

ELECTRONICS AND COMPUTER ENGINEERING

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



EVALUATION SCHEME & SYLLABUS

FOR

B. TECH. THIRD YEAR

ELECTRONICS AND COMPUTER ENGINEERING

Based On

NEP2020

(Effective from the Session: 2024-25)

B.Tech. V Semester
Electronics and Computer Engineering

SEMESTER- V													
S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1	BCS501	Database Management System	3	1	0	20	10	30		70		100	4
2	BECZ501	Control System	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	BECZ051/ BCS052/ BCS053/ BECZ052	Department Elective-I	3	0	0	20	10	30		70		100	3
5	BECZ053/ BCIT054/ BCS057/ BECZ054	Department 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	BECZ551	Control System 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/Internship **	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
<p>**The Mini Project or Internship (4 weeks) conducted during summer break after IV Semester and will be assessed during Vth Semester.</p> <p>**It is desirable that the students should do their Summer Internship and Minor Project in their Specialization area in line with the B.Tech program.</p>													
Minor Degree/Honors Degree MT-1/HT-1													

B.Tech. VI Semester
ELECTRONICS AND COMPUTER ENGINEERING

SEMESTER- VI													
S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1	BCS601	Software Engineering	3	1	0	20	10	30		70		100	4
2	BECZ601	Digital Signal Processing	3	1	0	20	10	30		70		100	4
3	BCS603	Computer Networks	3	1	0	20	10	30		70		100	4
4	BECZ061/ BCDS062/ BCS063 / BECZ062	Department 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	BECZ651	Digital Signal Processing 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													
*The Mini Project or internship (4 weeks) will be done during summer break after 6th Semester and will be assessed during 7th semester.													
*It is desirable that the students should do their Summer Internship and Minor Project in their specialization area in line with the B.Tech. program.													

Departmental Elective-I

1. BECZ051 Optical Communication System
2. BCS052 Data Analytics
3. BCS053 Computer Graphics
4. BECZ052 Advance Digital Design using Verilog

Departmental Elective-II

1. BECZ053 VLSI Technology
2. BCIT054 Artificial Intelligence
3. BCS057 Image Processing
4. BECZ054 Integrated Circuit Design

Department Elective-III

1. BECZ061 Microcontroller for Embedded System Design
2. BCDS062 Machine Learning Techniques
3. BCS063 Blockchain Architecture & Design
4. BECZ062 Industrial Electronics