

**DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY,
UTTAR PRADESH, LUCKNOW**



**EVALUATION SCHEME & SYLLABUS
FOR
B. TECH. THIRD YEAR**

- **Computer Engineering and Information Technology**
- **Computer Science and Information Technology**
- **Information Technology**

**Based
On**

NEP2020

(Effective from the Session: 2024-25)

B.TECH (Computer Engineering and Information Technology , Computer Science and Information Technology, Information Technology) CURRICULUM STRUCTURE

SEMESTER- V													
Sl. No.	Subject	Subject	Periods			Evaluation Scheme				End Semester		Total	Credit
	Codes		L	T	P	CT	TA	Total	PS	TE	PE		
1	BCS501	Database Management System	3	1	0	20	10	30		70		100	4
2	BCS502	Web Technology	3	1	0	20	10	30		70		100	4
3	BCS503	Design and Analysis of Algorithm	3	1	0	20	10	30		70		100	4
4	BCS051-054	Departmental Elective-I	3	0	0	20	10	30		70		100	3
5	BCS055-058	Departmental Elective-II	3	0	0	20	10	30		70		100	3
6	BCS551	Database Management System Lab	0	0	2				50		50	100	1
7	BCS552	Web Technology Lab	0	0	2				50		50	100	1
8	BCS553	Design and Analysis of Algorithm Lab	0	0	2				50		50	100	1
9	BCS554	Mini Project or Internship Assessment*	0	0	2				100			100	2
10	BNC501/ BNC502	Constitution of India/ Essence of Indian Traditional Knowledge	2	0	0	20	10	30		70			
		Total	17	3	8							900	23
*The Mini Project or internship (4 weeks) conducted during summer break after IV semester and will be assessed during V semester.													
Minor Degree/Honors Degree MT-1/HT-1													

B.TECH (Computer Engineering and Information Technology , Computer Science and

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SEMESTER- VI

Sl. No.	Subject Codes	Subject	Periods			Evaluation Scheme				End Semester		Total	Credit
			L	T	P	CT	TA	Total	PS	TE	PE		
1	BCS601	Software Engineering	3	1	0	20	10	30		70		100	4
2	BIT601	Data Analytics	3	1	0	20	10	30		70		100	4
3	BCS603	Computer Networks	3	1	0	20	10	30		70		100	4
4	BCS061-064	Departmental Elective-III	3	0	0	20	10	30		70		100	3
5		Open Elective-I	3	0	0	20	10	30		70		100	3
6	BCS651	Software Engineering Lab	0	0	2				50		50	100	1
7	BIT651	Data Analytics Lab	0	0	2				50		50	100	1
8	BCS653	Computer Networks Lab	0	0	2				50		50	100	1
9	BNC601/ BNC602	Constitution of India/ Essence of Indian Traditional Knowledge	2	0	0	20	10	30		70			
		Total	17	3	6							800	21
		Minor Degree/Honors Degree MT-1/HT-1											

Departmental Elective-I

1. BCS051 Statistical Computing
2. BIT052 Compiler Design
3. BCS053 Computer Graphics
4. BCS054 Object Oriented System Design with C++

Departmental Elective-II

5. BCS055 Machine Learning Techniques
6. BCS056 Application of Soft Computing
7. BCS057 Image Processing
8. BCS058 Data Warehousing & Data Mining

Departmental Elective-III

1. BCS061 Big Data
2. BCS062 Augmented & Virtual Reality
3. BCS063 Blockchain Architecture Design
4. BCS064 Data Compression