

Annexure-2
Curriculum of 4 -Year BETCE Course

First Year First Semester

CODE NO	SUBJECT	Pds/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/Hum/T/A/111	HUMANITIES-A	4	0	0	4	100	-
ET/T/112	PHYSICAL ELECTRONICS	3	0	0	3	100	-
ET/Math/T/113	MATHEMATICS – IG	3	0	0	3	100	-
ET/Math/T/114	MATHEMATICS – IIG	3	0	0	3	100	-
ET/Ph/T/1B/115	PHYSICS-IB	3	0	0	3	100	-
ET/T/116	COMPUTER PROGRAMMING AND NUMERICAL ANALYSIS	3	0	0	3	100	-
ET/Ph/S/1/111	PHYSICS LABORATORY-I	0	0	3	-	-	100
ET/BED/ME/S/1/112	BASIC ENGINEERING DRAWING	0	0	3	-	-	100
ET/S/113	PROGRAMMING LABORATORY	0	0	3	-	-	100
ET/WS/ME/S/6A/114	WORKSHOP PRACTICE-VI	0	0	3	-	-	100
	Sub – Total	19	0	12	19	600	400
	Total	31				1000	

First Year Second Semester

CODE NO	SUBJECT	Pd/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/T/121	CIRCUIT THEORY	4	0	0	4	100	-
ET/T/122	ELECTRON DEVICE	4	0	0	4	100	-
ET/Math/T/123	MATHEMATICS – IIIG	3	0	0	3	100	-
ET/Math/T/124	MATHEMATICS – IVG	3	0	0	3	100	-
ET/AM/ME/T/1B/125	ENGINEERING MECHANICS	3	0	0	3	100	-
ET/Ph/T/2B/126	PHYSICS-IIB	3	0	0	3	100	-
ET/S/121	NUMERICAL ANALYSIS LAB	0	0	3	-	-	100
ET/S/122	CIRCUIT THEORY LAB	0	0	3	-	-	100
ET/S/123	ELECTRON DEVICE LAB	0	0	3	-	-	100
ET/WS/ME/S/12B/124	WORKSHOP PRACTICE-XII	0	0	3	-	-	100
	Sub – Total	20	0	12	20	600	400
	Total	32				1000	

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		L	T	S		Exam	Sessional
ET/T/211	ELECTROMAGNETIC THEORY	3	0	0	3	100	-
ET/T/212	NETWORK SYNTHESIS	3	0	0	3	100	-
ET/T/213	SIGNAL THEORY & NOISE	4	0	0	4	100	-
ET/T/214	DIGITAL LOGIC CIRCUITS	3	0	0	3	100	-
ET/T/215	ANALOG CIRCUITS-I	4	0	0	4	100	-
ET/EE/T/216	ELECTRICAL MACHINES	3	0	0	3	100	-
ET/S/211	ANALOG CIRCUITS – I LAB	0	0	3	-	-	100
ET/S/212	DIGITAL CIRCUITS – I LAB	0	0	3	-	-	100
ET/S/213	CIRCUIT DESIGN LAB	0	0	3	-	-	100
ET/EE/S/214	ELECTRICAL MACHINES LAB	0	0	3	-	-	100
	Sub – Total	20	0	12	20	600	400
	Total	32				1000	

Second Year Second Semester

CODE NO	SUBJECT	Pd/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/T/221	ANALOG CIRCUITS-II	3	0	0	3	100	
ET/T/222	DIGITAL CIRCUITS & SYSTEMS	3	0	0	3	100	
ET/T/223	ANALOG COMMUNICATION SYSTEMS	4	0	0	4	100	
ET/T/224	TRANSMISSION LINES AND WAVEGUIDES	4	0	0	4	100	
ET/T/225	ELECTRICAL MEASUREMENTS	3	0	0	3	100	
ET/T/226	DATA STRUCTURES AND ALGORITHMS	3	0	0	3	100	
ET/S/221	ANALOG CIRCUITS – II LAB	0	0	3	-	-	100
ET/S/222	DIGITAL CIRCUITS - II LAB	0	0	3	-	-	100
ET/S/223	ANALOG COMMUNICATION LAB	0	0	3	-	-	100
ET/EE/S/224	ELECTRICAL MEASUREMENTS LAB	0	0	3	-	-	100
	Sub – Total	20	0	12	20	600	400

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Total	32	1000
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Third Year First Semester

CODE NO	SUBJECT	Pd/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/T/311	MICRO PROCESSORS AND MICROCONTROLLERS	3	0	0	3	100	-
ET/T/312	CONTROL ENGINEERING	3	0	0	3	100	-
ET/T/313	DIGITAL COMMUNICATION SYSTEMS	4	0	0	4	100	-
ET/T/314	ANTENNAS & PROPAGATION	4	0	0	4	100	-
ET/T/315	IC TECHNOLOGY	3	0	0	3	100	-
ET/T/316	COMPUTER ORGANIZATION AND ARCHITECTURE	3	0	0	3	100	-
ET/S/311	IC TECHNOLOGY LAB	0	0	3	-	-	100
ET/S/312	DIGITAL COMMUNICATION LAB	0	0	3	-	-	100
ET/S/313	MICROPROCESSOR LAB	0	0	3	-	-	100
ET/S/314	CONTROL ENGINEERING LAB	0	0	3	-	-	100
	Sub – Total	20	0	12	20	600	400
	Total	32				1000	

Third Year Second Semester

CODE NO	SUBJECT	Pd/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/T/321	IC DESIGN	3	0	0	3	100	-
ET/T/322	COMMUNICATION SWITCHING SYSTEMS	3	0	0	3	100	-
ET/T/323	DIGITAL SIGNAL PROCESSING	3	0	0	3	100	-
ET/T/324	DIGITAL CONTROL SYSTEMS	4	0	0	4	100	-
ET/T/325	SYSTEM SOFTWARE	3	0	0	3	100	-
ET/T/326	EMBEDDED SYSTEMS	3	0	0	3	100	-
ET/S/321	IC DESIGN LAB	0	0	3	-	-	100
ET/S/322	COMMUNICATION SWITCHING LAB	0	0	3	-	-	100
ET/S/323	DIGITAL SIGNAL PROCESSING LAB	0	0	3	-	-	100
ET/S/324	DIGITAL CONTROL LAB	0	0	3	-	-	100

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	Sub – Total	19	0	12	19	600	400
	Total	31				1000	

Fourth Year First Semester

CODE NO	SUBJECT	Pd/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/T/411	COMPUTER COMMUNICATION NETWORKS	3	0	0	3	100	-
ET/T/412	OPERATING SYSTEMS	3	0	0	3	100	-
ET/T/413	VLSI DESIGN	3	0	0	3	100	-
ET/T/414	MICROWAVE ENGINEERING	4	0	0	4	100	-
ET/T/415	ELECTIVE-I	3	0	0	3	100	-
ET/S/411	COMPUTER ARCHITECTURE AND SYSTEM SOFTWARE LABORATORY	0	0	3	-	-	100
ET/S/412	MICROWAVE LABORATORY	0	0	3	-	-	100
ET/S/413	COMMUNICATION NETWORKS LAB	0	0	3	-	-	100
ET/S/414	PROJECT	0	0	6	-	-	
	Sub – Total	16	0	15	16	500	300
	Total	31				800	

Fourth Year Second Semester

CODE NO	SUBJECT	Pd/week			Credit	Marks	
		L	T	S		Exam	Sessional
ET/MNG/ME/T/1/421	INDUSTRIAL MANAGEMENT	4	0	0	4	100	-
ET/T/422	WIRELESS COMMUNICATION SYSTEMS	3	0	0	3	100	-
ET/T/423	OPTICAL FIBER COMMUNICATION	3	0	0	3	100	-
ET/T/424	INSTRUMENTATION & MEASUREMENTS	3	0	0	3	100	-
ET/T/425	ELECTIVE-II	3	0	0	3	100	-
ET/T/426	GENERAL VIVA-VOCE	-	-	-	-	100	-
ET/S/421	SEMINAR	0	0	3	-	-	100
ET/S/422	PROJECT	0	0	6	-	-	200

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	Sub – Total	16		9	16	600	300
	Total	25				900	

ELECTIVES

1. AUDIO/VIDEO ELECTRONICS & BROADCASTING
2. ADVANCED MOBILE COMMUNICATIONS
3. COMMUNICATION NETWORK MANAGEMENT
4. OPTICAL NETWORKS
5. SOFTWARE ENGINEERING
6. PATTERN ANALYSIS & MACHINE INTELLIGENCE
7. DISTRIBUTED SYSTEMS
8. COMPILER DESIGN
9. DATABASE MANAGEMENT SYSTEM
10. NEURO FUZZY CONTROL
11. ROBOTICS AND COMPUTER VISION
12. INDUSTRIAL ELECTRONICS
13. BIOMEDICAL ELECTRONICS
14. OPTIMAL & ADAPTIVE CONTROL
15. ADVANCED ELECTRON DEVICES
16. ELECTRONIC DESIGN AUTOMATION
17. MONOLITHIC MICROWAVE INTEGRATED CIRCUITS
18. RADAR AND NAVIGATION
19. PRINCIPLES OF ELECTROMAGNETIC COMPATIBILITY
20. DIGITAL IMAGE PROCESSING.
21. BRAIN –COMPUTER INTERFACING

NOTE: Subjects for Elective I and Elective II will be offered by the BOS from the above

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Common Pool based on the availability of Teachers and necessary infrastructures.