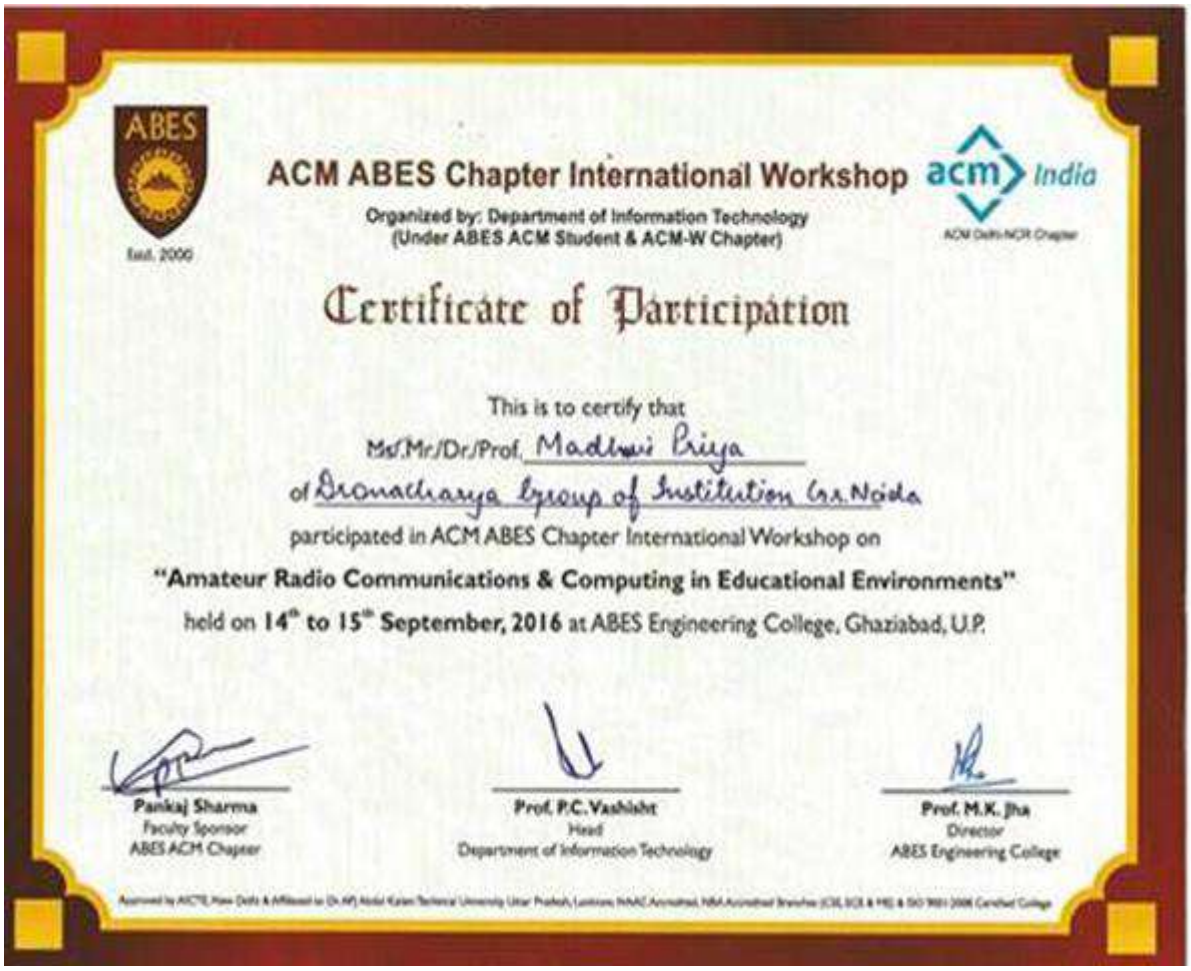

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Faculty Sponsor
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Prof. P.C. Vashisht
Head
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Prof. M.K. Jha
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Prof. P.C. Vashisht
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Link of the Event:
https://gnindia.dronacharya.info/events/Amateur_Radio_2016.aspx?Month=Sep&Year=2016

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Name of the event: QEEE Session on "GEAR : Kinematics and Dynamics of Machinery / Theory of Machines"

Date of the event: 9th, 14th and 20th September 2016

No. of Participant:10

Summary of the event: QEEE Session on **"GEAR: Kinematics and Dynamics of Machinery / Theory of Machines"** was organized by **IIT Madras**under **D2S (Direct to Student) Program** at **Dronacharya Group of Institutions, Greater Noida** during **9th, 14th and 20th September 2016.** The session was conducted by **Dr. Abhijit Sarkar, Professor, IIT Madras. 3rd and 4th Year Mechanical Department** Students attended the session. The session was coordinated by **Mr. Brijesh Verma, Assistant Professor (ME), DGI, Greater Noida.**

The course pack was a part of quality enhancement in education, an open learning platform provided exclusively by **IIT - Madras.** It was a complete package of comprehensive study materials which includes of Video Lectures, PowerPoint Slides and PDF Documents. It also included quiz, proctored quiz and assignment for practice of students. The course was conducted in three sessions as follows:

Day 1: 9th September 2016

First session started with a detailed explanation of applications and uses of gear in different field e.g. Automobile, Crane and various machinery in industries. **Prof. Abhijit Sarkar** explained the motion of gear and compared it well with the rolling motion of friction disks. Later he discussed the geometry and nomenclature of gear tooth and its involute profile.

Day 2: 14th September 2016

The next session commenced with the explanation of **Instantaneous Center and Law of Gearing** - According to this law the angular velocity ratio of all gears of a meshed gear system must remain constant also the common normal at the point of contact must pass through the pitch point. **Prof. Sarkar** explained involute profile of gear tooth. The involute gear profile is the most commonly used system for gearing today. In this type of gear, the profiles of the teeth are involutes of a circle. He also discussed pressure angle and effect of change of center distance between gears for involute profile of teeth. He discussed base circle and its relationship with tooth geometry.

Day 3: 20th September 2016

In the last session **Prof. Sarkar** elaborated advantages of involute profile of teeth over other profiles of teeth like running is smooth in involute gear whereas in other gear running is less smooth. There is flexibility during the assembly and larger tolerance may be permitted in involute gear whereas exact centre distance is necessary to transmit constant velocity ratio in other gears. He then discussed Contact Ratio, Length of Path of Contact and Undercutting. At the end of the session, he explained various gear train for getting different **Gear Ratio.**

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Each session was very interactive. **Prof. Sarkar** provided a very impressive introduction and comprehensive outlook about gear and its application. DGI students their cleared their concepts of gear geometry, gear train and its application during **Q & A Session.**

The entire three day session with **Prof. Abhijit Sarkar** was very knowledgeable and informative which indeed helped students as well as faculty members to broaden the horizon of their understanding about gear and its uses.

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Link of the Event:
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Name of the event: Workshop On Cloud Computing on Amazon Web Services

Date of the event: 3rd September 2016

No. of Participant:53

Summary of the event: Department of Applied Science and Humanities **Dronacharya Group of Institutions, Greater Noida** organized **a workshop** on **Cloud Computing** on **Amazon Web Services** under the banner of CSI Chapter of **DGI** on **3rd September 2016. Mr. Aurbind Sharma, Founder CMD,** TED Consulting conducted the workshop. The objective of the workshop was to offer a comprehensive knowledge about cloud computing and its competitiveness to increase opportunities for students in software industry. 53 students from **B. Tech 1st Year** attended the workshop.

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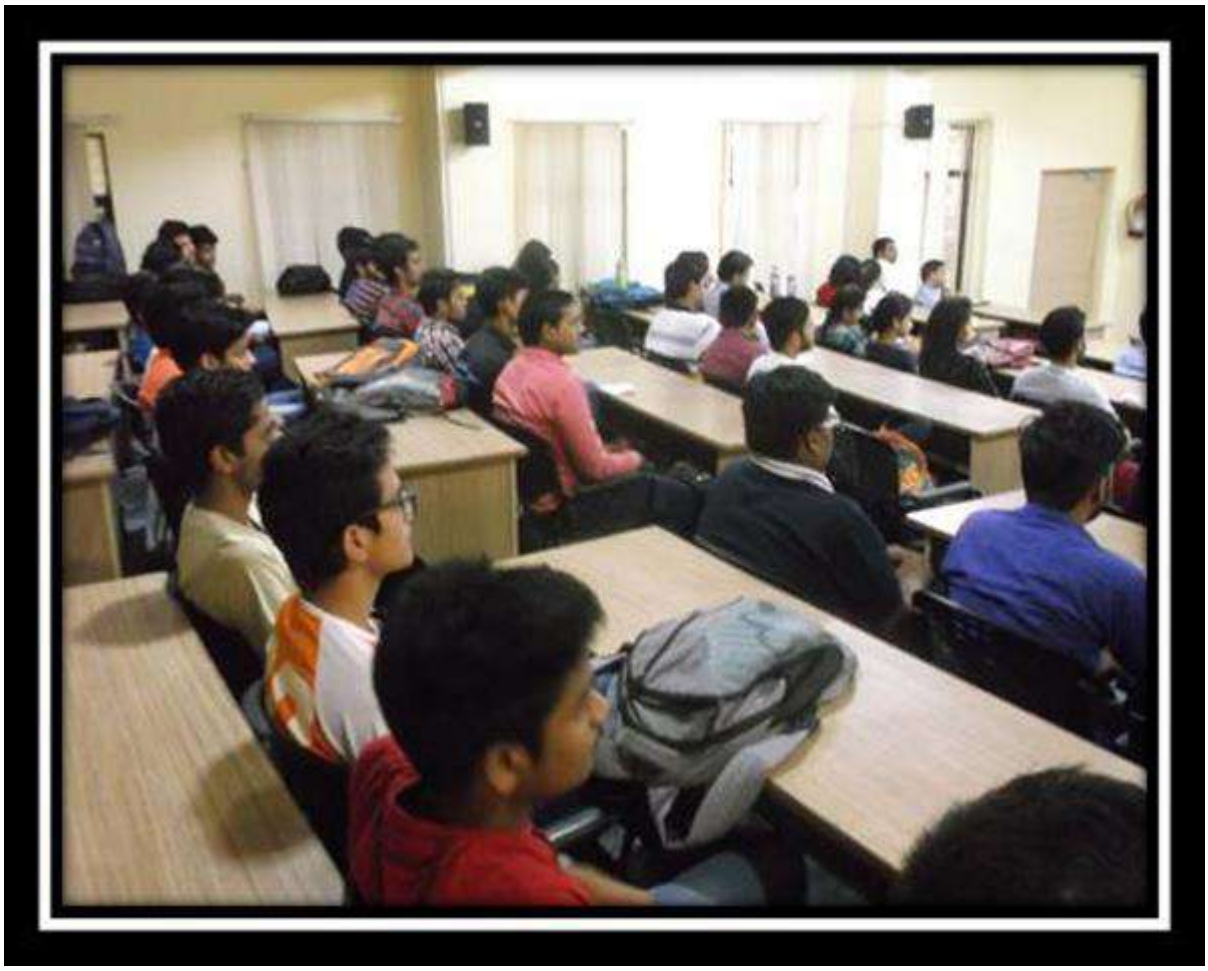
The workshop started with the **Welcome Address** by **Prof. (Dr.) S.K. Bagga, Director, Dronacharya Group of Institutions, Greater Noida** who highlighted the importance of Cloud Computing in modern days.

Mr. Aurbind Sharma started the session with brief on **Cloud Computing** in social media. He described in detail the use of Cloud Computing at grass root level like Banking, Internet and Reservation of e-tickets. **Mr. Sharma** said that cloud computing must be cost effective, flexible, reliable, accessible and with low maintenance cost. He cited examples of organizations that are operating in cloud computing business.

Mr. Sharma said that there is an urgent need to train our technocrats for the basic concept of cloud and its working. He discussed various clouds like **private, organizational, public** and **hybrid.**

The workshop ended with **Memento presentation** to **Mr. Aurbind Sharma** by **Prof. Bagga.**

The workshop was coordinated by **Apratim Kumar Singh, CSE - III Semester.**



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Link of the Event:
https://gnindia.dronacharya.info/events/Cloud_Computing_2016.aspx?Month=Sep&Year=2016

Name of the event: QEEE Session on Classification of Signals and Systems - Introduction

Date of the event: 1st, 6th and 8th September 2016

No. of Participant:14

Summary of the event: **Quality Enhancement in Engineering Education QEEE Session** on '**Classification of Signals Systems - Introduction**' was organized by **IIT Madras** on **1st, 6th and 8th September 2016** under **D2S (Direct to Student) Program.** The session was an interactive educational experience through distinct learning modules where live classes through video conferencing were conducted by **IIT professors. B.Tech 2nd year** ECE students attended the session at **Dronacharya Group of Institutions, Greater Noida. Prof. Arun Pachai Kannu (Department of Electrical Engineering, IIT, Mandi)** was the resource person in the program. The program was coordinated by **Mr. Nitin Kumar (Assistant Professor, Department of ECE), DGI,Greater Noida.**

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Day 1: 1st September 2016

The session started with the lecture of **Prof. Arun Pachai Kannu** in QEEE seminar hall. In his lecture, he described the classification of signal and system on the basis of continuous and discrete time. He explained the basis of signal transformation by using time shifting and time scaling in continuous and discrete time. Further he explained the basic even and odd energy as well as discrete time signal.

Day 2: 6th September 2016

Prof. Arun clarified the unit impulse and unit step signal in continuous and discrete time. He gave an explanation of the sampling property of unit impulse signal followed by complex exponential signal in continuous and discrete time. He explained the basic properties of signal and system like periodicity, memory less, causal, linearity, time-invariant and invertible.

Day 3: 8th September 2016

Prof. Arun Pachai initiated his lecture with an introduction to **Linear Time Invariant (LTI) System.** He explained the Impulse Response of the signal, properties of Convolution and Interpretation Impulse Response of Real System.

The program ended with the question and answer session. The entire course was very informative which helped students broaden the horizon of their understanding.

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Link of the Event:
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Name of the event: Workshop on C Language

Date of the event: 27th October 2016

No. of Participant:56

Summary of the event: **Student Chapter** of **Computer Society of India (CSI) Dronacharya Group of Institutions, Greater Noida**in association with **Aptron Solutions Pvt. Ltd.**organized a **"Workshop on C Language"**on **27th October2016**. **Mr. Kuldeep Kumar (Technical Consultant**) from **Aptron Solutions Pvt. Ltd., Noida** was Keynote Speaker for the workshop. 56 students from Computer Science & Engineering, Information Technology, Computer Science & Information Technology Second Year, Mechanical and Civil Engineering of First Year attended the workshop. The objective of the workshop was to enhance the knowledge of C Language of First Year students.

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The event began with the floral welcome of **Mr. Sandeep Chaudhary (Team Leader), Mr. Uttkarsh (Marketing Manager)** and **Mr. Kuldeep Kumar (Technical Consultant)**from **Aptron** by **Prof. S. K. Bagga-Director, DGI, Greater Noida.**

Welcoming the Guests, **Prof. Bagga** said that such workshops are important as they create awareness about new technologies.

Mr. Kumar started the session with a brief description of the relevance of "C" for each technical branch along with its future advantages in the Embedded Technologies. He explained in detail various core concepts of "C" along with their practical implementation. During his lecture he focused on the concepts of Operating System, Branching, Looping, Arrays, Pointers, Functions and Strings.

Mr. Uttkarsh conductedhands on training. He also discussed the role of C language in Career Growth,Placement and Higher Education.

The program ended with the presentation of memento to **Mr. Sandeep Chaudhary, Mr. Uttkarsh and Mr. Kuldeep Kumar** by **Prof. Bagga**.

Ms. Shalini Sharma , Program Coordinator rendered vote of thanks

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Link of the Event:
https://gnindia.dronacharya.info/events/Event_Oct_2016.aspx?Month=Oct&Year=2016

Name of the event: "Virtual Lab Workshop" Conducted By IIT, Delhi

Date of the event: 25th October, 2016

No. of Participant:242

Summary of the event: **Dronacharya Group of Institutions, Greater Noida** in association with **IIT Delhi** organized a workshop **"Virtual Lab"** on **25th October, 2016** with an objective to create awareness of Virtual Labs and its importance among students. **Mr. Sajeev Soni, System Analyst V Lab Mentor, IIT Delhi , Mr. Prateek Sharma, Field Engineer V Lab Mentor, IIT Delhi and Mr. Ashish Ranjan, Field Engineer V Lab Mentor, IIT Delhi** were the resource persons for the workshop. 242 students of **B.Tech 1st** and **2nd Year** attended the workshop.

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The event began with the floral welcome of **Mr. Sajeev Soni, Mr. Prateek Sharma** and **Mr. Ashish Ranjan** by **Prof. S.K. Bagga, Director, DGI, Greater Noida,** and **Prof. B. L. Kaul, Registrar, DGI, Greater Noida**. During the welcome address **Prof. Dr. S.K. Bagga,** stated that virtual Lab would be of great use for students from all the fields. He also focused on advantages of Virtual Lab.

Mr. Vinod Kumar, Virtual Lab Coordinator gave brief description about the Virtual lab. He also demonstrated the practical application of Virtual Lab.

First Technical Session began with the presentation on **"Overview of National impact of Virtual Lab on students and teachers"** by **Mr. Sajeev Soni.** He also discussed the daily usage and benefits of Virtual Labs. He explained the role and importance of Virtual Labs for bridging the gap between the syllabi of Technical Universities and existing Labs. He demonstrated experiment of Physics and Basic C Programming (Array, String etc) for 1st year students. After this, students performed the practical and provided online feedback.

In the second session , **Mr. Prateek Sharma** demonstrated experiments of Data Structure, Computer Programming and Digital electronics like **Expression Evaluation using Stacks, Sorting using Arrays, Basic Control Flow and circuit designing and current flow** for 2nd Year students.

Later, **Mr. Ashish Ranjan** demonstrated experiments of Chemistry and Physics like Acid Base Titration and Photo Electric Effect for the students of 1st year. He also discussed the application of Virtual lab in first year courses. Online feedbacks were sought by the students.

The session came to an end with a series of questions from the participants, which were answered by the experts. The workshop came to an end with group photograph and presentation of memento to the resource persons by **Honorable Director, Prof. (Dr.) S.K. Bagga.**

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Link of the Event:
https://gnindia.dronacharya.info/events/Virtual_Lab_2016.aspx?Month=Oct&Year=2016

Name of the event: Seminar on Cyber Security, Ethical Hacking and Bug Bounty

Date of the event: 24th October 2016

No. of Participant:10

Summary of the event: **IEEE Jamia Hamdard Student Branch** organized a Seminar on **Cyber Security, Ethical Hacking and Bug Bounty** on **24th October, 2016** at **Jamia Hamdard University.** 10 Students of B.Tech CSE & IT Branch from **Dronacharya Group of Institutions, Greater Noida** attended the seminar.

The seminar was graced with the presence of following dignitaries:

1. Rakshit Tandon, Cyber Security Advisor UP and Gurgaon Police.

2. Rahul Singh, Founder and CRO at RMAR.

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3. Deep Shankar Yadav,IT Security Analyst.

4. Devjeet Singh, Founder and MD at RMAR.

The seminar started with the inaugural speech by **Mr. Devjeet Singh.** It was followed by **Mr. Rahul Singh,** who described the concept of Ethical Hacking and the technique of Bug Bounty. He hacked **Md. Khwaja Meherbaan's (DGI student)** instagram ID using cookie method to show how account can be hacked.

The next session was conducted by **Mr. Rakshit Tandon** with the explanation of **Cyber Crime, Security Level etc.**

The last session was conducted by **Deep Shankar Yadav.** He focused on the topics of **Exploit Writing, Reverse Engineering, Penetration Test, WAPT, Wireless Testing** and **IT Forensic etc.** He also focused on the Man in the Middle Attack.

The seminar came to an end at 6 PM. It was very fruitful for the participants as they got to learn about **Cyber Crime**.

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Link of the Event:
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Name of the event: Workshop on E-LEADER National Entrepreneurship Network (NEN)

Date of the event: 7th & 8th October 2016

No. of Participant:1

Summary of the event: **National Entrepreneurship Network (NEN)** organized a two days' workshop on **E-Leader Workshop** on **7th & 8th October 2016** at **IMS Noida**. Thirty students from more than 12 institutes participated in the workshop. **Amanullah Hashmi** B. Tech. ME 3rd Year student participated in the workshop as a participant on behalf of **Dronacharya Group of Institutions, Greater Noida**.

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The objective of this workshop was to enhance the leadership skills in order to influence and manage people to promote the entrepreneurship revolution inside and outside the campus.

This workshop helped the participants with vital information like how to recognize and boast an Individual Leadership Skills, Managing and Transforming E-Cell, understanding the Entrepreneurial Eco System in campus, learning the power of Social Media, various WF NEN activities and how to inspire and be inspired to live the entrepreneurial dreams.

It was a great learning experience for the participants.

Dr. Kalpana Sinha, Head of Entrepreneurship Cell at **IMS Noida** encouraged the students to take Entrepreneurship as a way of life. She highlighted the importance of building networks, doing and learning the things that come during the way of being an Entrepreneur in the college itself that provides a risk - free environment.

Ms. Sanya Singh, Consultant at **National Entrepreneurship Network (NEN)** discussed the NEN way of building entrepreneurship on campus and the students' role in it.

The workshop enabled the students to gain the skills to realize their dreams, identify their leadership styles, the traits they need to develop to drive such entrepreneurship programs and E-Cells in their campuses also, learning the power of social media, various WF NEN activities and how to inspire and be inspired to live the entrepreneurial dreams.

NEN

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Name of the event: Workshop on Vehicle Design and Dynamics

Date of the event: 18th - 19th November, 2016

No. of Participant:36

Summary of the event: **DGI SAEINDIA COLLEGIATE CLUB** organized a workshop on **Vehicle Design and Dynamics** on **18th** & **19th November, 2016. Mr. Gaurav Singh** and **Mr. Ashwini Sharma** from **Association of Innovation and Mectra Engineers (AIME) India** were the resource persons for the workshop. 36 students from B.Tech (ME) attended the workshop.

The objective of this workshop was to help participants to learn concepts of designing and manufacturing which would groom their technical skills and promote interest in them.

Prof. D. V. Bhise (HOD, Mechanical Engineering) welcomed **Mr. Gaurav Singh** and **Mr. Ashwini Sharma** with a bouquet. During the welcome address he briefed the SAE events and their importance in student's life and career and explained them the value of automation in Mechanical Engineering.

Day 1: 18th November 2016

Mr. Ashwini Sharma started the session with the presentation on SAE events that included Supra, Baja and Effi-Cycle. He highlighted some important aspects of the event:

SUPRA

Mr. Sharma said that **SUPRA** is an event that challenges young minds to compete as teams in designing a Formula category vehicle. The objective is to develop a vehicle consisting of various sub systems, meeting engineering specifications, timelines and above all meeting safety standards. He further added that the event helps shape future engineers through competitive spirit and encompasses all elements of a vehicle building for aesthetics in design, to the choice of parts, through structure design and modeling, to fabrication and testing.

BAJA

While giving detail of **BAJA, Mr. Sharma** said that it is a team event which involves building a simple all-terrain vehicle for recreation purpose that is aesthetically and ergonomically sound while still being a fun and durable machine in the real world conditions. The evaluation process for the **BAJA SAEINDIA** is a twofold process and students have to clear the Virtual Baja preliminary round before they start manufacturing their vehicle for the main event.

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Effi-Cycle

Mr. Gaurav explained the concept of **Effi-cycle.** He gave detail of automobile with engineering aspects involved in it.

During the second session of the day, students were given some tasks including free hand sketching of exteriors of cars and design of chassis by using design software -Solid Works.

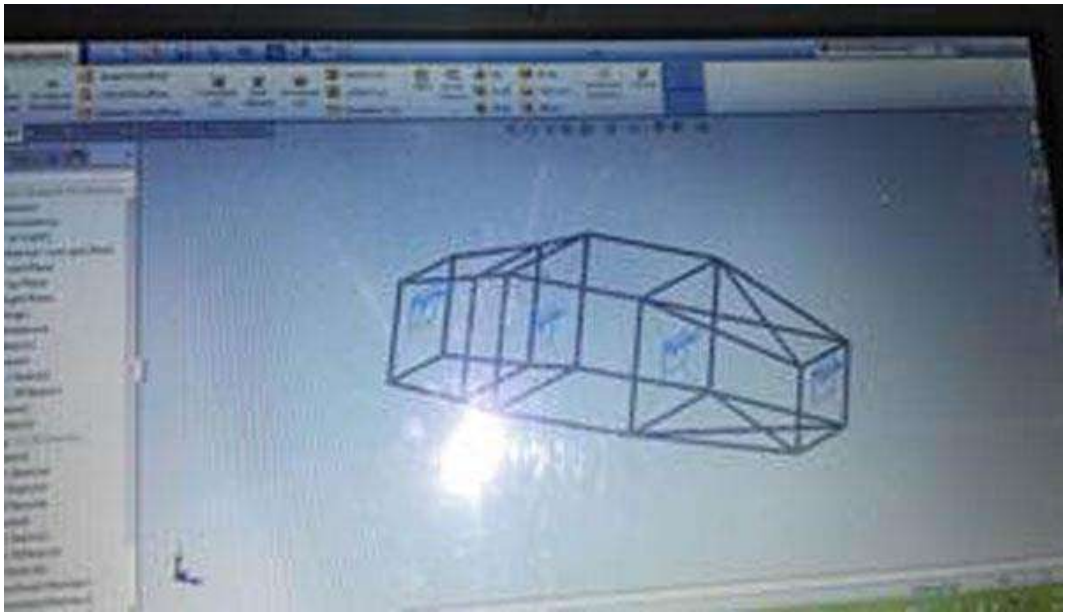
Day 2: 19th November 2016

The first session of the second day was dedicated to the basics of automobile including design of various assemblies like steering, braking system, suspension, tyres, engine and transmission. **Mr. Ashwini** briefed students about various calculations that are required in designing these assemblies. Students were given an assignment to design braking system of a vehicle by using **CAD.**

During the second session, **Mr. Gaurav** described the virtual round of SAE events and gave the software information like LOTUS, CATIA & SOLID WORKS for the virtual round. He explained how to design a virtual car by using these softwares. Later the students designed the SAE Baja model of the car in Solid Works

Q&A Session was held where students put forth their queries
about **SAEINDIA** competitions. The workshop was very interactive and informative and has instilled confidence in the students and made them aware about various SAE events as well as Vehicle Design & Dynamics.

The workshop ended with Vote of Thanks delivered by **Prof. D.V. Bhise (HOD, Mechanical Engineering).**



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Link of the Event:
https://gnindia.dronacharya.info/events/Vehicle_Design_2016.aspx?Month=Nov&Year=2016

Name of the event: 3 Days Workshop on Survey Camp Using Total Station

Date of the event: November 9th - 11th, 2016

No. of Participant:30

Summary of the event: **Dronacharya Group of Institutions, Greater Noida** in association with **Civil Simplified** and **Skyfi Lab, Bangalore**under the banner of **AGI** organized a three day Workshop on **"Survey Camp Using Total Station** from **9th to 11th November, 2016.** 30 students from Civil Engineering Branch participated in the workshop. **Mr. Sarvagya Tripathi,** Asst. **Prof.** from Department of Civil Engineering coordinated the workshop.

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Day 1: 9th November 2016

The first day sessions were divided into two parts. The first session started with the presentation by the trainer **Mr. Niranjan Yadav.** He emphasized on the theoretical part of the session including the basics of surveying, principle and classification of surveying, understanding of coordinate system and overview of surveying. Theoretical aspects of GIS were also covered.

During the post lunch session, students were given a lab session on **Quanta GIS 14 Software** by another trainer **Mr. Vasanth.** Importing the field survey data in csv format, orientation of map element such as sign symbol, direction symbol, name etc. on a map layout were covered in this session.

Day 2: 10th November 2016

On the second day field survey using Total Station was conducted. Temporary adjustment such as centering, leveling, focusing and removing parallax of total station and various parts of Total Station and their use were explained by the trainers during field surveying.

Job assigning, process to find coordinates of a point with reference point and outer area calculation of campus building were done by the students. Feature of open and close traverse and error adjustment of close traverse by Bowditch Formula of filed data were also discussed in the second session.

Day 3: 11th November 2016

On the third day activity started with job assigning to each student. Stacking out the data on field with reference of one known point, remote height calculation of college canteen and building were done.

Depression or ditch volume calculations by using **Quanta GIS 14 software** with the help of field measured reduced level were discussed in this session. In the last session, the workshop trainer gave assignment to each student and guided how to access online study material.

The survey camp came to an end with Vote of Thanks by **Prof. D V Bhise, HOD (ME).**

Students learnt the practical aspect of surveying during the three day workshop.

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Link of the Event:
https://gnindia.dronacharya.info/events/Survey_Camp_2016.aspx?Month=Nov&Year=2016

Name of the event: Webinar on Geo - Portal Application for e-Governance

Date of the event: 31st January 2017

No. of Participant:15

Summary of the event: A Webinar on ***Geo-Portal Application for e-Governance*** was organized by ***Indian Institute of Remote Sensing (IIRS), Dehradun*** under distance learning program through edusat on ***31st January 2017*** at ***Dronacharya Group of Institutions, Greater Noida***. The webinar was conducted by ***Dr. Harish C Karnataka (Head & Scientist SF, GIT&DL) IIRS, Dehradun***. The students of ***B.Tech (CSE / CIVIL) 1st & IInd Year*** attended the webinar along with ***Dr.Somanath Sinha (Assistant Professor, CSE)*** and ***Ms. Kiran Singh(Assistant Professor, APS).***

Dr. Karnataka gave a brief introduction to geospatial technology and explained Geo - portal application, popular geoportal and their services. The webinar also covered GIS & Information Technology, e-Governance and role of GIS.

Describing ***Global Navigation Satellite System (GNSS)*** and ***Remote Sensing (RS). Dr. Karnataka*** explained collaborative mapping and data services. He also explained Geographic Information Technology, working of GIS, Internet Technology and Internet Governance.

The session ended with a detailed description of ***Information & Communication Technology (ICT)*** in delivering government services to the citizen.

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Link of the Event:
https://gnindia.dronacharya.info/events/Webinar_Geo_Portal_2017.aspx?Month=Jan&Year=2017

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Name of the event: Workshop on Rapid Prototyping and 3D Printing

Date of the event: 27th & 28th January, 2017

No. of Participant:24

Summary of the event: A **Workshop on Rapid Prototyping and 3D Printing** was conducted by **DGI SAEINDIA Collegiate Club Dronacharya Group of Institutions, Greater Noida** on **27th & 28th January 2017**. 21 students from Mechanical and Electrical & Electronics Engineering branch participated in the workshop. The workshop was conducted by **Mr. Gaurav Siwal** (Assistant Professor) Department of Mechanical Engineering, **DGI.**

Prof. S. K. Bagga, Director, DGI inaugurated the workshop and addressed the participants with inspiring and motivational words while **Prof. B. L. Kaul, Registrar, DGI** encouraged them to be attentive and get benefited from the workshop.

Day 1: 27/01/2017

Mr. Gaurav Siwal, gave a brief description of **FDM Technology**, **Types of 3D Printing**, their application and scope in industries, materials used in 3D printers and Printing CAD file on FDM printers. Students were also informed about the Rapid Prototyping using 3D printing. During lab session participants were demonstrated the design software's available for 3D modeling, like **Catia and Solid Works**, **2D** and **3D Sketches**, application of different features to the parts and part assembly. Students were explained about important design considerations to be kept in mind while designing a model for 3D printing.

During the post lunch session students designed their models on CATIA software. After the completion of models they were given a demonstration on **Cura (Slicing Software)** and **Pronterface (Printing Software)** required for 3D printing. A small prototype was printed as a part of demonstration.

Day 2: 28/01/2017

Mr. Gaurav Siwal continued the workshop with discussion on important considerations for 3D printing of the objects. Calibration procedure for printing of the objects and working of stepper motor was also explained. For hands on training students were given a real world problem in which they were asked to design and 3D print a prototype of a Planetary Gear System. Participants were divided in five teams of four members each for the completion of the task. All the teams designed the 3D models keeping in mind the functional aspect of the product. Students designed and 3D printed the Prototypes.

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The workshop concluded with evaluation of prototypes printed by each team. Each design was evaluated for dimensional accuracy, density and surface finish. Students took keen interest in learning the fundamentals of the 3D printing technology during the workshop.

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Link of the Event:
https://gnindia.dronacharya.info/events/RapidPrototyping_2017.aspx?Month=Jan&Year=2017

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Name of the event: Visit to Intellect 2017 & DISTRIBUELEC India Expo Centre, Greater Noida

Date of the event: 25th January, 2017

No. of Participant:14

Summary of the event: **INTELECT 2017 & DISTRIBUELEC**, the three day exhibition cum conference was held at the **India Expo Centre, Greater Noida. The exhibition was inaugurated by Chief Guest, Shri Piyush Goyal - Hon'ble Minister of State (I/C) for Power, Coal, New and Renewable Energy and Guest of Honor, Shri Girish Shankar - Secretary, DHI, Ministry of Heavy Industries & Public Enterprises and Mr. Desh Deepak Verma - Chairman, Uttar Pradesh Electricity Regulatory Commission** and other key dignitaries such as **Mr. Sanjeev Sardana-President, IEEMA, Mr. Prakash Chandrekar-Chairman, Organizing Committee, Mr. Sunil Mishra - Director General, IEEMA** amidst an august industry gathering.

Mr. Brijesh Verma - Associate Professor and **Mr. Amit Jain - Assistant Professor** along with **12 students of ME, ECE and EEE Department** from **Dronacharya Group of Institutions, Greater Noida** attended the exhibition on **25th January 2017**.

With over **100 exhibitors**, the show brought together senior officials from **Ministry of Power, State Utilities, DISCOMS, IESA, India IOT Panel** and **TERI** under one common platform, to discuss global best practices and seek solutions to some of the most pressing challenges in the field of intelligent electricity.

This exhibition offered an opportunity to the students to enrich their **Technical Knowledge** and **Experience**. They got a chance to know about various companies involved in **Manufacturing Power Distribution Devices**and **Components**. They also came to know about **Solar Panel Installation** and **Maintenance**. The exhibition provided an opportunity to connect with the people from different industries. The visit also provided first-hand knowledge about **Automation Switches** and**Components** which can be programmed according to the user need.

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Link of the Event:
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Name of the event: International Conference (INTELECT - 2017) On "Evolving Trends in Intelligent Management of the Future Grid" India Expo Mart, Greater Noida

Date of the event: 23rd - 24th January, 2017

No. of Participant:5

Summary of the event: **A Two days International Conference on "Evolving Trends in Intelligent Management of the Future Grid"** was organised by **Indian Electrical and Electronics Manufacturers Association (IEEMA)** in association with **IEEE** and supported by **Ministry of Power, Govt. of India** during **23rd - 24th January 2017**at **India Expo Mart, Greater Noida**.

The objective of this conference was to bring exhibitors and senior officials from Ministry of Power, State Utilities, DISCOMS, IESA, India IOT Panel and TERI under one common platform, to discuss global best practices and seek solutions to some of the most pressing challenges in the field of intelligent electricity. Big stake holders of Power Industry, Govt. officials and ministers from power sector and academicians from different engineering colleges participated in the conference. **Prof. Vinod Kumar**, HOD - EEE along with four student of ECE 6th semester of **DGI, Greater Noida,** attended the conference.

Day 1: 23rd January 2017

Inaugural function of the Conference started at **11:30 AM** with lighting of lamp followed by welcoming the digneteris on the dias by presenting the bouquet. The dignatories included :

Mr. Piyush Goyal Chief Guest Hon'ble Minister of State for Power,
Shri Girish Shankar, Secretary, DHI, Ministry of heavy industries and Public enterprises,
Mr. Desh Deepak Verma, CEO, UP ERC,
Mr. Sanjeev Sardana, President IEEMA,
Mr. Prakash Chandrakar, Chairman Organizing Committee (INTELECT - 2017) and
Mr. Sunil Misra, Director General, IEEMA were also present.

In his inaugural speech, Chief Guest of the program, **Mr. Piyush Goyal** said, "India is world's largest market in power sector and we have billion people aspiring for better quality of life and have an nascent and latent energy demand which will expand this sector by almost four times in the next 15-17 years. Different estimates have been made out but very clear this is one sector where any amount of investment made has the fastest payback both in terms not only in economic terms but also in terms of quality of life of our people but also has a great deal to do with a necessity for the entire economic development of the country for years and years. Smart meters can be a game changer when it comes to planning the electricity sector in the long run".

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After the inaugural speech, **Mr. Goyal** felicitated **Mr. Vishnu Agarwal**, CMD, Technical Associates and **Mr. Anil Chaudhary**, country president and MD, schneider Electric for their contributions to the Indian electrical equipment industry.

Speaking on the inaugural of the **INTELECT - 2017, IEEMA** President, **Mr. Sanjeev Sardana** said, "The theme for this years INTELECT is **"Redefining Electricity for Smarter Living"** which is quite interesting as it is important to realize the need for intelligent electricity. Management of every watt of electricity from source to socket is essential to fulfil Prime Minister's dream of 24 X 7 clean and affordable electricity for all" by 2019.

Mr. Prakash Chandrakar, Organizing Committee Chairman, **INTELECT - 2017** said, "It is one of its only kind's exhibition cum conference, organised by IEEMA to showcase the Indian electrical industry's strength across the full electricity value chain.

Mr. Sunil Misra, Director General, IEEMA, said, "INTELECT is a great platform to experience evolving technologies and explore opportunities in the field of intelligent electricity. The coference has provided a focused platform for exhibitors to showcase their power distribution capabilities and solutions to a perfectly relevant audience."

There was an special session for Govt of madhya Pradesh on overview and opportunities in Power Sector in MP and the session were taken by **Mr. Sanjay Shukla,** Secretary Department of Energy & Chairman MPPMCL, **Govt. of Madhya Pradesh.**

Day 2: 24th January 2017

Conference started at **10:30 AM** on **24th January 2017** and following topics were covered during the day:

1. Session 1: The Future Energy World: Making the world a better place to live.
2. Session 2: Regulation, Grid code & policies on power sector & market mechanism.
3. Session 3: Leaveraging microgrid/smartgrid towards energy efficiency.
4. Cyber security- Threat, challenges and opportunity for T&D.

Moderator of session 1, **Mr. Vikram Gandotra** welcomed the speakers and requested **Mr. S. K. Soone**, Advisor, POSOCO to speak on "Impact of New enegy mix, grid stability and Market mechanisms and start the session. **Mr. Soone** highlighted the transmission capacity of India and said that we have:

1. 765 KV high capacity network.
2. 400 KV backbone network.
3. Millions of EHV transmission towers

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Dr. Rahul Tongia, scholar & Fellow at Brookings India talked on **"Sustainability with asset management & optimization of resourses".** He said that energy is surplus still we are not able to tranfer sufficient energy to end users because of reasons like:

1. Phase balancing is not done in India.
2. We belive business as usual (BAU).
3. We are not willing to say "No" to utility.

Mr. Debasis Gupta, GM, CESC talked on **"Urban Power Distribution – Challenges ahead"**. He said that a lot of physical challenges exists during the power distribution like river crossing etc. he said that asset optimization is very important and suggested for more and more automation at LT level. He also focused on **IT (Information Technology)** ant **OT (Operational Technology) integration.**

Mr. Atul Bali, DGM, National Smart Grid Mission, talked on **"Smart Grid – Use of other OT Technology".** He said that smart grid is basically the combination of Information and control. Intraoperability is the key challenge in smart grid.

Mr. Puneet H Singh, Director Energy & utility Ericssion, delivered his talk on **"Industry perspective and challenges in deployment".** He said that his company is the 5th largest telecom player in the world. He highlighted the key issues in deployment of smart metering.

Last session of the conference was on **"Cyber Security – Threat, Challenges and Opportunity for T & D".**

Lt. General Arun Sahani, (Retd) Indian Army spoke on **"Imortance & challenges of cyber security deployment". Lt. General Sahani** said that there are 3 biggest threats in the world i.e. water, migration and cyber security. So once any equipment is going to be designed it must be cyber secure and it should be taken care by that industry.

Mr. Dharmendra Kumar of TPDDL talked on **"OT security system Vs IT security system". Mr. P. K. Shrivastava, DGM, NTAMC (Powergrid)** spoke on **"Challenges in cyber security wayforward".** Last speaker of the conference **Mr. Sandeep Pathania,** Schneider Electric gave his presentation on **"Governance Process, standerdization, testing and certification".**

Valedictory session started at 5:00 PM on **24th January 2017.** During the valedictory **Mrs. Indra Prem Menon – Vice President, IEEMA, Mr. Prakash Chandraker, Chairman - Intelect - 2017** and **Mr. Sunil Misra, Director General - IEEMA** were present. **Mrs. Menon** rendered her vote of thanks to all the dignitaries, stake holders, academicians and other participants for making this conference grand success and meeting its objective in a fruitful manner. 2 days conference ended with high tea.

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held at

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2nd Exposition & Conference on Intelligent Electricity

23rd - 25th JANUARY 2017

INDIA EXPO CENTRE • GREATER NOIDA (NCR-DELHI) INDIA

Mr. Prakash Chandraker
Chairman, Organising Committee

Mr. Sanjeev Sardana
President, IEEMA

Concurrent Show: DistribuELEC | Conference Partners: DUPONT, RELIANCE

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Link of the Event:
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Name of the event: Awareness Workshop for Smart India Hackathon AICTE Auditorium at New Delhi

Date of the event: 18th January, 2017

No. of Participant:5

Summary of the event: **All India Council for Technical Education (AICTE),** under the aegis of Ministry of Human Resource Development, Govt. of India in association with Inter Institutional Inclusive Innovation Center (i4c), and Persistent Systems is organizing **'Smart India Hackathon 2017',** a unique initiative to identify new and disruptive digital solutions for solving the challenges faced by our country.

In this regard AICTE organized an **Awareness Workshop for Smart India Hackathon on 18th Jan, 2017** at **AICTE Auditorium at New Delhi.** The workshop was graced by :

Shri. Prakash Javadekar, Hon'ble Minister of HRD, Government of India

Dr. Anil Sahasrabudhe, Chairman, AICTE.

Dr. Manpreet Manna, Director, AICTE.

Dr. Abhay Jere, Secretary, Organizing Committee, Smart India Hackathon 2017.

SPOCs, Directors /Principals and Faculties along with the Students of AICTE approved institutions attended the workshop. Faculty members **Dr. Somnath Sinha** and **Sh. Ashwani Kumar** along with the students, **Vikas Rai, Sachin Verma & Apratim** represented **Dronacharya Group of Institutions, Greater Noida** at the workshop.

Inaugurating the workshop, **Dr.Manna** welcomed all the participants and gave a brief of **Smart India Hackathon 2017,** its structure, rules of participation and mode of idea submission.

Shri. Prakash Javadekar said that **Hon'ble Prime Minister, Shri Narendra Modi,** envisages the **'Digital India'** initiative to bridge the digital divide in our country and further promote digital literacy in order to make development a comprehensive mass movement and put governance within everyone's reach. **Sh. Javadekar** said that the PM also believes that, to ensure development youth should be involved in large numbers as they are capable of offering new, innovative solutions for some of the daunting problems faced by our nation e.g. water management, sanitation, affordable healthcare, sustainable environment, etc.

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Shri. Javadekar informed the audience that 29 ministries had given 598 challenging problems. **Till 17th January 2017,**601 ideas addressing 253 problem statements were received by **MHRD.** However, there are 345 problem statements still need to be addressed for which he encouraged the students to come forward and submit ideas.

Sh. Javadekar said that **SIH - 2017** will be a 36 hrs non-stop digital programming competition during which student teams will compete simultaneously at 25 different centers across India to offer innovative digital solutions for any given problem. Smart India Hackathon 2017 will be the biggest Hackathon initiative in the world, as it will reach out to 30+ lakhs technology students across all technology institutions in India recognised by AICTE. Through this initiative, student community will think out - of - the - box and offer innovative, disruptive yet sustainable ideas to build smart applications which will help in national development.

Seeing the enthusiasm of the students, **Sh.Javadekar** declared that the **last date of submission of ideas has been extended to 31st January 2017.** He said that he expected students from all the AICTE approved colleges to participate in**SIH - 2017.**

Dr. Anil Sahasrabudhe thanked all for showing interest in the participation of **Smart India Hackathon 2017**. He motivated the students to contribute for the Digital India transformation. He said that 1.25 billion nation is waiting to see the solutions to their problems. Their hope is 3 million bright, motivated technical students of India on whom the responsibility lies.

Dr. Abhay Jere opined that It could be a life changing opportunity for students to solve the problems of common man, government and the nation to make India 'smart'. This opportunity he said will give the students all the skills required to become employable, to be an entrepreneur, manager, leader and more importantly a satisfied human being. **Dr.Jere**encouraged them to take take their step forward towards the Smart India and win exciting prizes, which can change their life through out.

Member Secretary - AICTE and **Dr. Anil Sahasrabudhe** felicitated **Sh.Javdekar** with a memento.

Dr. Manpreet Manna, Director, AICTE rendered Vote of Thanks

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Link of the Event:
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Name of the event: Workshop on Open Modelica - Simulation & Modelling IIT Bombay

Date of the event: 4th - 5th January, 2017

No. of Participant:1

Summary of the event: **Indian Institute of Technology, Bombay** organized a **Two Days National Workshop on Open Modelica-Simulation & Modelling** on **4th & 5th January 2017.** The objective of the workshop was to enhance knowledge and skill of the participants regarding the use of **Open Modelica Simulator** in an effective way. Faculty members from 80 Educational Institutions across the nation participated in the workshop.

Mr. Manoj Kumar Yadav, Assistant Professor, CSE Department from **Dronacharya Group of Institutions, Greater Noida** attended the workshop as a delegate.

The event was graced by the following dignitaries:

1. "Padma Shri" Dr. Deepak B. Phatak, IIT Bombay

2. Prof. Kannan M. Moudgalya, Coordinator, Spoken Tutorial - FOSSEE, IIT Bombay

3. Prof. Peter Fritzson, Creator of Open Modelica, Linkoping University, Sweden

4. Bernhard Thiele, Researcher - PELAB, Linkoping University, Sweden

Day 1: 4th January 2017

The event began with the inaugural speech by **Prof. Kannan**. He emphasized on the need of Simulation Modelling software and said that the Simulation allows the designer to determine the correctness and efficiency of a design before the system is actually constructed. He also explained how the simulators can be used as an effective means for teaching or demonstrating concepts to students by using computer graphics and animation. He gave a brief on the benefits of Using Open Source Software **(software with source code that anyone can inspect, modify, and enhance),** which is the power of transparency to create high - quality, secure and easily integrated software at an accelerated pace and lower cost.

The technical session was conducted by **Mr. Peter Fritzson** who presented a brief description of Open Modelica Simulation and **Modelling Software**. He said that OM is a language for modelling of complex cyber - physical systems like Robotics, Automotive, Aircrafts, Satellites, Power Plants and Systems biology. He further said that the Modelling is primarily designed for simulation, but there are also other usages of models, e.g. optimization and model equations and mathematical functions. He discussed the Multi - domain modelling, which combines electrical, mechanical, thermodynamic, hydraulic, biological, control, event, real - time, etc. He also discussed the properties of Object Oriented Language and said that an Open Modelica Code is strongly typed object-oriented language with a general class concept like **JAVA & MATLAB** and it also supports Visual Component Programming. It contains inbuilt **Modelica Standard Library** for **Graphical Modelling.**

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Prof. Peter Fritzson said that **Modelica Standard Library** contains components from various application areas, including sublibraries are Blocks **(Library for basic input /output control blocks),** Constants **(Mathematical constants and constants of nature),** Electrical **(Library for electrical models),** Icons **(Icon definitions),** Fluid **(1-dim Flow in networks of vessels, pipes, fluid machines, valves, etc.),** Math **(Mathematical functions),** Magnetic**(Magnetic.Fluxtubes - for magnetic applications),** Mechanics **(Library for mechanical systems),** Media **(Media models for liquids and gases),** SIunits **(Type definitions based on SI units according to ISO 31-1992),** Stategraph (Hierarchical state machines **(analogous to Statecharts),** Thermal **(Components for thermal systems)** and Utilities**(Utility functions especially for scripting).**

Day 2: 5th January 2017

Mr. Bernhard Thiele gave a presentation on possible extensions to Open Modelica in which he discussed the Tighter Integration with **Functional Mock - up Interface (FMI) Technology.** He said that it is the new standard for model exchange and co-simulation with **Functional Mockup Interface (FMI)** which allows export of pre-compiled models, i.e., C-code or binary code, from one tool to another and vice versa. He said that the FMI standard is Modelica independent. Import and export works both between different Modelica tools, or between certain non - Modelica tools. **Open Modelica supports FMI 1.0 & 2.0.**

Mr. Thiele further discussed Discrete Events and **Hybrid Systems.** He said that **Hybrid Modelling** is a set of variables that are associated with the event e.g. conditional equations that become active.

After the **Q & A session Dr. (Prof.) Kanna M Mougyala** rendered Vote of Thanks.

The event was highly informative and beneficial as it created awareness of the benefits of technology integrated into instruction for effective pedagogical practice in an **Open Modelica Simulator environment.**

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Link of the Event:
https://gnindia.dronacharya.info/events/OpenModelica_2017.aspx?Month=Jan&Year=2017

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Name of the event: Workshop on Construction Project Management and Building Information Modeling

Date of the event: February 27, 2017 - March 2, 2017

No. of Participant:12

Summary of the event: A workshop cum Training on***Construction Project Management (CPM) and Building Information Modelling (BIM)*** was conducted by ***Civil Simplified (Skyfi Labs) - Hyderabad*** from ***February 27, 2017 to March 2, 2017*** at ***Dronacharya Group of Institution, Greater Noida*** .The workshop was coordinated by ***Mr. Gyanendra Kumar- Assistant Professor, Civil Engineering*** andattended by 18 Students of 4th Year Civil Engineering.

While inaugurating the workshop***Prof. D. V. Bhise - HOD*** highlighted the importance of project management in a construction project and its implementation in planning and organising the resources for efficient and effective working of the project.

Day 1: 27th February 2017

Mr. Vivek Singh, Trainer - Civil Simplified, presented a demonstration ofPrimavera6, a computer-aided building construction planning software program used to create blueprints for buildings, bridges and outline project. He said that Primavera6 became the most widely used CAD program in the world because of its robust set of automated planning tools and features.

Mr. Singh started with introduction to mastering Primavera6 and the pre-qualification needed for it. He then introduced students to quick and easy overview of managing projects with the help of Primavera6. He explained how to create a new project and establish the basic constraints that project will use for its calculations. During the day students learnt about:

1. Use of multiple methods to create a new project, including opening an Excel file and a SharePoint Tasks list.
2. Establish one or more calendars to constrain resource availability.
3. Configure Project to calculate the schedule from the Start Date forward, or from the Finish Date backward.
4. Adding Holidays to the company calendar.
5. Making a custom calendar.
6. Setting the Project Start date.
7. Setting of the constraints.

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Day 2: 28th February 2017

Mr. Vivek Singh **explained how to manually schedule project tasks and how to leverage the auto schedule and create a useful work breakdown structure and enter it into project. Students learnt the details of Project Schedule and Work Breakdown Structure i.e.**

1. Describe which project functions are turned off for tasks using Manually Schedule mode.
2. Change the task mode from Manually Schedule to Auto Schedule and back.
3. Identify tasks that are in Manually Schedule mode by the task mode column and shape on the Gantt chart.
4. Describe situations that are particularly appropriate for using Manually Schedule.
5. Describe the limitations that a user must be aware of when using Manually Schedule mode.
6. Students practice switching tasks between Manually Schedule and Auto Schedule modes and identify the impact that makes on the project schedule and the individual tasks.
7. Build and use summary and subordinate tasks, Understand and use milestones, Develop WBS Outlines and Assign completion criteria

Day 3: 1st March 2017

Mr. Vivek Singh **discussed the visual presentation of the planning and design of a building for the satisfaction of a client which is performed by introducing a new software of BIM (Building Information Modeling) i.e. ArchiCAD. He encouraged the students to get into the shoes of a Construction Manager and a BIM Engineer and develop necessary skills needed for efficient project management. Students learnt the following:**

1. What BIM is all about and how to interpret it
2. How to Mass model a structure using Morph Tool
3. Follow a project timeline from initial phase till completion
4. Generate BIM models and develop an efficient project
5. Experience a live construction project case study

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Day 4: 2nd March 2017

On the final day *Mr. Vivek Singh* discussed rules for establishing dependency link between tasks and presented the features to use project to establish and display these dependencies, how to enter resources and specific resource information in Primavera6 and assign resources to specific tasks. Students get to know about the following in detail:

1. Mass Modeling with Morph tool

2. Creating various structural elements with preloaded data

3. Generate 3D documents from Floor Plans

4. Interactive Scheduling and Visualization

5. Refining Surfaces and Publishing

6. Sequencing activities effectively using PDM relationships

7. Tracking Project Progress with Baseline

8. Risk identification and Management

9. Generate Analytical and Graphical reports

10. Case studies on Industrial projects

The workshop cum training session was a new experience and a good learning opportunity for the students as well as for the faculties.

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Link of the Event: https://gnindia.dronacharya.info/events/events-Feb-2017.aspx?Month=Feb&Year=2017

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Name of the event: Multibody & Hydraulic Simulation with Simscape Hotel Crown Plaza, Gurgaon

Date of the event: 07th February, 2017

No. of Participant:2

Summary of the event: A Technical Seminar on **Multibody & Hydraulic Simulation with Simscape** was organized by **Mathworks** at **Hotel Crown Plaza, Gurgaon** on **7th February 2017**. **Mr. Harshit Kumar,** Assistant Professor of Mechanical Department and**Mr. Amit Jain** Assistant Professor of Electronics and Communication Engineering Department from **Dronacharya Group of Institutions, Greater Noida** attended the Seminar.

Mr. Devendra Singh, Application Engineer, Mathworks started the seminar with introduction to MatLab. The First Session was on Multi - Domain Modeling MATLAB and Simulink in Automotive Application were discussed. **Mr. Singh** also included case - studies from automotive industries like "**How Tata Motors Developed Engine Management System for Tata Nano, the World's Least Expensive Car**". Modeling Multi - domain Systems using Physical Modeling Tools were also a part of discussion.

The topic for the Second Session was **Mechanical System Design using Simscape (Physical Modeling)**. **Mr. Singh**explained about Simscape and said that it is another tool of MATLAB just like SIMULINK yet further simplified for simulation of mechanical and electrical systems. The topics of **Multi - Body Dynamics Simulation, Importing CAD models** into Simscape and Performing Multi Body Dynamics analysis with SimMechanic sand SimWise4D were also the part of discussion.

Third and the last session was on Hydraulic System Design & Real-Time Testing in which **Mr. Singh** discussed the following topics:

1. Modeling hydraulic systems with components such as valves, cylinders, and pipelines,
2. Create custom components with Simscapelanguage
3. Automatically tune parameters of components to meet system requirements
4. Run simulations in real-time for HIL testing

While delivering Vote of Thanks, **Mr. Devendra Singh** thanked **Mr. Srinivas Rao N**, **General Manager (Tech. Administration) Maruti Suzuki, India limited**, for his efforts in opening the seminar.

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Link of the Event:
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Name of the event: One Day Workshop On Industrial Design: Process and Importance

Date of the event: 28th February 2017

No. of Participant:35

Summary of the event: A workshop on **Industrial Design: Process and Importance** was conducted at **Dronacharya Group of Institutions, Greater Noida** on **28th February 2017**. The workshop was organized by **DGI SAEINDIA COLLEGIATE CLUB** in association with **Institute of Industrial Design (IID), New Delhi**. The workshop was attended by Mechanical 3rd Year students. The objective of the workshop was to make students aware about the product design process used by industries and to develop designing, drafting and analysis skills as per the requirement of the industry. Institute of Industrial Design is a premium arm of **CADD Centre Training Services Pvt. Ltd.** To bridge the skill gap, CADD Centre through ï¿½ IID is imparting advanced training focusing on engineering skills and tools.

Welcoming the trainees, **Prof. D. V. Bhise**-HOD, Mechanical Engineering, highlighted the objective of organizing the workshop. **Prof. Bhise** added that skill development is need of the hour; students must supplement their theoretical knowledge with practical know-how of design.

The workshop portrayed various computational methods in Mechanical Engineering Viz. **Concept Sketching, Automotive Styling** and **Product Styling, Model Making (Clay), Ergonomics FEM, ANSYS** and **CFD (ANSYS Fluent)**.

The first keynote session was conducted by **Mr. Priyanshu**-Design Consultant, IID who explained the stepwise process of design for industrial products. Mr. Priyanshu also presented an overview of the design process for connecting rod of an IC engine. He demonstrated the applicability and limitation of different soft wares used for this purpose.

Mr. Arun Kumar-Principal Consultant, IID discussed about designing of body of a car in **Auto Desk** software. Basic tools to make a design of an outer shell of car and wheel alignment were presented.

The concluding session was conducted by **Mr. Ravi Kumar**-Assistant Manager, IID. **Mr. Ravi** gave a demonstration of **Product Lifecycle Management (PLM)** beginning from designing to manufacturing and the respective software used for it. He further added that vast numbers of job opportunities are available for Mechanical Engineering students in the design field. To grab the opportunities one must have the requisite **CAD skills**. He also explained about the advanced user capabilities of **Auto Desk** software over other commercial software available in the market.

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The workshop was highly interactive and students raised relevant queries which were satisfactorily answered by the resource person.

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Link of the Event: https://gnindia.dronacharya.info/events/workshop-2017.aspx?Month=Feb&Year=2017

Name of the event: CISCO - Workshop On Basic Concept of Computer Network Design

Date of the event: 28th - 29th March 2017

No. of Participant:50

Summary of the event: ***DGI - IEEE Student Chapter*** in association with ***DGI - CISCO Networking Academy*** organized a Two Day s Workshop on ***Basic Concept of Computer Network Design*** on ***28th - 29th March 2017***. Fifty students from CSE, IT, CSIT, ME, ECE and EEE participated in this workshop.

The objective of the workshop was to create awareness and help students develop skills of Network Design, Network Devices and make them understand the need of Routers, Switches, VLANs and enhancing their knowledge of Networking.

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The program was coordinated by students ***Mr. Apratim Kumar Singh*** from CSE second Year and ***Ms. Yashi Malhotra***, from CSE Third Year.

27th March 2017

A preliminary session on **Network Design** was conducted by ***Mr. Manoj Kumar Yadav*** and ***Dr. Somnath Sinha, CISCO Instructor, DGI Greater Noida*** on ***27th March 2017***.

Mr. Manoj Kumar Yadav highlighted the importance of CISCO Certification and benefits of various networking courses i.e. CCENT and CCNA etc. provided by ***CISCO Networking Academy***. He held a technical session which included the discussion on Ethernet, Network Layer and transport Layer. He also explained the operation of the Ethernet sub-layer, the purpose and characteristics of the Ethernet MAC address using CISCO - Simulator.

Dr. Somnath Sinhadescribed the structure of an IPv4 address and the purpose of subnet mask. He explained multi task addresses, the role of ICMP in an IP network and uses of ping and traceroute utilities to test network connectivity.

28th March 2017

Dr. S.K Bagga - Director, DGI, Greater Noida welcomed the Resource Person ***Mr. Siddharth Rajbhatt, Network Security Specialist [MPSEDC Ltd.]*** with a bouquet.

Mr. Rajbhatt started the first session with an explanation of ***CISCO Packet Tracer (Simulator).***He delivered a lecture on***Virtual Local Area Network (VLAN), VLAN Implementation, VLAN Security and Design and its Troubleshooting***using Cisco Packet Tracer. He discussed Network Layer, Design Issues in the Network Layer, Routing Algorithms and Network Layer in the Internet.

While conducting a session on Dynamic Routing, ***Mr. Siddharth Rajbhatt*** explained the basic operations of protocols, compared dynamic and static routing and also discussed about Broadcast Domain with proper troubleshooting. He also provided students with a task to design a working network design based on concepts on VLAN.

29th March 2017

Mr. Siddharth Rajbhatt demonstrated the best routes to transfer data from one node to another. He explained how routers communicate between each other in order to complete the task. He further discussed the routing protocols i. e. ***Routing Information Protocol (RIP)*** and ***Open Shortest Path First (OSPF)***.

He also discussed about implementation of ACL and NAT characteristics, the benefits and drawbacks of NAT. He configured static NAT, dynamic NAT and port forwarding using the Command Line Interface (CLI). He explained in detail the various strategies that customers and network engineers can use to troubleshoot their networks for optimal performance.

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Mr. Rajbhatt provided a very impressive introduction and comprehensive outlook towards Computer Network Design.

The workshop ended with presentation of Memento to ***Mr. Siddharth Rajbhatt.***Participation Certificates were distributed to the students. ***Mr. Manoj Kumar Yadav, CISCO - Coordinator proposed Vote of Thanks.***

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Link of the Event:
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Name of the event: One Day Workshop on Basics of Foundry Practice

Date of the event: 4th March, 2017

No. of Participant:22

Summary of the event: A one day workshop on **Basics of Foundry Practice** was organized under the aegis of **CoESM (Training partner of MSME, Govt. of India)** at **Dronacharya Group of Institutions, Greater Noida** on **4th March 2017**. **21 students** of B. Tech. Mechanical Engineering 2nd Year participated in the workshop. **Mr. Brijesh Verma - Associate Professor**Department ofMechanical Engineering **Dronacharya Group of Institutions, Greater Noida** coordinated the workshop.

The aim of this workshop was to make students familiar with common practices and skills used in foundry to make castings and further develop new tools and techniques for enhancing quality products through casting process.

While addressing the participants, **Prof. (Dr.) S. K. Bagga - Director, DGI Greater Noida** emphasized on the importance of the workshop., **Prof. D. V. Bhise - HOD**, **Mechanical Engineering** highlighted the latest trends in Mechanical Engineering and motivated students to gain knowledge, skills and training alongside their academics. **Prof. B. L. Kaul - Registrar, DGI Greater Noida** motivated them for better understanding of the practice.

Mr. Brijesh Verma - Coordinator started the workshop with a lecture on foundry practice and covered following topics during his lecture:

1. Introduction of casting

2. Need of casting

3. Steps of casting

4. Types of castings

5. Sand casting and procedure

6. Foundry tools and equipment's

7. Casting defects

8. Inspection of castings

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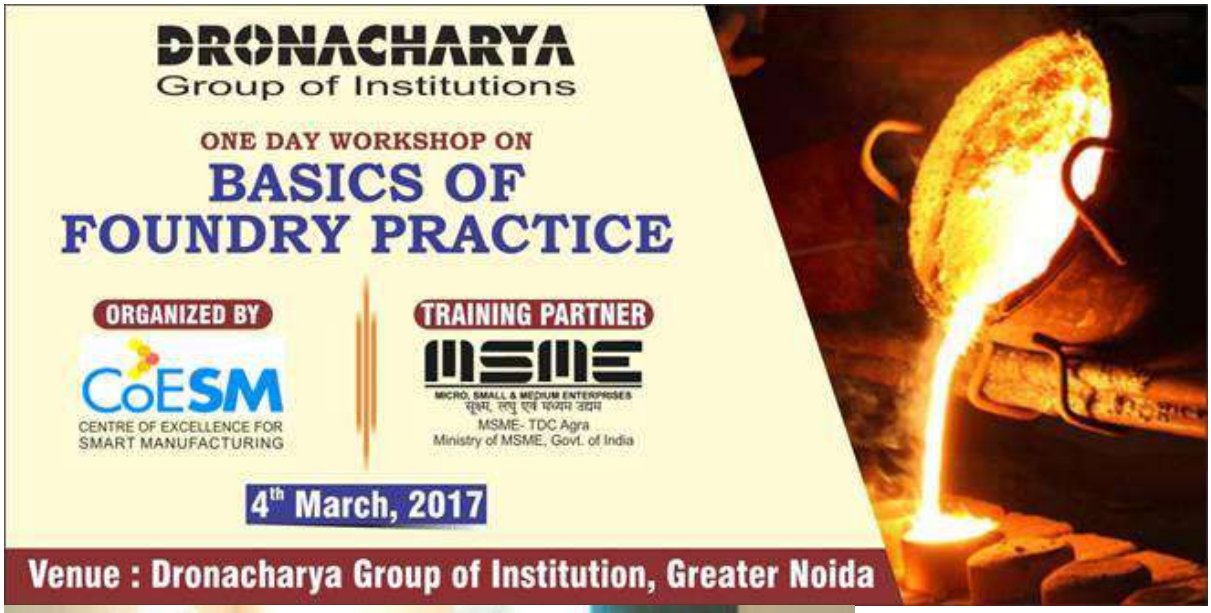
After lecture session students practiced of sand preparation for making mold by using appropriate compositions of sand, water clay and molasses. They learned the process of making mold cavity using molding sand, pattern and foundry tools. The students also learned to prepare mold cavity for split pattern. They learned the use of gas fired furnace melt aluminum metal.

The workshop provided a golden opportunity for the students to practice first hand, what they were studying in their Theory Classes.



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Link of the Event:
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Name of the event: Workshop on Integrated Automation Technologies (PNEUMATICS)

Date of the event: 1st March - 3rd March, 2017

No. of Participant:30

Summary of the event: **DGI SAEINDIA Collegiate Club** in association with **FESTO** organized a workshop on **Integrated Automation Technologies (Pneumatics) at Dronacharya Group of Institutions, Greater Noida** during **1st March - 3rd March 2017**. 30 students from Mechanical Engineering & Electrical and Electronics Engineering Branch participated in the Workshop.

The workshop was inaugurated by **Prof. (Dr.) S. K. Bagga - Director** and **Prof. B. L. Kaul - Registrar Dronacharya Group of Institutions, Greater Noida**. **Prof. Bagga** addressed the participants with his inspiring and motivational words while **Prof. Kaul** encouraged the participants to be attentive and get benefited from the workshop.

Day 1: 1st March 2017

Mr. Kumar Swamy - General Manager (Didactics), FESTO gave a brief description of Automation Technology, its evolution and role in Manufacturing Industry. Participants were informed about various technologies like **Hydraulic, Pneumatic, Electro Pneumatic, PLC and Bionics**. The course covered the Pneumatic Technology of Automation.

During post lunch session, participants were demonstrated various valves and cylinders used in Pneumatics.

Day 2: 2nd March 2017

Mr. Gaurav Siwal - Assistant Professor, Department of Mechanical Engineering, DGI explained about the symbols of various components like **Service Unit, Manifold, Valves, Push Button, Selector Switch, Roller Switch, Single Acting Cylinder and Double Acting Cylinder**. He also discussed real world problems from manufacturing industry. Circuit diagrams and circuit connections on workstation for such problems were explained by **Mr. Siwal.**

Day 3: 3rd March 2017

Mr. Siwal continued the third day's session with the problems and their circuit solutions.

In the afternoon participants visited the **FESTO Facility Center** located in Noida where **Mr. Arpit Agarwal** interacted with the participants and briefed them about the Company. Several presentations and clips were shown to participants for better understanding of Pneumatics. After the tea break, **Mr. Kumar swamy** explained the concept of sequencing and signal overlapping.

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The workshop concluded with the photo session and word of thanks from **Mr. Swamy** and **Mr. Siwal**. Students took keen interest in learning the fundamentals Pneumatics as a part of Integrated Automation Technologies.

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Link of the Event:
https://gnindia.dronacharya.info/events/PNEUMATIC_2017.aspx?Month=Mar&Year=2017

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Name of the event: Seminar on Evolving Integrated Geospatial Policy and Strategy for India India International Centre New Delhi

Date of the event: 12 April 2017

No. of Participant:2

Summary of the event: **Association of Geospatial Industries (AGI)** organized a **Seminar on Evolving Integrated Geospatial Policy and Strategy for India on April 12, 2017** at **India International Centre, New Delhi**. **Mr. Gyanendra Kumar** and **Ms. Krishna Goala**, Assistant Professor, Civil Engineering Department **Dronacharya Group of Institutions, Greater Noida** attended the Seminar.
The Seminar was inaugurated by **G. Satheesh Reddy**, Scientific Advisor to Defense Minister and **Mr. Srinibas Patnaik**, Secretary General, AGI who delivered the Welcome Address.

Mr. Sanjay Kumar, President, AGI opened the session with his talk on **Geospatial Value in Indian Economy: Prospects and Challenges .** He said that Geospatial Information Policies play a key role in addressing legal and administrative requirements which enable easy access, data quality, ownership clarity and integrity of Geospatial Information (GI). With Geospatial Information becoming ubiquitous, the need for a single comprehensive, co-ordinated and cohesive GI policy is an imperative. Considering the need for one NGP, AGI Governing Council decided to set up a Working Committee for National Geospatial Policy.

Session 1
Dr. Shailesh Nayak, Distinguished Scientist, Earth System Science Organisation, Ministry of Earth Sciences started the session with the introduction of earth sciences and Geospatial Policies. He said that there are few countries that are using and developing Geospatial Technologies but when we talk about US and China, they are harnessing the best potential of the GIS and RS since years. **Dr. Nayak** further added that there should be three goals in developing the Geospatial policy and technology i.e.:

- Timely and easy access to the data to various stakeholders.
- Must have decision support system.
- Institutional mechanism for training and providing world class GIS technology.

Ms. Bharti Sinha, Executive Director AGI presented the Rationale and Relevance of this open session to discuss the need of a comprehensive, cohesive and collaborative Geospatial Information Infrastructure, Policies and Framework for India. She said that the usage of Geospatial Information is now being driven primarily by technological advancements, industry requirements and value derived from its usage.

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Session 2

A Panel Discussion on Evolving Integrated Geospatial Policy and Strategy for India was held with the panelists included **Dr. P.G. Diwakar**, Scientific Secretary (ISRO), **Dr. Swarna Subha Rao**, Surveyor General of India, **Dr. Bhoop Singh**, Head NRDMS & NSDI, **Lt. Gen AKS Chandel (Retd)**, President, Defense Security and Public Safety, **Mr. Rajan Aiyar**, Senior Vice President, AGI, **Mr. Srinibas Patnaik**, Senior Director, Digital Globe, **Mr. Rakesh Verma**, President, SAMA and **Mr. Sanjay Kumar** chaired the panel discussion.

The panel discussed and agreed for a National GI Policy which is Cohesive, Comprehensive and coordinated with everything at one place and recommended for DST to play a proactive role in bringing co-ordination with Specific Guidelines and timelines. The participants representing the cross section of geospatial industry also shared their views at the open session. A consensus was reached among the panel and the participants agreed on 10 point resolutions which would be shared with the concerned government departments

The Seminar served as a single platform to discuss the concerns and challenges of Indian geospatial industry and thereby steer the industry towards a growth path and work towards promotion and propagation of Geospatial Technologies for the benefit of society at large.

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Link of the Event: https://gnindia.dronacharya.info/events/seminar-agi.aspx?Month=Apr&Year=2017

Name of the event: Workshop on Design of Hydraulic Structures

Date of the event: 12th April, 2017

No. of Participant:33

Summary of the event: A One day workshop on **Design of Hydraulic Structures** was organised by **AGI Chapter Dronacharya Group of Institutions, Greater Noida** on **12th April, 2017. Dr. A. K. Keshari, Professor, Civil Engineering Department IIT Delhi**was the Recourse Person of the workshop. **Thirty Three** students from Civil Engineering Department, **DGI,** attended the workshop**.**

Prof. (Dr.) S. K. Bagga, Director - DGI Greater Noida welcomed **Prof. Keshari** and advised the students to attend the lecture with complete sincerity and take advantages from the lecture.

Prof. Keshari started the session with **Introduction of Hydraulic Structures and their types. Prof. Keshari** discussed the classifications of structure along with the terms related to all Hydraulic Structures. In his lecture, he explained **dam, spillway, weir, barrage, cross drainage works, canal regulation, river training works, rain water harvesting structures, surge tank** etc.

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Prof. Kesharifurther discussed about different types of forces that act on gravity dams such as **water pressure, self - weight, uplift pressure, earthquake pressure, ice pressure, wave pressure, silt pressure**. He focused on different variants of forces on structure under certain load conditions. He also explained how earthquake pressure is different for different zones and also discussed the concept of hydrodynamic pressure under different zones.

During the post lunch session **Prof. Keshari** discussed **Design of Hydraulic Structures.** He said that a hydraulic structure can be built in rivers, a sea, or any body of water where there is a need for a change in the natural flow of water.

Prof. Keshari stressed that Hydraulic Structures may also be used to measure the flow of water. When used to measure the flow of water, hydraulic structures are defined as a class of specially shaped, static devices over or through which water is directed in such a way that under free-flow conditions at a specified location (point of measurement) a known level to flow relationship exists. Hydraulic structures of this type can generally be divided into two categories: flumes and weirs. **Prof. Keshari** discussed the stability factors of hydraulic structures along with the failure causes of structures. He gave an overview on the channelizing of rivers, concept of meandering, and also variation in discharge of river at Farakka barrage. He highlighted about the change of course of rivers since 1960's to 2015 at the barrage along with the satellite view records since 1960's.

Session concluded with discussion on doubts and queries raised by students.

It was an enlightening session in which **Prof. Keshari** shared his rich experience on **Design of Hydraulic Structures**.

The workshop ended with the presentation of memento to **Prof. Keshari** by **Dr. S. K. Bagga**. **Prof. D. V. Bhise, HOD Civil Engineering** delivered the Vote of Thanks.

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Link of the Event:
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Name of the event: Workshop On E-Myths

Date of the event: 7th - 8th April 2017

No. of Participant:138

Summary of the event: A Workshop on **"E-Myths"** was organized by **"Footsteps"** for **First Year Engineering students** on **07th - 08th April 2017**at **Dronacharya Group of Institutions. Mr. Rohit Sinha, NXP Semiconductors** was the Resource Person. Students of First Year participated in two batches:

1. **77 students of CSIT / IT / ECE / EEE / ME / CE on 07th April 2017.**
2. **51 students of CSE on 08th April 2017.**

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Prof. (Dr.) S. K. Bagga, Director - DGI Greater Noida gave the welcome address and introduced **Mr. Rohit Sinha** to the participants. **Prof. T. P. N. Singh** rendered the introductory address and apprised the students of the importance of creativity and innovation. He stressed the need of Entrepreneurship Eco - system and appreciated the efforts put in by **Mr. Rohit Sinha** in this direction.

Mr. Rohit Sinha stated that 82% of Engineering Students complete the course to find that they actually lack the necessary employability skills. His workshop is designed to bridge the gap between myth and reality. He assured the students that at the end of the program they will be able to:

1. **Look at engineering with interest and passion.**
2. **Have increased confidence in seeing themselves through the career they have chosen.**
3. **Achieve increased creativity and collaborative outcomes.**
4. **Develop leadership skills.**
5. **See an improvement in teamwork, creativity and communication skills.**

Mr. Rohit conducted various activities which involved all the students. Initially he made an attempt to introduce the students to each other. Further he divided them into teams and projected a video clip from to assess the basic knowledge of the students. The students were asked to trace the elements of physics used in those clips. Through an activity of cartoon drawings he made them play a game of improving communications, staying focused, making use of eye contact and achieving the desired objectives.

The students interacted and responded with great enthusiasm in all activities. In the second session the students were provided material to make a creative model for balancing weight. He discussed various tenets like Archimedes principle, Pascal's theory and Newton's law etc. His activities were based on the concepts which were propounded by these theorists. Lastly, the students were made to realize the challenges and hardships one will encounter in achieving major goals of life like completing the four year engineering course, good placement and so on.

The workshop came to an end at 03:00 pm on **08 April 2017**.

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Footsteps

Workshop on "E - Myths"

7th - 8th April 2017

Conducted By

FOOTSTEPS

ORGANIZED BY
DEPARTMENT OF APPLIED SCIENCES

Venue: Dronacharya Group of Institutions, Greater Noida

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Link of the Event: https://gnindia.dronacharya.info/events/Workshop_E-Myths_2017.aspx?Month=Apr&Year=2017

Name of the event: Seminar on Ports & Industrial Corridor India International Centre – New Delhi

Date of the event: 7th April, 2017

No. of Participant:17

Summary of the event: In view of the Government of India's focus on developing Ports in India and its signature Industrial Corridor projects, the**Consulting Engineers Association of India (CEAI)** organized a **Seminar on Ports & Industrial Corridors** on **April 7, 2017** at **India International Centre, New Delhi**. **Mr. Gyanendra Kumar**, Assistant Professor, along with 16 students of Civil Engineering Department **DGI, Greater Noida** participated in this Seminar.

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The Seminar was inaugurated by **Mr. Mansukh L Mandaviya (Hon'ble Minister of State, Road, Transport, Highway, Shipping, and Chemicals & Fertilizers) Govt. of India**. In his address the minister shared the initiatives of the government in developing ports and asked all the participating company delegates to innovate and help government in their efforts.

While delivering the Welcome Address **Ms. Sanoya Philip, President CEAI** asked the participants to comply with the technology.

The seminar comprised of four sessions: **Session - 1 was on Ports, Session - 2 was on Industrial Growth Centre, Session - 3 on Port Connectivity & Logistics** and **Session - 4 consisted of Panel Discussion.**

Session - 1 (Ports):

The chair for the session was **Padmashree Dr. Z. S. Tarapore (Former Director CWPRS)**. The session focused on ports construction and the technology know- how. It was discussed that the major and minor ports are handling 95% of the EXIM Cargo and the remaining is handled through air transport.

The panel was of the opinion that the coastal movement of the vessels would not create any pollution with emission of gases harmful to atmosphere.

Session - 2 (Industrial Growth Centre):

The session was chaired by **Mr. Paritosh Gupta (MD IL&FS Infra Development Corporation, IIDC).** The discussion was based on the industrial corridor development for the overall development of an area. Such corridors are often created in areas that have preexisting infrastructure, such as ports, highways and railroads. These modalities are arranged such that an**"arterial"** modality, such as a highway or railroad, receives **"feeder"** roads or railways.

Session - 3 (Port Connectivity & Logistics):

The Session dealt on the importance of the logistics and the connectivity of the ports. It session was chaired by **Capt. S. R. Patnaik (Director& CEO, International Shipping and Logistics).** Speakers were of the opinion that the development of industrial corridors will ensure there is cargo both ways and customers enjoy the benefits of reduced costs. Subsidies, low tax zones, and other incentives could be of great help.

The implementation of **Goods and Service Tax (GST)** will also make major changes and will play a vital role in Budget 2017. GST would bring about consolidation of warehouses which would now be set up closer to the area of consumption.

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Session - 4 - Panel Discussion

The Last session of the Seminar focussed on the effective management and implementation of the various schemes in collaboration with the public private partnership. The session was chaired by **Mr. K. K. Kapila (CMD, ICT Pvt. Ltd.). Mr. Kapila** deliberated that post the successful rollout on **1 July 2017,** the Centre and states will have to work in great sync to make the most of GST and derive mutual benefits.

The Seminar was full of information and guiding principles regarding initiatives taken by Govt. of India in the development of Industrial corridors.

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Link of the Event:
https://gnindia.dronacharya.info/events/Seminar_Ports_2017.aspx?Month=Apr&Year=2017

Name of the event: One Day Workshop on Introduction to Signal Processing

Date of the event: 3rd April, 2017

No. of Participant:35

Summary of the event:

A One Day Workshop on **Introduction to Signal Processing** was organized by **IEEE Student Branch**, **Dronacharya Group of Institutions Greater Noida** on **3rd April 2017** for the students of ECE 2nd, 3rd and 4th Year, IT / CSIT 3rd Year and EEE 4th Year. **Prof. (Dr.) S. D. Joshi, Head of Department - Electrical Engineering**from **IIT Delhi** was the resource person of this workshop.

Prof. (Dr.) S. K. Bagga, Director - DGI Greater Noida welcomed **Prof. Joshi** and advised the students to attend the lecture with sincerity and reap advantage of this lecture.

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Prof. Joshi started his session with **Introduction of Signal, System and Its Application** in various fields such as **Signal Processing**, **Communications and Control Systems** etc. He also discussed the classifications of signals and their differences. In his lecture, he emphasized on different properties of system like Causal, Non - causal, Time variant, Time invariant, linearity and stability. Later, he illustrated each property of system with real time applications.

Prof. Joshi further discussed about Time Invariant System and Linear System. He also explained about **Periodicity, Causality, Stability** and **Reciprocity of the System**. He said that the study of Linear Time Invariant System play important role in the field of research and development. He focused on concept of vector space, linear independence and concept of subspace. He also talked about difference between metric vector space and normed vector space.

He further discussed about the Random process and Random variables and their significances in the field of signal processing. He gave an overview of Statistical Averages, Density and Joint Density function. At the end of the session, there was questionnaire round for students. All the students were spell bound during the entire session and they were thankful to **Prof. Joshi** and college for organizing such a knowledgeful session for them.

After the lecture, **Prof. S. K. Bagga** presented memento to **Prof. Joshi**. **Prof. Vinod Kumar**, **HOD - ECE** rendered vote of thanks to all the participants and **Prof. Joshi.**

It was an enlightening session in which **Prof. Joshi** shared his rich experience in the field of **Digital Signal Processing**,**Statistical Signal Processing**, **Image Processing** and **Group Theoretical Approach** to **Signal / Image Processing**.

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