Curriculum of 4 –Year BETCE Course

First Year First Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	HUMANITIES-A	4	0	0	100	
	ELECTRON DEVICE- I	3	0	0	100	
	MATHEMATICS – IG	3	0	0	100	
	MATHEMATICS – IIG	3	0	0	100	
	PHYSICS-IB	3	0	0	100	
	COMPUTER PROGRAMMING AND NUMERICAL ANALYSIS	4	0	0	100	
	PHYSICS LABORATORY-1	0	0	3		100
	BASIC ENGINEERING DRAWING	0	0	3		100
	WORKSHOP PRACTICE-VI	0	0	3		100
	PROGRAMMING LABORATORY	0	0	3		100
	Sub – Total	20		12	600	400
	Total	32			1000	

First Year Second Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	CIRCUIT THEORY	3	0	0	100	
	ELECTRON DEVICE- II	4	0	0	100	
	MATHEMATICS – IIIG	3	0	0	100	
	MATHEMATICS – IVG	3	0	0	100	
	PHYSICS-IIB	3	0	0	100	
	ENGINEERING MECHANICS	3	0	0	100	
	CIRCUIT THEORY LAB -I	0	0	3		100
	NUMERICAL ANALYSIS LAB	0	0	3		100
	WORKSHOP PRACTICE-XII	0	0	3		100
	ELECTRON DEVICE LAB	0	0	3		100
	Sub – Total	19		12	600	400
	Total	31			1000	

Second Year First Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	ELECTROMAGNETIC THEORY	3	0	0	100	
	NETWORK SYNTHESIS	3	0	0	100	
	SIGNAL THEORY & NOISE	4	0	0	100	
	DIGITAL LOGIC CIRCUITS	4	0	0	100	
	ELECTRICAL MACHINES	3	0	0	100	
	ANALOG CIRCUITS-I	4	0	0	100	
	ANALOG CIRCUIT LAB-I	0	0	3		100
	DIGITAL CIRCUIT LAB-I	0	0	3		100
	CIRCUIT DESIGN LAB	0	0	3		100
	ELECTRICAL MACHINES LAB	0	0	3		100
	Sub – Total	21		12	600	400
	Total	33			1000	

Second Year Second Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	ANALOG CIRCUITS-II	3	0	0	100	
	DIGITAL CIRCUITS & SYSTEMS	4	0	0	100	
	ANALOG COMM. SYSTEMS	4	0	0	100	
	TRANSMISSION LINES AND WAVEGUIDES	4	0	0	100	
	ELECTRICAL MEASUREMENTS	3	0	0	100	
New 6th Paper	DATA STRUCTURES AND ALGORITHMS					
	ANALOG CIRCUIT LAB-II	0	0	3		100
	DIGITAL CIRCUITS LAB	0	0	3		100
	ANALOG COMM. LAB	0	0	3		100
	ELECTRICAL MEASUREMENTS LAB	0	0	3		100
	Sub – Total	18		12	500	400
	Total	30			900	

Third Year First Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	MICRO PROCESSORS AND MICROCONTROLLERS	3	0	0	100	
	CONTROL ENGINEERING	4	0	0	100	
	DIGITAL COMM. SYSTEMS	4	0	0	100	
	ANTENNAS & PROPAGATION	4	0	0	100	
	IC TECHNOLOGY	3	0	0	100	
	COMPUTER ORGANIZATION AND ARCHITECTURE	3	0	0	100	
	IC TECHNOLOGY LAB	0	0	3		100
	DIGITAL COMM. LAB	0	0	3		100
	MICRO PROCESSORS LAB	0	0	3		100
	CONTROL ENGINEERING LAB	0	0	3		100
	Sub – Total	21		12	600	400
	Total	33			1000	

Third Year Second Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	IC DESIGN	3	0	0	100	
	COMMUNICATION SWITCHING SYSTEMS	3	0	0	100	
	DIGITAL SIGNAL PROCESSING	3	0	0	100	
	DIGITAL CONTROL SYSTEMS	3	0	0	100	
	SYSTEMS SOFTWARE	3	0	0	100	
	INSTRUMENTATION AND MEASUREMENTS	4	0	0	100	
	IC DESIGN LAB	0	0	3		100
	COMMUNICATION SWITCHING LAB	0	0	3		100
	DIGITAL SIGNAL PROCESSING	0	0	3		100

	LAB					
	DIGITAL CONTROL LAB	0	0	3		100
	Sub – Total	19		12	600	400
	Total	31			900	

Fourth Year First Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	COMPUTER COMMUNICATION NETWORKS	3	0	0	100	
	OPERATING SYSTEMS	3	0	0	100	
	VLSI DESIGN	4	0	0	100	
	MICROWAVE ENGINEERING	4	0	0	100	
	ELECTIVE-I	3	0	0	100	
	COMPUTER ARCHITECTURE AND SYSTEM SOFTWARE LABORATORY	0	0	3		100
	MICROWAVE LABORATORY	0	0	3		100
	COMMUNICATION NETWORKS LAB	0	0	3		100
	PROJECT	0	0	3		
	Sub – Total	17		12	500	300
	Total	29			800	

Fourth Year Second Semester

Code no	Subject	Pd/week			Marks	
		L	T	S	Exam	Sessional
	INDUSTRIAL MANAGEMENT	4	0	0	100	
	SATELLITE, MOBILE & PERSONAL COMMUNICATION	4	0	0	100	
	OPTICAL FIBER COMMUNICATION	3	0	0	100	
	EMBEDDED SYSTEMS	3	0	0	100	
	ELECTIVE-II	3	0	0	100	
	MOBILE COMMUNICATION LAB	0	0	3		100
	PROJECT	0	0	3		100
	SEMINAR	0	0	3		100

	GENERAL VIVA-VOCE				100	
	Sub – Total	17		9	600	300
	Total	26			900	

ELECTIVES

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

21. DIGITAL IMAGE PROCESSING.

Note: Subjects for Elective I and Elective II will be offered by the BOS from the above common poll based on availability of infrastructure.