

**List of Seventh Semester B. E. Electives**

(AUTONOMOUS)

S.N.	Name of Branch	(Old Scheme) Elective-II	(New Scheme) Elective-II	(Old Scheme) Elective-III	(New Scheme) Elective-III		
1.	Civil Engineering	1 Matrix Method of Structural Analysis	1 Matrix Method of Structural Analysis	1 Advanced Transportation Engineering	1 Advanced Transportation Engineering		
		2 Advanced Structural Design	2 Advanced Concrete Design	2 Remote Sensing & GIS	2 Remote Sensing & GIS		
		3 Pavement Design	3 Pavement Design	3 Advanced Steel Design	3 Advanced Steel Design		
		4 Advanced Hydraulics	4 Advanced Hydraulics	4 Earth & Earth Retaining Structure	4 Earth & Earth Retaining Structure		
		5 Soil Dynamics	5 Soil Dynamics	5 Computational Fluid Dynamics	5 Computational Fluid Dynamics		
		6 Artificial Neural Networks & Fuzzy Logic	6 Artificial Neural Networks & Fuzzy Logic	6 Municipal & Industrial Water Treatment	6 Municipal & Industrial Water Treatment		
		7 Green Building	7 Green Building				
2.	Electrical Engineering	1 Optimization Techniques					
		2 Electrical Installation & Design					
		3 EHV-AC & HVDC Transmission					
		4 Advanced Power System Stability					
		5 Entrepreneurship Development					
3.	Electronics Engineering	1 Language Processors	1 Language Processors		1 Radar & Satellite Communication		
		2 Optical Communication	2 Optical Communication		2 Micro Electro Mechanical Systems (MEMS)		
		3 Programmable Devices & Testing	3 Programmable Devices & Testing		3 ASIC Design		
		4 Wireless Sensor Networks	4 Wireless Sensor Networks		4 RTOS		
		5 PLC And SCADA	5 PLC and SCADA		5 Computer Networks		
			6 Mechatronics				
4.	Electronics & Telecommunication Engineering	1 Digital Image Processing	1 Digital Image Processing		1 Mobile Communication		
		2 Application Specific Integrated Circuits (ASIC Design)	2 Application Specific Integrated Circuit Design		2 Microelectromechanical Systems		
		3 Wireless Sensor Networks	3 Wireless Sensor Networks		3 RTOS		
		4 Mechatronics	4 Mechatronics		4 PLC & SCADA		
			5 Radar & Satellite Communication		5 Robotics		
			6 Cloud Computing		6 Internet of Things		
5.	Computer Science & Engineering	<b>(Old Scheme) Elective-II</b>		<b>(Old Scheme) Elective-III</b>			
		1 Natural Language Processing	1 AI and Expert Systems	1 Decision Support System	1 Soft Computing		
		2 Software Architecture	2 Digital Signal Processing	2 Advanced Computer Architecture	2 Software Architecture		
		3 Data Mining & Warehousing	3 Pattern Recognition	3 Digital Signal Processing	3 Machine Learning		
		4 Wireless Communication	4 Wireless Communication	4 Pattern Recognition	4 Wireless Sensor Network		
		5 Scripting Languages	5 Advanced Computer Architecture		5 Scripting Languages		
		<b>(New Scheme) Elective-IV</b>		<b>(New Scheme) Elective-V</b>			
		1 Mobile Computing	1 E-Commerce				
		2 Digital Image Processing	2 Cloud Computing				
3 Real Time Operating System	3 Bioinformatics						
4 Advanced Web Technologies	4 Cyber Laws						
5 Software Testing	5 Enterprise Resource Planning						
6.	Information Technology	<b>(Old Scheme) Elective-II</b>		<b>(New Scheme) Elective-III</b>			
		1 E-Commerce	1 Natural Language Processing	1 Advanced Operating System Design			
		2 AI and Expert System	2 Wireless Communication	2 Pattern Recognition			
		3 Data Mining & Warehousing	3 Advanced Web Technologies	3 Bio-Informatics			
		4 Digital Image Processing	4 Distributed Data Bases and Object Oriented Data Bases	4 Software Testing			
		5 Multimedia Systems	5 Industrial Robotics	5 Enterprise Resource Planning			