

COURSE STRUCTURE AND SYLLABUS FOR B.TECH DEGREE IN ELECTRONICS ENGINEERING (2022 Batch)



विद्यारत्नम् महोदयम्

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY JAIS, AMETHI

(RGPT JAIS, AMETHI)

Credit Distribution for B. Tech Electronics Engineering 2022 Batch

Category	Range	Proposed
Humanities and Social Science (HU)	22	22
Science (IS)	70-90	88
Institute Engineering (IE)	40-70	55
Engineering Drawing, Workshop (EP)	18-24	15
Language & Management (LM)	18-24	20
Departmental Core (DC)	145-190	167
Departmental Elective (DE)	30-75	36
Open Elective (OE)	15-20	18
Project/Industrial Visit (DP)	20-50	20
Total Credits	440-490	441

Fourth Year Odd Semester

Course Code	Course/Subject	L	T	P	Cr
ECE411	Data Communication Networks (DC)	3	0	0	9
	Department Elective – 3 (DE)	3	0	0	9
	Department Elective – 4 (DE)	3	0	0	9
	Open Elective – 1 (OE)	3	0	0	9
MT5100	Principles of Economics (M)	2	0	0	6
HU313	Sociology of Industry & Work Culture (HU)	2	0	0	6
	Total Credits				48

Departmental Elective (DE - 3)		
ECE431	Advanced Field Effect Devices	Microelectronics
ECE433	Electronics System Design	
ECE434	Semiconductor Optoelectronic Devices	
ECE435	Flexible Electronics and Green Energy	
ECE412	VLSI Digital Signal Processing	
ECE403	Antennas and Propagation	
ECE413	Wireless Communication	Communication
ECE412	VLSI Digital Signal Processing	
ECE318	Modern Coding Theory	
ECE402	Industrial Automation	
ECE403	Antennas and Propagation	
ECE413	Wireless Communication	Digital Technique & Instrumentation (DTI)
ECE414	Advanced Digital Signal Processing	
ECE433	Electronics System Design	
ECE403	Antennas and Propagation	
ECE434	Flexible Electronics and Green Energy	

Departmental Elective (DE - 4)		
ECE436	Introduction to Nano Electronics	Microelectronics
ECE437	Advance High Speed Devices & Circuits	
ECE438	Micro-Electromechanical Systems (MEMS)	
ECE401	Microwave Engineering	
ECE415	Optical Communication	Communication
ECE416	Optical Networks	
ECE417	Information Theory	
ECE401	Microwave Engineering	
ECE418	Satellite Communication	
ECE415	Optical Communication	Digital Techniques & Instrumentation (DTI)
ECE422	Switching Theory and Fault Tolerance	
ECE438	Micro-Electromechanical Systems (MEMS)	
ECE401	Microwave Engineering	
ECE415	Optical Communication	

Fourth Year Even Semester

Course Code	Course/Subject	L	T	P	Cr
ECE420	Summer Internship/Industrial Visit/B.Tech. Project (DP)	0	0	5	5
	Open Elective – 2 (OE)	3	0	0	9
MT5405	Foundations of Management (M)	2	0	0	6
HU331	Organizational Psychology (HU)	2	0	0	6
	Total Credits				26