

**Curriculum Structure for B. Tech. in Electronics and Instrumentation Engineering
 Part – II through Part - IV
 TO BE EFFECTIVE FROM AY 2021-22 FROM PART II**

PART –II, 1ST SEMESTER (EIE)

A. THEORETICAL SUBJECTS							
Sl. No.	Subject Code	Subject Name	Contacts (Periods/Week)				Credits
			L	T	P	Total	
1.	EI301	Electronics Engineering	3			3	3
2.	EI302	Digital System Design	3			3	3
3.	MA301	Mathematics III	3			3	3
4.	EI303	Network Theory	3			3	3
5.	PH301	Physics II	3			3	3
6.	HU301	Constitution of India	3			3	0
Total of Theoretical Subjects						18	15
B. SESSIONAL SUBJECTS							
7.	EI391	Electronics Engineering Lab			2	2	1
8.	EI392	Digital System Design Lab			2	2	1
9.	PH391	Physics II Lab			2	2	1
Total of Sessional Subjects						6	3
Total of Semester						24	18

PART –II, 2ND SEMESTER (EIE)

A. THEORETICAL SUBJECTS							
Sl. No.	Subject Code	Subject Name	Contacts (Periods/Week)				Credits
			L	T	P	Total	
1.	EI401	Analog Communication	3	1		4	4
2.	EI402	Analog Integrated Circuits	3			3	3
3.	EI403	Microprocessors and Microcontrollers	3			3	3
4.	EI404	Electrical and Electronic Measurement	3			3	3
Total of Theoretical Subjects						13	13
B. SESSIONAL SUBJECTS							
1.	EI491	Analog Communication Lab			2	2	1
2.	EI492	Analog Integrated Circuits Lab			2	2	1
3.	EI493	Microprocessors and Microcontrollers Lab			2	2	1
4.	EI494	Electrical and Electronic Measurement Lab			2	2	1
Total of Sessional Subjects						8	4
Total of Semester						21	17

PART –III, 1ST SEMESTER (EIE)

A. THEORETICAL SUBJECTS							
Sl. No.	Subject Code	Subject Name	Contacts (Periods/Week)				Credits
			L	T	P	Total	
1.	EI501	Electromagnetic Waves	3			3	3
2.	EI502	Signals and System	3			3	3
3.	EI503	Computer Organization & Architecture	3			3	3
4.	EI504	Digital Communication	3			3	3
5.	EI505	Instrumentation I (Elective I)	3			3	3
Total of Theoretical Subjects						15	15
B. SESSIONAL SUBJECTS							
6.	EI591	Electromagnetic Waves Lab			2	2	2
7.	EI592	Digital Communication Lab			2	2	2
Total of Sessional Subjects						4	4
Total of Semester						19	19

PART –III, 2ND SEMESTER (EIE)

A. THEORETICAL SUBJECTS							
Sl. No.	Subject Code	Subject Name	Contacts (Periods/Week)				Credits
			L	T	P	Total	
1.	EI601	Power Electronics	3	0	0	3	3
2.	EI602	Computer Networks	3	0	0	3	3
3.	EI603	Telemetry and Remote Control	3	0	0	3	3
4.	EI604	Instrumentation II	3	0	0	3	3
5.	EI605	Control Engineering	3	0	0	3	3
Total of Theoretical Subjects						15	15
B. SESSIONAL SUBJECTS							
5.	EI691	Control Engineering Lab	0	0	4	4	2
6.	EI692	Power Electronics Lab	0	0	4	4	2
7.	EI681	Mini Project	0	0	4	4	3
Total of Sessional Subjects						12	7
Total of Semester						27	22

PART –IV, 1ST SEMESTER (EIE)

A. THEORETICAL SUBJECTS							
Sl. No.	Subject Code	Subject Name	Contacts (Periods/Week)				Credits
			L	T	P	Total	
1.	EI701	Optical System	3			3	3
2.	EI702	Biology	3			3	3
3.	EI703	Digital Signal Processing	3			3	3
4.	EI 704A/704B	Open Elective I (Cyber Law & Ethics / Entrepreneurship)	3			3	3
Total of Theoretical Subjects						12	12
B. SESSIONAL SUBJECTS							
5.	EI781	Project Stage -I	0	0	12	12	6
6.	EI791	Optical Lab.	0	0	4	4	2
Total of Sessional Subjects						7	8
Total of Semester						21	20

PART –IV, 2ND SEMESTER (EIE)

A. THEORETICAL SUBJECTS							
Sl. No.	Subject Code	Subject Name	Contacts (Periods/Week)				Credits
			L	T	P	Total	
1.	EI801	Microwave Theory	3	0	0	3	3
2.	EI802	Process Control	3	0	0	3	3
3.	EI803	Biomedical Instrumentation	3	0	0	3	3
Total of Theoretical Subjects						9	9
B. SESSIONAL SUBJECTS							
8.	EI891	Microwave Lab	0	0	4	4	2
9.	EI881	Project Stage -II	0	0	12	12	6
Total of Sessional Subjects						22	8
Total of Semester						31	17