

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



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

- **Computer Science**
- **Computer Engineering**
- **Computer Science and Engineering**

Based On

NEP2020

(Effective from the Session: 2024-25)

**B.TECH (COMPUTER SCIENCE & ENGINEERING/ COMPUTER SCIENCE)
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	Deptt- Elective-I	Departmental Elective-I	3	0	0	20	10	30		70		100	3
5	Deptt.- Elective-II	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 SCIENCE & ENGINEERING/ COMPUTER SCIENCE)
CURRICULUM STRUCTURE**

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	BCS602	Compiler Design	3	1	0	20	10	30		70		100	4
3	BCS603	Computer Networks	3	1	0	20	10	30		70		100	4
4	Deptt- Elective-III	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	BCS652	Compiler Design 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. BCS-051 Statistical Computing
2. BCS-052 Data Analytics
3. BCS-053 Computer Graphics
4. BCS-054 Object Oriented System Design with C++

Departmental Elective-II

5. BCS-055 Machine Learning Techniques
6. BCS-056 Application of Soft Computing
7. BCS-057 Image Processing
8. BCS-058 Data Warehousing & Data Mining

Departmental Elective-III

1. BCS-061 Big Data
2. BCS-062 Augmented & Virtual Reality
3. BCS-063 Blockchain Architecture Design
4. BCS-064 Data Compression