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

EVALUATION SCHEME & SYLLABUS

FOR

B. TECH. THIRD YEAR

- ELECTRONICS ENGINEERING
- ELECTRONICS AND COMMUNICATION ENGINEERING
- ELECTRONICS AND TELECOMMUNICATION ENGINEERING

AS PER

AICTE MODEL CURRICULUM

[Effective from the Session: 2024-25]

B.Tech. V Semester
Electronics and Communication Engineering

S. No.	Subject Code	Subject	Type	Category	Periods			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total SW+ESE	Credit
					L	T	P	CT	TA	CT+TA	TE/PE		
1	BEC501	Integrated Circuits	T	PC	3	1	0	20	10	30	70	100	4
2	BEC502	Microprocessor & Microcontroller	T	PC	3	1	0	20	10	30	70	100	4
3	BEC503	Digital Signal Processing	T	PC	3	1	0	20	10	30	70	100	4
4	BEC-051–054	Department Elective-I	T	PC	3	0	0	20	10	30	70	100	3
5	BEC-055–058	Department Elective-II	T	PC	3	0	0	20	10	30	70	100	3
6	BEC551	Integrated Circuits Lab	P	PC	0	0	2		50	50	50	100	1
7	BEC552	Microprocessor & Microcontroller Lab	P	PC	0	0	2		50	50	50	100	1
8	BEC553	Digital Signal Processing Lab	P	PC	0	0	2		50	50	50	100	1
9	BEC-554	Mini Project/Internship **	P	PC	0	0	2		50	50		50	1
10	BNC501 / BNC502	Constitution of India/ Essence of Indian Traditional Knowledge	T	VA	2	0	0	20	10	30	70	100	NC
11		Honors Degree / Minor Degree Courses											
		Total										**850**	**22**

The Mini Project or Internship (4weeks) conducted during summer break after IV Semester and will be assessed during Vth Semester.

Course Code	Course Title
	Department Elective-I
BEC-051	IoT – Architecture, Communication, Technology & its applications
BEC-052	Bio-Medical Sensors & Instrumentation
BEC-053	Intelligent Systems and Robotics
BEC-054	VLSI Technology
	Department Elective-II
BEC-055	Electronics Switching
BEC-056	Bio-Medical Signal Processing
BEC-057	Optical Communication
BEC-058	CMOS Analog VLSI Design

B.Tech. VI Semester
Electronics and Communication Engineering

S. No.	Subject Code	Subject	Type	Category	Periods			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total SW+ESE	Credit
					L	T	P	CT	TA	CT+TA	TE/PE		
1	BEC601	Digital Communication	T	PC	3	1	0	20	10	30	70	100	4
2	BEC602	Control System	T	PC	3	1	0	20	10	30	70	100	4
3	BEC603	Antenna and Wave Propagation	T	PC	3	1	0	20	10	30	70	100	4
4	BEC-061-064	Department Elective–III	T	PC	3	0	0	20	10	30	70	100	3
5		Open Elective-I	T	PC	3	0	0	20	10	30	70	100	3
6	BEC651	Digital Communication Lab	P	PC	0	0	2		50	50	50	100	1
7	BEC652	Control System Lab	P	PC	0	0	2		50	50	50	100	1
8	BEC653	Antenna and Wave Propagation Lab	P	PC	0	0	2		50	50	50	100	1
9	BNC601/ BNC602	Constitution of India/ Essence of Indian Traditional Knowledge	T	VA	2	0	0	20	10	30	70	100	NC
10		Honors Degree / Minor Degree Courses											
		Total										800	21

Course Code	Course Title

Department Elective-III

BEC-061	Satellite Communication
BEC-062	Data Communication Networks
BEC-063	CMOS Digital Design Techniques
BEC-064	Microwave Engineering