(New Scheme 2014-15)

M. TECH. / M. E. SECOND SEMESTER EXAMINATION
(List of Elective Subjects)

(Autonomous)

Environmental Engineering	Elective-III	1.	Computational Methods And Optimization Technique	2.	Environmental System Optimization	3.	Environmental System Modeling										
	Elective-IV	1.	Environmental Management	2.	Wastewater Recycling	3.	Climate Change And Control Mechanism										
Transportation Engineering	Elective-III	1.	Soft Computing	2.	Pavement Design And Analysis	3.	Computer Aided Transportation Engineering	4.	Highway Traffic Analysis And Design	5.	Transportation Economics And Finance	6.	Public Transportation Planning And Design	7.	Project Management		
Structural Engineering	Elective-III	1.	Finite Element Method	2.	Prestressed Concrete Structures	3.	Advanced Design Of Steel Structures										
	Elective-IV	1.	Disaster Management	2.	Design Of Bridges And Retaining Walls	3.	Wind Effects On Structures										
CAD / CAM	Elective-III	1.	Modeling and Simulations	2.	Computational Methods for Design	3.	Computer Aided Tool Design										
	Elective-IV	1.	Plastics and Composites	2.	Manufacturing System Integration and Management	3.	Fracture Mechanics and Fatigue										
Heat Power Engineering	Elective-III	1.	Convective Heat and Mass Transfer	2.	Design of Heat Transfer Equipment	3.	Computational Fluid Dynamics										
	Elective-IV	1.	Energy Conservation and Management	2.	Advanced Cryogenic Systems	3	Cogeneration and Waste Heat Recovery System										
Integrated Power System	Elective-III	1.	HVDC Transmission system	2	Digital Signal Processing	3.	Sub-Station Engineering										
	Elective-IV	1.	FACTS	2.	Electrical Drives-II	3.	Load Forecasting and Load management										
Power Electronics & Drives	Elective-III	1.	Mechatronics	2.	Electrical Transportation Systems												
	Elective-IV	1.	Special Machines	2.	Energy Storage Systems												
Communication Engineering	Elective-III	1.	Estimation and Detection Theory	2.	Microwave Propagation And Systems	3.	Adaptive Signal Procressing	4.	Wireless Communication and Broadband Technology	5.	Processors and Embedded Controller	6.	VLSI Signal Processing	7.	Soft Computing	8.	Multi Rate Signal Processing and Filter Banks
VLSI	Elective-III	1.	DSP Processors & Architectures	2.	Low Power VLSI Design	3.	Nano Materials	4.	Networks On Chip	5.	Mixed Signal Design	6.	VLSI Signal Processing	7.	High Speed Devices and Circuits	8.	CMOS RF Circuit Design
Electronics Engineering	Elective-III	1.	Mobile Communication	2.	Wavelet Theory	3.	Optical Devices and Fiber Optics	4.	Biomedical Instrumentation Systems	5.	DSP Processors & Architectures	6.	Speech Signal Processing	7.	Analog VLSI Design	8.	Networks On Chip
Computer Science Engineering	Elective-III	1.	Human Computer Interaction	2.	Natural Language Processing	3.	Cloud Computing and Virtualization	4.	Reconfigurable Computing								
	Elective-IV	1.	Advanced Digital Image Processing	2.	Ubiquitous Computing	3.	Computer Simulation and Modelling	4.	Voice Over IP								
	Elective-V	1.	Bioinformatics	2.	Research Methodology	3.	Object Oriented Software Design	4.	Mobile Operating System								
Embedded System & Comp.	Elective-III	1.	Advances In Algorithm	2.	Advanced Microcontroller	3.	Cmos Anolog IC Design	4.	System on Chip Design								
	Elective-IV	1.	Advanced Digital Image Processing	2.	CMOS Mixed Signal Circuit Design	3.	Hardware Software Co-Design	4.	Research Methodology								
Wireless Comm. & Comp.	Elective-IV	1.	Smart Antenna Systems	2.	High Performance Communication Networks	3.	Spread Spectrum Communication										
	Elective-V	1.	Cloud Computing and Virtualization	2.	Mobile Computing	3.	Voice Over IP										
	Elective-VI	1.	Research Methodology	2.	Simmulation of Wireless Communication System	3.	Satellite Communication										
Mobile Technology	Elective-IV	1.	Cloud Computing and Virtualization	2.	Parallel Programming	3.	High Performance Networks										
	Elective-V	1.	Bioinformatics	2.	Power Aware Computing	3.	3G Networks										
	Elective-VI	1.	Human Computer Interaction	2.	Adhoc Wireless Networks	3.	Spread Spectrum Communication										