Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 1 M.E. Computer Science & Engineering (Semester I)											
710101N	Service Oriented Architecture	4	0	2	5	70	30	30	20	150	1
710107N	Quantum Theory & Algorithm Design.	4	0	2	5	70	30	30	20	150	1
710103N	Distributed Operating System	3	0	2	4	70	30	30	20	150	1
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	1
710204N	Computer Graphics (Int.Elective)	3	0	2	4	70	30	30	20	150	1
710205N	Internet Technology (Int.Elective)	3	0	2	4	70	30	30	20	150	1
710104N	Information Security (Elective)	3	2	0	4	70	30	30	20	150	1
710105N	Real Time Computing (Elective)	3	2	0	4	70	30	30	20	150	1
710106N	Information Theory & Coding (Elective)	3	2	0	4	70	30	30	20	150	1
Branch Code : 2 M.E. Computer Engineering (Semester I)											
710201N	Computer Algorithm	4	0	2	5	70	30	30	20	150	2
710202N	Advanced Computer Graphics	4	0	2	5	70	30	30	20	150	2
710203N	Information Theory and Coding	3	2	0	4	70	30	30	20	150	2
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	2
710204N	Computer Graphics (Int.Elective)	3	0	2	4	70	30	30	20	150	2
710205N	Internet Technology(Int.Elective)	3	0	2	4	70	30	30	20	150	2
710206N	Wireless Computer Networks (Elective)	3	0	2	4	70	30	30	20	150	2
710207N	Parallel Computing (Elective)	3	0	2	4	70	30	30	20	150	2
710208N	Advanced Data Sturcture (Elective)	3	0	2	4	70	30	30	20	150	2

Branch Code : 3 M.E. Instrumentation and Control (Applied Instrumentation) (Semester I)											
710301N	Control Engineering	4	0	0	4	70	0	30	20	120	3
710302N	Advance Microcontroller	4	0	2	5	70	30	30	20	150	3
710303N	PID Controller	3	0	0	3	70	0	30	20	120	3
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	3
710304N	CAD for Control Systems	0	0	2	1	0	80	0	20	100	3
710305N	Programmable Logic Controller (Int.Elective)	3	0	2	4	70	30	30	20	150	3
710306N	Mechatronics (Int.Elective)	3	0	2	4	70	30	30	20	150	3
710307N	Switch Mode Power Supply (Elective)	4	0	2	5	70	30	30	20	150	3
710308N	Artificial Intelligence (Elective)	4	0	2	5	70	30	30	20	150	3
710309N	Industrial Data Communication (Elective)	4	0	2	5	70	30	30	20	150	3
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 4 M.E. Electronics and Communication Engineering (Semester I)											
710401N	Statistical Signal Analysis	3	2	0	4	70	30	30	20	150	4
710402N	Information Theory and Coding	4	0	2	5	70	30	30	20	150	4
710403N	ASIC Design	4	0	2	5	70	30	30	20	150	4
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	4
710404N	Image Processing (Int.Elective)	3	0	2	4	70	30	30	20	150	4
710405N	Fiber Optic Communication (Elective)	3	0	2	4	70	30	30	20	150	4
710406N	Speech Processing (Elective)	3	0	2	4	70	30	30	20	150	4
710407N	Biomedical Signal Processing (Elective)	3	0	2	4	70	30	30	20	150	4
710409N	Embedded System Design (Elective)	3	0	2	4	70	30	30	20	150	4

710410N	Introduction to Artificial Intelligence (Elective)	3	0	2	4	70	30	30	20	150	4
710411N	RF and Microwave Engineering (Elective)	3	0	2	4	70	30	30	20	150	4
710412N	Digital VLSI Design (Elective)	3	0	2	4	70	30	30	20	150	4
710413N	RF Microelectronics (Elective)	3	0	2	4	70	30	30	20	150	4
710417N	Microelectronics chip fabrication (Elective)	3	2	0	4	70	30	30	20	150	4
710418N	Satellite communication (Elective)	3	2	0	4	70	30	30	20	150	4
710419N	Antenna Engineering and Design (Elective)	3	0	2	4	70	30	30	20	150	4
710421N	Computer Aided Design for VLSI (Elective)	3	0	2	4	70	30	30	20	150	4
710422N	Digital Signal Processing and Applications (Elective)	3	0	2	4	70	30	30	20	150	4
710423N	Neuro Computing and Applications (Elective)	3	2	0	4	70	30	30	20	150	4
710424N	Machine Learning (Elective)	3	2	0	4	70	30	30	20	150	4
710425N	Robotics and Intelligent Systems (Elective)	3	2	0	4	70	30	30	20	150	4
710426N	Linear System Theory (Elective)	3	2	0	4	70	30	30	20	150	4
710427N	Soft Computing Technique and its Application in Engineering (Elective)	3	0	2	4	70	30	30	20	150	4
710428N	Recent topics in Modern Communication Engineering (Elective)	3	2	0	4	70	30	30	20	150	4
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 5 M.E. Communication Systems Engineering (Semester I)											
710401N	Statistical Signal Analysis	3	2	0	4	70	30	30	20	150	5

710402N	Information Theory and Coding	4	0	2	5	70	30	30	20	150	5
710403N	ASIC Design	4	0	2	5	70	30	30	20	150	5
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	5
710404N	Image Processing (Int.Elective)	3	0	2	4	70	30	30	20	150	5
710405N	Fiber Optic Communication (Elective)	3	0	2	4	70	30	30	20	150	5
710406N	Speech Processing (Elective)	3	0	2	4	70	30	30	20	150	5
710407N	Biomedical Signal Processing (Elective)	3	0	2	4	70	30	30	20	150	5
710409N	Embedded System Design (Elective)	3	0	2	4	70	30	30	20	150	5
710410N	Introduction to Artificial Intelligence (Elective)	3	0	2	4	70	30	30	20	150	5
710411N	RF and Microwave Engineering (Elective)	3	0	2	4	70	30	30	20	150	5
710412N	Digital VLSI Design (Elective)	3	0	2	4	70	30	30	20	150	5
710413N	RF Microelectronics (Elective)	3	0	2	4	70	30	30	20	150	5
710417N	Microelectronics chip fabrication (Elective)	3	2	0	4	70	30	30	20	150	5
710418N	Satellite communication (Elective)	3	2	0	4	70	30	30	20	150	5
710419N	Antenna Engineering and Design (Elective)	3	0	2	4	70	30	30	20	150	5
710421N	Computer Aided Design for VLSI (Elective)	3	0	2	4	70	30	30	20	150	5
710422N	Digital Signal Processing and Applications (Elective)	3	0	2	4	70	30	30	20	150	5
710423N	Neuro Computing and Applications (Elective)	3	2	0	4	70	30	30	20	150	5
710424N	Machine Learning (Elective)	3	2	0	4	70	30	30	20	150	5
710425N	Robotics and Intelligent Systems (Elective)	3	2	0	4	70	30	30	20	150	5
710426N	Linear System Theory (Elective)	3	2	0	4	70	30	30	20	150	5

710427N	Soft Computing Technique and its Application in Engineering (Elective)	3	0	2	4	70	30	30	20	150	5
710428N	Recent topics in Modern Communication Engineering (Elective)	3	2	0	4	70	30	30	20	150	5
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 6 M.E. Communication Engineering (Semester I)											
710401N	Statistical Signal Analysis	3	2	0	4	70	30	30	20	150	6
710402N	Information Theory and Coding	4	0	2	5	70	30	30	20	150	6
710403N	ASIC Design	4	0	2	5	70	30	30	20	150	6
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	6
710404N	Image Processing (Int.Elective)	3	0	2	4	70	30	30	20	150	6
710405N	Fiber Optic Communication (Elective)	3	0	2	4	70	30	30	20	150	6
710406N	Speech Processing (Elective)	3	0	2	4	70	30	30	20	150	6
710407N	Biomedical Signal Processing (Elective)	3	0	2	4	70	30	30	20	150	6
710409N	Embedded System Design (Elective)	3	0	2	4	70	30	30	20	150	6
710410N	Introduction to Artificial Intelligence (Elective)	3	0	2	4	70	30	30	20	150	6
710411N	RF and Microwave Engineering (Elective)	3	0	2	4	70	30	30	20	150	6
710412N	Digital VLSI Design (Elective)	3	0	2	4	70	30	30	20	150	6
710413N	RF Microelectronics (Elective)	3	0	2	4	70	30	30	20	150	6
710417N	Microelectronics chip fabrication (Elective)	3	2	0	4	70	30	30	20	150	6
710418N	Satellite communication (Elective)	3	2	0	4	70	30	30	20	150	6

710419N	Antenna Engineering and Design (Elective)	3	0	2	4	70	30	30	20	150	6
710421N	Computer Aided Design for VLSI (Elective)	3	0	2	4	70	30	30	20	150	6
710422N	Digital Signal Processing and Applications (Elective)	3	0	2	4	70	30	30	20	150	6
710423N	Neuro Computing and Applications (Elective)	3	2	0	4	70	30	30	20	150	6
710424N	Machine Learning (Elective)	3	2	0	4	70	30	30	20	150	6
710425N	Robotics and Intelligent Systems (Elective)	3	2	0	4	70	30	30	20	150	6
710426N	Linear System Theory (Elective)	3	2	0	4	70	30	30	20	150	6
710427N	Soft Computing Technique and its Application in Engineering (Elective)	3	0	2	4	70	30	30	20	150	6
710428N	Recent topics in Modern Communication Engineering (Elective)	3	2	0	4	70	30	30	20	150	6
710601N	Wireless and Mobile Communication (Elective)	3	2	0	4	70	30	30	20	150	6
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 7 M.E. Electrical Engineering (Semester I)											
710701N	Power System Modelling & Simulation	3	0	0	3	70	0	30	20	120	7
710702N	Advanced Power Electronics	3	0	0	3	70	0	30	20	120	7
710703N	Modern Control System	3	0	0	3	70	0	30	20	120	7
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	7
710704N	Simulation Laboratory	0	0	4	2	0	80	0	20	100	7
710705N	Core Laboratory I	0	0	4	2	0	80	0	20	100	7

710706N	Energy Management (Int .Elective)	3	0	2	4	70	30	30	20	150	7
710707N	Modern Power System Protection (Power Group) (Elective)	4	0	2	5	70	30	30	20	150	7
710708N	Nonlinear control systems (Control Group) (Elective)	4	0	2	5	70	30	30	20	150	7
710709N	Electrical Drives (Power Electronics Group) (Elective)	4	0	2	5	70	30	30	20	150	7
710710N	Advanced Micro. Architechture (Micro Group) (Elective)	4	0	2	5	70	30	30	20	150	7
Branch Code : 8 M.E. Mechanical (CAD/CAM) (Semester I)											
710801N	Advanced Machine Design	4	0	0	4	70	0	30	20	120	8
710802N	Computer Aided Machine Design	4	0	0	4	70	0	30	20	120	8
710803N	Computer Aided Production Management	4	0	0	4	70	0	30	20	120	8
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	8
710804N	CAD & Solid Modeling Lab	0	0	4	2	0	80	0	20	100	8
710805N	CAPM & Programming Lab	0	0	2	1	0	80	0	20	100	8
710806N	Mechanical Engineering for Mechatronics (Int.Elective)	3	0	2	4	70	30	30	20	150	8
710807N	Advanced Materials and Processes (Elective)	3	0	0	3	70	0	30	20	120	8
710808N	Material Science and Materials (Elective)	3	0	0	3	70	0	30	20	120	8
Branch Code : 9 M.E. Mechanical (Machine Design) (Semester I)											
710901N	Theory of Elasticity	4	0	0	4	70	0	30	20	120	9
710902N	Dynamics of Machinery	4	0	2	5	70	30	30	20	150	9
710903N	Engineering Optimization	3	2	0	4	70	30	30	20	150	9
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	9

710904N	Optimization Techniques (Int.Elective)	3	2	0	4	70	30	30	20	150	9
710905N	Tribology (Elective)	4	0	2	5	70	30	30	20	150	9
710906N	Robust Design (Elective)	4	0	2	5	70	30	30	20	150	9
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 10 M.E. Mechanical (CRYOGENIC ENGG.) (Semester I)											
711001N	Cryogenic Fundamentals	4	0	2	5	70	30	30	20	150	10
711002N	Vacuum Engineering	3	0	2	4	70	30	30	20	150	10
711003N	Advanced Refrigeration	4	0	2	5	70	30	30	20	150	10
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	10
711004N	Elements of Cryogenic Engineering (Int.Elective)	3	0	2	4	70	30	30	20	150	10
711005N	Advanced Heat and Mass Transfer (Elective)	3	2	0	4	70	30	30	20	150	10
711006N	Cryogenic Heat Exchanger (Elective)	3	2	0	4	70	30	30	20	150	10
Branch Code : 11 M.E. Mechanical (I.C.Engine & Automobile) (Semester I)											
711101N	Advanced Thermodynamics and Heat Transfer	4	0	0	4	70	0	30	20	120	11
711102N	Fundamentals of I.C Engine and Automobile	4	0	2	5	70	30	30	20	150	11
711103N	Fluid Mechanics and Gas Dynamics	4	0	2	5	70	30	30	20	150	11
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	11
711104N	Modeling, Simulation & Computer Application (Int.Elective)	3	2	0	4	70	30	30	20	150	11

711105N	Computer applications (Elective)	3	2	0	4	70	30	30	20	150	11
711106N	Vehicle Dynamics (Elective)	3	2	0	4	70	30	30	20	150	11
711107N	Automobile Refrigeration & A/C (Elective)	3	2	0	4	70	30	30	20	150	11
711108N	Combustion Engineering (Elective)	3	2	0	4	70	30	30	20	150	11
Branch Code : 12 M.E. Civil (Water Resources Management) (Semester I)											
711201N	Advanced Fluid Mechanics	4	0	2	5	70	30	30	20	150	12
711202N	Hydrology & Watershed Management	4	0	2	5	70	30	30	20	150	12
711203N	Design of Hydraulic Structures	4	2	0	5	70	30	30	20	150	12
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	12
711204N	Water Resources Engineering (Int.Elective)	3	2	0	4	70	30	30	20	150	12
711205N	Hydro Power Engineering (Elective)	3	0	0	3	70	0	30	20	120	12
711206N	Remote Sensing and its applications (Elective)	3	0	0	3	70	0	30	20	120	12
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 13 M.E. Civil (Transportation Engineering) (Semester I)											
711301N	Urban Transportation Systems Planning	4	2	0	5	70	30	30	20	150	13
711302N	Traffic Engineering -1	4	0	2	5	70	30	30	20	150	13
711303N	Highway Materials and Construction	4	0	2	5	70	30	30	20	150	13
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	13

711304N	Basics of Transportation Engineering (Int.Elective)	3	2	0	4	70	30	30	20	150	13
711305N	Statistics and Optimization Techniques (Elective)	3	0	0	3	70	0	30	20	120	13
711306N	Decision Models in Management (Elective)	3	0	0	3	70	0	30	20	120	13
711307N	Public Transportation Planning (Elective)	3	0	0	3	70	0	30	20	120	13
711308N	Highway Geometric Design (Elective)	3	0	0	3	70	0	30	20	120	13
Branch Code : 14 M.E. Construction Engineering & Management (Semester I)											
711401N	Construction Management	3	2	0	4	70	30	30	20	150	14
711402N	Construction Techniques	3	2	0	4	70	30	30	20	150	14
711403N	Stastistical and Numerical Analysis	3	2	0	4	70	30	30	20	150	14
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	14
711404N	Disaster management (Int.Elective)	3	2	0	4	70	30	30	20	150	14
711405N	Energy management (Int.Elective)	3	2	0	4	70	30	30	20	150	14
711406N	Construction Finance & Accounting (Elective)	4	2	0	5	70	30	30	20	150	14
711407N	TQM in Construction (Elective)	4	2	0	5	70	30	30	20	150	14
Branch Code : 15 M.E. Civil (CASAD) (Semester I)											
711501N	Matrix Analysis of Framed Structures	4	0	0	4	70	0	30	20	120	15
711502N	Structural Dynamics and Earthquake Engineering	4	0	0	4	70	0	30	20	120	15
711503N	Advanced Solid Mechanics	4	0	0	4	70	0	30	20	120	15
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	15
711504N	CASAD LAB-I	0	0	2	1	0	80	0	20	100	15

711505N	Cement & Concrete Lab	0	0	2	1	0	80	0	20	100	15
711506N	Basics of Reinforced Concrete and Masonry Construction (Int.Elective)	3	0	2	4	70	30	30	20	150	15
711507N	Numerical Methods (Elective)	3	2	0	4	70	30	30	20	150	15
711508N	Prestresssed Concrete (Elective)	3	2	0	4	70	30	30	20	150	15
711509N	Fracture Mechanics (Elective)	3	2	0	4	70	30	30	20	150	15
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 16 M.E. Chemical Engineering (Computer Aided Process Design) (Semester I)											
711601N	Advanced Thermodynamics	4	0	0	4	70	0	30	20	120	16
711602N	Advanced Kinetics & Reaction Engineering	4	0	0	4	70	0	30	20	120	16
711603N	Computerized Process Control	3	0	2	4	70	30	30	20	150	16
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	16
711604N	Advanced Computational Techniques for Research	0	0	4	2	0	80	0	20	100	16
711605N	Cleaner Production in Chemical Industries (Int.Elective)	3	2	0	4	70	30	30	20	150	16
711606N	Energy and Mass Integration (CAD Group) (Elective)	4	0	0	4	70	0	30	20	120	16
711607N	Polymer Science & Synthesis of Polymers (Polymer Group) (Elective)	4	0	0	4	70	0	30	20	120	16
Branch Code : 17 M.E. Environmental Engineering (Semester I)											
711701N	Principles of Water Treatment	4	0	2	5	70	30	30	20	150	17
711702N	Environmental Chemistry	4	0	2	5	70	30	30	20	150	17
711703N	Environmental Microbiology	3	0	2	4	70	30	30	20	150	17

710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	17
711704N	Environmental Impact Assessment for Engineering Projects (Int.Elective)	3	0	2	4	70	30	30	20	150	17
711705N	Advances in Environmental Laboratories (Elective)	3	0	2	4	70	30	30	20	150	17
711706N	Environmental Sanitation (Elective)	3	0	2	4	70	30	30	20	150	17
Branch Code : 18 M.E. Environmental Management (Semester I)											
711801N	Air Pollution Control andManagement	4	0	2	5	70	30	30	20	150	18
711802N	Industrial Wastewater Management	4	0	2	5	70	30	30	20	150	18
711803N	Municipal and Hazardous Solid Waste Management	4	0	0	4	70	0	30	20	120	18
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	18
711804N	Environmental Impact Assessment (Int.Elective)	3	2	0	4	70	30	30	20	150	18
711805N	Ground water Hydrology & contamination (Elective)	3	2	0	4	70	30	30	20	150	18
711806N	Water and waste water Treatment Technologies (Elective)	3	2	0	4	70	30	30	20	150	18
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 19 M.E. Transportation System Engineering (Semester I)											
711901N	Modeling, Analysis & Simulation	3	0	2	4	70	30	30	20	150	19
711902N	Traffic Engineering & Field Studies	4	0	2	5	70	30	30	20	150	19

711903N	Highway Materials & Testing	3	0	2	4	70	30	30	20	150	19
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	19
711904N	Transportation and Environments (Int.Elective)	3	0	2	4	70	30	30	20	150	19
711905N	Applied Statistics (Int.Elective)	3	0	2	4	70	30	30	20	150	19
711906N	Airport Planning and Design (Elective)	4	2	0	5	70	30	30	20	150	19
711907N	Highway Geometric Design (Elective)	4	2	0	5	70	30	30	20	150	19
711908N	Pavement System Management (Elective)	4	2	0	5	70	30	30	20	150	19
Branch Code : 20 M.E. (Civil) Structural Engineering (Semester I)											
712001N	Advanced Structurral Analysis	4	0	0	4	70	0	30	20	120	20
712002N	Structural Dynamics	4	0	0	4	70	0	30	20	120	20
712003N	Theory Of Elasticity & Stability	4	0	0	4	70	0	30	20	120	20
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	20
712004N	Computer Lab for Analysis	0	0	4	2	0	80	0	20	100	20
712005N	Basic Concepts Of Structural Behaviour(Int. Elective)	3	2	0	4	70	30	30	20	150	20
712006N	Numerical Methods (Elective)	3	2	0	4	70	30	30	20	150	20
712007N	Prestressed Concrete (Elective)	3	2	0	4	70	30	30	20	150	20
Branch Code : 21 M.E. Mechanical (Thermal Engineering) (Semester I)											
712101N	Applied Thermodynamics & Heat Transfer	4	0	0	4	70	0	30	20	120	21
712102N	Advanced Refrigeration	4	0	2	5	70	30	30	20	150	21
712103N	Fluid Mechanics & Gas Dynamics	4	0	2	5	70	30	30	20	150	21
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	21
712104N	Combustion Engineering (Major Elective 1)	3	2	0	4	70	30	30	20	150	21

712105N	Cryogenic Heat Exchangers(Major Elective 1)	3	2	0	4	70	30	30	20	150	21
712106N	Modeling Simulation & Computer Application (Int.Elective)	3	2	0	4	70	30	30	20	150	21
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test Marks	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical / Viva				
Branch Code : 22 M.E. Digital Communication (Semester I)											
710401N	Statistical Signal Analysis	3	2	0	4	70	30	30	20	150	22
710402N	Information Theory and Coding	4	0	2	5	70	30	30	20	150	22
710403N	ASIC Design	4	0	2	5	70	30	30	20	150	22
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	22
710404N	Image Processing (Int.Elective)	3	0	2	4	70	30	30	20	150	22
710405N	Fiber Optic Communication (Elective)	3	0	2	4	70	30	30	20	150	22
710406N	Speech Processing (Elective)	3	0	2	4	70	30	30	20	150	22
710407N	Biomedical Signal Processing (Elective)	3	0	2	4	70	30	30	20	150	22
710409N	Embedded System Design (Elective)	3	0	2	4	70	30	30	20	150	22
710410N	Introduction to Artificial Intelligence (Elective)	3	0	2	4	70	30	30	20	150	22
710411N	RF and Microwave Engineering (Elective)	3	0	2	4	70	30	30	20	150	22
710412N	Digital VLSI Design (Elective)	3	0	2	4	70	30	30	20	150	22
710413N	RF Microelectronics (Elective)	3	0	2	4	70	30	30	20	150	22
710417N	Microelectronics chip fabrication (Elective)	3	2	0	4	70	30	30	20	150	22
710418N	Satellite communication (Elective)	3	2	0	4	70	30	30	20	150	22

710419N	Antenna Engineering and Design (Elective)	3	0	2	4	70	30	30	20	150	22
710421N	Computer Aided Design for VLSI (Elective)	3	0	2	4	70	30	30	20	150	22
710422N	Digital Signal Processing and Applications (Elective)	3	0	2	4	70	30	30	20	150	22
710423N	Neuro Computing and Applications (Elective)	3	2	0	4	70	30	30	20	150	22
710424N	Machine Learning (Elective)	3	2	0	4	70	30	30	20	150	22
710425N	Robotics and Intelligent Systems (Elective)	3	2	0	4	70	30	30	20	150	22
710426N	Linear System Theory (Elective)	3	2	0	4	70	30	30	20	150	22
710427N	Soft Computing Technique and its Application in Engineering (Elective)	3	0	2	4	70	30	30	20	150	22
710428N	Recent topics in Modern Communication Engineering (Elective)	3	2	0	4	70	30	30	20	150	22
710601N	Wireless and Mobile Communication (Elective)	3	2	0	4	70	30	30	20	150	22
712201N	Detection And Estimation Theory (Elective)	3	2	0	4	70	30	30	20	150	22
712202N	Digital Telephony & Switching Networks(Elective)	3	2	0	4	70	30	30	20	150	22
Branch Code : 23 M.E. Information Technology (Semester I)											
712301N	Project Management	4	0	2	5	70	30	30	20	150	23
712302N	Advance Web Technology	4	0	2	5	70	30	30	20	150	23
712303N	Object Oriented Methodology	3	0	2	4	70	30	30	20	150	23
712304N	Ubiquitous Computing(Major Elective –I)	3	2	0	4	70	30	30	20	150	23
712305N	Distributed Computing(Major Elective –I)	3	2	0	4	70	30	30	20	150	23
712306N	Quantum Computing Algorithm Analysis(Major Elective –I)	3	2	0	4	70	30	30	20	150	23

710204N	Computer Graphics(Inter Disciplinary Elective-I)	3	0	2	4	70	30	30	20	150	23
710205N	Internet Technology(Inter Disciplinary Elective-I)	3	0	2	4	70	30	30	20	150	23
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	23
Branch Code : 24 M.E. Plastic Engineering (Semester I)											
712401N	Plastics Materials	4	0	0	4	70	0	30	20	120	24
712402N	Plastics Processing Technology	4	0	2	5	70	30	30	20	150	24
712403N	Plastics Mould & product Design	4	0	2	5	70	30	30	20	150	24
712404N	Additives & Compounding of Plastics (Minor Elective -I)	3	2	0	4	70	30	30	20	150	24
712405N	Biodegradable Plastics (Minor Elective -I)	3	2	0	4	70	30	30	20	150	24
712406N	Advanced Tool Design (Major Elective -I)	3	2	0	4	70	30	30	20	150	24
712407N	Polymer Blends & Alloys (Major Elective -I)	3	2	0	4	70	30	30	20	150	24
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	24
Branch Code : 25 M.E. Textile Engineering (Semester I)											
712501N	Theory of Textile Structure-I	4	0	0	4	70	0	30	20	120	25
712502N	Theory and Design of Textile Machinery -I	4	0	2	5	70	30	30	20	150	25
712503N	Modern Weaving Technology	4	0	2	5	70	30	30	20	150	25
712504N	Modern Spinning Technology (Inter Disciplinary Elective-I)	3	2	0	4	70	30	30	20	150	25
712505N	Texturising Technology (Major Elective-I)	3	2	0	4	70	30	30	20	150	25
712506N	Advance Spinning Technology (Major Elective-I)	3	2	0	4	70	30	30	20	150	25

710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	25
Branch Code : 26 M.E. Signal Processing and VLSI Technology (EC) (Semester I)											
712601N	Digital Signal Processing Algorithm & Processor Architecture	4	0	2	5	70	30	30	20	150	26
712602N	CMOS Circuit Design I	4	0	2	5	70	30	30	20	150	26
712603N	Digital Image Processing and Pattern Recognition	3	0	2	4	70	30	30	20	150	26
712604N	Computer Communication & Networking (Inter Disciplinary Elective -I)	3	0	2	4	70	30	30	20	150	26
712605N	Physics of MOS Transistor (Major Elective I)	4	0	0	4	70	0	30	20	120	26
712606N	Wavelet Transform and Applications (Major Elective I)	4	0	0	4	70	0	30	20	120	26
712607N	Foundation of VLSI CAD (Major Elective I)	4	0	0	4	70	0	30	20	120	26
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	26
Branch Code : 27 M.E. Wireless Communication Systems and Networks (EC) (Semester I)											
712701N	Wireless Comunication Network	4	0	0	4	70	0	30	20	120	27
712702N	3G Mobile Communication	4	0	2	5	70	30	30	20	150	27
712703N	Info Theory & Coding	4	0	2	5	70	30	30	20	150	27
710418N	Satellite communication (Inter Disciplinary Elective -I)	3	2	0	4	70	30	30	20	150	27
710411N	RF and Microwave Engineering (Major Elective I)	3	2	0	4	70	30	30	20	150	27
710419N	Antenna Engineering and Design (Major Elective I)	3	2	0	4	70	30	30	20	150	27

710428N	Recent topics in Modern Communication Engineering (Major Elective I)	3	2	0	4	70	30	30	20	150	27
710405N	Fiber Optic Communication (Major Elective I)	3	2	0	4	70	30	30	20	150	27
710422N	Digital Signal Processing and Applications (Major Elective I)	3	2	0	4	70	30	30	20	150	27
710409N	Embedded System Design (Major Elective I)	3	2	0	4	70	30	30	20	150	27
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	27
Branch Code : 28 M.E. Mechanical (Production Engg.) (Semester I)											
712801N	Advance casting Technology	4	0	0	4	70	0	30	20	120	28
712802N	Machining Science	4	0	2	5	70	30	30	20	150	28
712803N	Product Automation & CNC Technology	4	0	2	5	70	30	30	20	150	28
712804N	Rapid Prototype and Tooling (Inter Disciplinary Elective – I)	3	2	0	4	70	30	30	20	150	28
712805N	Design of Machine Tools (Major Elective - I)	3	2	0	4	70	30	30	20	150	28
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	28
M.E. Power Electronics (Semester I)											
712901N	Mathematics for Researchers	3	0	0	3	70	0	30	20	120	29
712902N	Power Processing Circuits	4	0	2	5	70	30	30	20	150	29
712903N	Digital Signal Controller	4	0	2	5	70	30	30	20	150	29
712904N	Advanced Control Theory (Major Elective- I)	4	0	2	5	70	30	30	20	150	29
712905N	Measurement and Instruments for Power Electronics (Major Elective- I)	4	0	2	5	70	30	30	20	150	29
712906N	Fundamental of Artificial Intelligence (Major Elective- I)	4	0	2	5	70	30	30	20	150	29

712907N	Power Devices & Applications (Inter Disciplinary-I)	3	0	2	4	70	30	30	20	150	29
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	29
Branch Code : 30 M.E. Chemical Engineering (Semester I)											
713001N	Advance Reactor Design	4	0	2	5	70	30	30	20	150	30
713002N	Adv. Instrumentation & Process Control	4	0	2	5	70	30	30	20	150	30
713003N	Advance Fluid Flow Operations	4	0	0	4	70	0	30	20	120	30
713004N	Advance Petroleum Refining (Major Elective - I)	3	2	0	4	70	30	30	20	150	30
713005N	Fertilizer Technology (Major Elective - I)	3	2	0	4	70	30	30	20	150	30
713006N	Nano-Devices Fabrication Technology (Interdisciplinary Elective-I)	3	2	0	4	70	30	30	20	150	30
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	30
nch Code : 31 M.E. Bio-Medical Engineering (Semest											
713101N	Medical System Design	4	0	2	5	70	30	30	20	150	31
713102N	Biosensors & Biomems	4	0	0	4	70	0	30	20	120	31
713103N	Biomedical Image Processing	3	0	2	4	70	30	30	20	150	31
713104N	Bio-Signal Processing (Major Elective -I)	4	0	2	5	70	30	30	20	150	31
713105N	Medical Safety And Waste Management (Major Elective -I)	4	0	2	5	70	30	30	20	150	31
713106N	Intellectual Property Rights (Inter Disciplinary Elective - I)	3	0	2	4	70	30	30	20	150	31
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	31
de : 39 M.E. Energy Engineering (Semester I)(w.e.f.											

710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	39
713901N	Energy Resources, Economics and Environment	4	0	0	4	70	0	30	20	120	39
713902N	Energy Conversion Systems	4	0	0	4	70	0	30	20	120	39
713903N	Optimum Utilization of Heat and Power	3	0	2	4	70	30	30	20	150	39
711604N	Advanced Computational Techniques for Research	0	0	4	2	0	80	0	20	100	39
713904N	Advanced Thermal Engineering (Mechanical Group) (Major Elective-I)	4	0	0	4	70	0	30	20	120	39
713905N	Fuels and Combustion Technology (Chemical Group) (Major Elective-I)	4	0	0	4	70	0	30	20	120	39
713906N	Energy Efficient Motors (Electrical Group) (Major Elective-I)	4	0	0	4	70	0	30	20	120	39
713907N	Renewable Energy System (Inter Disciplinary Elective - I)	3	2	0	4	70	30	30	20	150	39
de : 40 M.E. Rubber Engineering (Semester I)(w.e.f.											
710001N	Communication & Research Skills	2	2	0	3	70	0	30	20	120	40
714001N	The Physics of Rubber Elasticity	4	0	0	4	70	0	30	20	120	40
714002N	Mixing of Rubbers	4	2	0	5	70	30	30	20	150	40
714003N	Rubber Cultivation & Rubber Lattices	3	0	2	4	70	30	30	20	150	40
714004N	Modelling & Simulation of Rubber Processing (Major Elective-I)	4	2	0	5	70	30	30	20	150	40
714005N	Rubber Processing Equipment Design (Major Elective-I)	4	2	0	5	70	30	30	20	150	40

714006N	Cleaner Production in Rubber Industries (Inter Disciplinary Elective - I)	3	2	0	4	70	30	30	20	150	40
Branch Code : 41 Signal Processing & Communication (Semester I)(w.e.f. Aug 2011)											
710001N	Communication and Research Skill	2	2	0	3	70	0	30	20	120	41
714101N	Mathematical Methods in Signal Processing	3	2	0	4	70	30	30	20	150	41
714102N	Modern Digital and Wireless Communication	4	0	2	5	70	30	30	20	150	41
714103N	Digital Signal Processor Architecture	4	0	2	5	70	30	30	20	150	41
714104N	Digital Image Processing and Applications(Major Elective I)	3	0	2	4	70	30	30	20	150	41
710418N	Satellite Communication(Major Elective I)	3	0	2	4	70	30	30	20	150	41
710426N	Linear Systems Theory (Minor Elective I)	3	0	2	4	70	30	30	20	150	41
710412N	Digital VLSI Design(Minor Elective I)	3	0	2	4	70	30	30	20	150	41
710405N	Fiber Optic Communication(Minor Elective I)	3	0	2	4	70	30	30	20	150	41
Branch Code : 42 M.E. in VLSI System Design (Semester I)(w.e.f. Aug 2011)											
710001N	Communication & Reserch Skills	2	2	0	3	70	0	30	20	120	42
714201N	Principles of VLSI Design	4	0	2	5	70	30	30	20	150	42
714202N	Applied Algorithm for VLSI CAD	4	0	0	4	70	0	30	20	120	42
714203N	Advanced MOSFET Modeling	4	0	0	4	70	0	30	20	120	42
714204N	Advanced DSP System & Architecture(Major Elective - I)	3	0	2	4	70	30	30	20	150	42
710409N	Embedded System Design(Major Elective - I)	3	0	2	4	70	30	30	20	150	42

714205N	Advanced Digital Design (Minor Elective I)	3	0	2	4	70	30	30	20	150	42
714206N	Semiconductor Physics (Minor Elective I)	3	0	2	4	70	30	30	20	150	42
714207N	HDL Based Design & Simulation Lab	0	0	2	1	0	80	0	20	100	42
Branch Code : 43 M.E. GeoTech (Semester I)(w.e.f. Aug 2011)											
710001N	Communication and Research Skills	2	2	0	3	70	0	30	20	120	43
714301N	Advanced Geotechnical Engineering-I	4	-	-	4	70	0	30	20	120	43
714302N	Soil Dynamics	4	-	-	4	70	0	30	20	120	43
714303N	Theory of Elasticity and Plasticity	4	-	-	4	70	0	30	20	120	43
714307N	Experimental Geotechnics	-	-	2	1	0	80	0	20	100	43
714308N	Geotechnical Engineering Software Lab-1	-	2	-	1	0	80	0	20	100	43
714304N	Numerical Methods in Geotechnical Engineering(Major Elective - I)	3	2	0	4	70	30	30	20	150	43
714305N	Soil Stabilization and Grouting Technology(Major Elective - I)	3	2	0	4	70	30	30	20	150	43
714306N	Soil Improvement Techniques(Inter Disciplinary Elective - I)	3	2	-	4	70	30	30	20	150	43
Branch Code : 44 M.E Wireless Communication Technology (Semester I)(w.e.f. Aug 2011)											
710001N	Communication & Research Skills	2	2	-	3	70	0	30	20	120	44
714401N	Wireless Communication Theory	4	2	-	5	70	30	30	20	150	44
712703N	Info. Theory & Coding	4	0	2	5	70	30	30	20	150	44
714402N	Advanced Digital Signal Processing	3	-	2	4	70	30	30	20	150	44

714403N	Modern Digital Communication Techniques(Major Elective I)	3	-	2	4	70	30	30	20	150	44
714404N	VLSI in Wireless Communication Systems(Major Elective I)	3	-	2	4	70	30	30	20	150	44
714405N	Advanced Radiation System(Major Elective I)	3	-	2	4	70	30	30	20	150	44
710418N	Satelite Communication(Inter Disciplinary Elective - I)	3	2	-	4	70	30	30	20	150	44
Branch Code : 45 M.E Power Electronics & Electrical Drives (Semester I)(w.e.f. Sept- 2011)											
710001N	Communication & Research Skills	2	2	0	3	70	0	30	20	120	45
714501N	Power Electronics-I	4	0	2	5	70	30	30	20	150	45
714502N	Solid State DC Drives	4	0	2	5	70	30	30	20	150	45
710703N	Modern Control System	3	0	0	3	70	0	30	20	120	45
704503N	Power Electronics Simulation Laboratory	0	0	4	2	0	80	0	20	100	45
714504N	Modeling & Analysis of Electric Machines(Major Elective - I)	3	0	0	3	70	0	30	20	120	45
714505N	Power Conditioning(Major Elective - I)	3	0	0	3	70	0	30	20	120	45
710706N	Energy Management(Inter Disciplinary Elective - I)	3	0	2	4	70	30	30	20	150	45
Branch Code : 46 M.E. Mechanical (Industrial Engineering) (w.e.f. July 2012)											
710001	Communication and Research Skills	2	2	0	3	70	0	30	20	120	46
714601	Statistics for Engineers	4	0	0	4	70	0	30	20	120	46
714602	Work System Design and Human Factors Engineering	4	0	2	5	70	30	30	20	150	46
714603	Advance Operations Research	3	2	0	4	70	30	30	20	150	46
714605	Engineering Economics & Financial Management (Major Elective - I)	4	2	0	5	70	30	30	20	150	46

714606	Reliability Engineering & Tero Technology (Major Elective - I)	4	2	0	5	70	30	30	20	150	46
714604	Production Management Systems (Interdisciplinary Elective – I)	3	2	0	4	70	30	30	20	150	46
Branch Code: 47 M.E. Mechatronics (w.e.f. July 2012)											
710001	Communication and Research Skills	2	2	0	3	70	0	30	20	120	47
714701	Concepts in Mechatronics Engineering.	4	0	2	5	70	30	30	20	150	47
714702	Advance Control Systems	4	0	2	5	70	30	30	20	150	47
714703	Sensor Technology	3	0	2	4	70	30	30	20	150	47
714705	Finite Element Procedures in Engineering (Major Elective – I)	3	2	0	4	70	30	30	20	150	47
714706	Engineering Metrology (Major Elective – I)	3	2	0	4	70	30	30	20	150	47
714707	Soft Computing Applications (Major Elective – I)	3	2	0	4	70	30	30	20	150	47
714704	Optimization Theory and Practice (Interdisciplinary Elective – I)	3	0	2	4	70	30	30	20	150	47
Branch Code : 48 M.E. Civil (TOWN AND COUNTRY PLANNING) (w.e.f. July 2012)											
714801	Planning History &Theory	4	0	0	4	70	0	30	20	120	48
714802	Urban Housing	3	0	0	3	70	0	30	20	120	48
714803	Infrastructure and Transportation Planning	2	0	2	3	70	30	30	20	150	48
710001	Communication and Research Skills	2	2	0	3	70	0	30	20	120	48
714809	Planning Studio – I	0	0	6	3	0	80	0	20	100	48
714810	Graduate Report – I	0	0	4	2		80	0	20	100	48
714804	Sustainable Building Planning (Inter disciplinary – I)	3	2	0	4	70	30	30	20	150	48
714805	Urban Heritage Conservation (Inter disciplinary – I)	3	2	0	4	70	30	30	20	150	48

714806	Socio-economic bases for planning (Major Elective – I)	2	2	0	3	70	30	30	20	150	48
714807	Urban Land Management (Major Elective – I)	2	2	0	3	70	30	30	20	150	48
714808	Urban Governance and Development Management (Major Elective – I)	2	2	0	3	70	30	30	20	150	48
Branch Code: 49 M.E. (Civil) (Construction Management)											
714901	Construction Project Management-I	4	2	0	5	70	30	30	20	150	49
714902	Advanced Construction Techniques	3	2	0	4	70	30	30	20	150	49
710001	Communication & Research Skill	2	2	0	3	70	0	30	20	120	49
714903	Application of Statistical Techniques & Numerical Methods	3	2	0	4	70	30	30	20	150	49
711404	Disaster Management (Inter disciplinary – I)	3	2	0	4	70	30	30	20	150	49
714904	Energy System Planning & Management (Inter disciplinary – I)	3	2	0	4	70	30	30	20	150	49
714905	Total Quality Management for Construction Projects (Major Elective – I)	4	2	0	5	70	30	30	20	150	49
714906	Project Risk Analysis & Mitigation Practices (Major Elective – I)	4	2	0	5	70	30	30	20	150	49
Branch Code: 50 Mechanical (Advance Manufacturing System) (w.e.f. July 2012)											
715001	Production and Operation Management	4	2	0	5	70	30	30	20	150	50
715002	CAD-CAM Systems	4	0	2	5	70	30	30	20	150	50

715003	Advanced Manufacturing Processes	4	0	2	5	70	30	30	20	150	50
710001	Communication and Research Skills	2	2	0	3	70	0	30	20	120	50
715005	Design for Manufacture and Assembly (Major Elective – I)	3	0	0	3	70	0	30	20	120	50
715006	Flexible Competitive Manufacturing System (Major Elective – I)	3	0	0	3	70	0	30	20	120	50
710807	Advanced Materials and Processes (Major Elective – I)	3	0	0	3	70	0	30	20	120	50
715004	Optimization Methods For Engineering Systems (Interdisciplinary Elective – I)	3	2	0	4	70	30	30	20	150	50