

GUJARAT TECHNOLOGICAL UNIVERSITY

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 -III)											
730101	Advance Wide Area Network & Web Technology	0	0	4	2	0	80	0	20	100	1
730102	Major Elective IV-Advance Web Technology	4	0	2	5	70	30	30	20	150	1
730103	Major Elective IV-Soft Computing	4	0	2	5	70	30	30	20	150	1
730104	Major Elective IV-Software Engineering Methodology	4	0	2	5	70	30	30	20	150	1
730001	Seminar	0	0	4	2	0	0	0	100	100	1
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	1
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	1
Branch Code : 2 M.E. Computer Engineering (Semester -III)											
730201	System Programming	0	0	4	2	0	80	0	20	100	2
730202	Major Elective IV- Advanced Internet Technology	4	0	2	5	70	30	30	20	150	2
730203	Major Elective IV-Real Time Systems	4	0	2	5	70	30	30	20	150	2
730204	Major Elective IV-Embedded Systems	4	0	2	5	70	30	30	20	150	2
730205	Major Elective IV-Fuzzy Logic and Neural Networks	4	0	2	5	70	30	30	20	150	2
730001	Seminar	0	0	4	2	0	0	0	100	100	2
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	2
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	2
Branch Code : 3 M.E. Instrumentation and Control (Applied Instrumentation) (Semester-III)											
730004	Entrepreneurship Development	2	0	0	2	70	0	30	20	120	3
730301	Major Elective IV-Quantitative Feedback Theory	4	0	2	5	70	30	30	20	150	3
730302	Major Elective IV-Electronics Systems Design	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				
730303	Major Elective IV-VLSI Design	4	0	2	5	70	30	30	20	150	3
730001	Seminar	0	0	4	2	0	0	0	100	100	3
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	3
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	3
Branch Code : 4 M.E. Electronics and Communication Engineering (Semester -III)											
730401	RF laboratory	0	0	4	2	0	80	0	20	100	4
730402	Major Elective IV -Computer Vision	4	0	2	5	70	30	30	20	150	4
730403	Major Elective IV -Optimization Techniques	4	0	2	5	70	30	30	20	150	4
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	70	30	30	20	150	4
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	70	30	30	20	150	4
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	70	30	30	20	150	4
730001	Seminar	0	0	4	2	0	0	0	100	100	4
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	4
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	4
Branch Code : 5 M.E. Communication Systems Engineering (Semester III)											
730401	RF laboratory	0	0	4	2	0	80	0	20	100	5
730402	Major Elective IV -Computer Vision	4	0	2	5	70	30	30	20	150	5
730403	Major Elective IV -Optimization Techniques	4	0	2	5	70	30	30	20	150	5
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	70	30	30	20	150	5
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	70	30	30	20	150	5
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	70	30	30	20	150	5
730001	Seminar	0	0	4	2	0	0	0	100	100	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				
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	5
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	5
Branch Code : 6 M.E. Communication Engineering (Semester -III)											
730401	RF laboratory	0	0	4	2	0	80	0	20	100	6
730402	Major Elective IV -Computer Vision	4	0	2	5	70	30	30	20	150	6
730403	Major Elective IV -Optimization Techniques	4	0	2	5	70	30	30	20	150	6
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	70	30	30	20	150	6
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	70	30	30	20	150	6
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	70	30	30	20	150	6
730001	Seminar	0	0	4	2	0	0	0	100	100	6
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	6
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	6
Branch Code : 7 M.E. Electrical Engineering (Semester- III)											
730701	Power Quality Management	2	0	0	2	70	0	30	20	120	7
730702	Major Elective - IV -Application of Artificial Intelligence to Power Systems	4	0	2	5	70	30	30	20	150	7
730703	Major Elective - IV -Intelligent Control	4	0	2	5	70	30	30	20	150	7
730704	Major Elective - IV -Advanced Electrical Drives	4	0	2	5	70	30	30	20	150	7
730705	Major Elective - IV -Data Communication & Networking	4	0	2	5	70	30	30	20	150	7
730001	Seminar	0	0	4	2	0	0	0	100	100	7
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	7
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	7
Branch Code : 8 M.E. Mechanical (CAD/CAM) (Semester -III)											

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				
730801	Engineering Optimization	2	0	0	2	70	0	30	20	120	8
730802	Major Elective - IV - Artificial Intelligence	4	--	2	5	70	30	30	20	150	8
730803	Major Elective - IV - Soft Computing Methods	5	--	2	5	70	30	30	20	150	8
730804	Major Elective - IV - Design of Material Handling Equipments	4	--	2	5	70	30	30	20	150	8
730001	Seminar	0	0	4	2	0	0	0	100	100	8
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	8
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	8
Branch Code : 9 M.E. Mechanical (Machine Design) (Semester -III)											
730901	FEM Laboratory	0	0	4	2	0	80	0	20	100	9
730902	Major Elective - IV - Fracture Mechanics	4	2	0	5	70	30	30	20	150	9
730903	Major Elective - IV - Product Design	4	2	0	5	70	30	30	20	150	9
730904	Major Elective - IV - Design of Material Handling Equipments	4	2	0	5	70	30	30	20	150	9
730905	Major Elective - IV - Gear Design	4	2	0	5	70	30	30	20	150	9
730001	Seminar	0	0	4	2	0	0	0	100	100	9
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	9
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	9
Branch Code : 10 M.E. MECHANICAL (CRYOGENIC ENGINEERING) (Semester- III)											
731001	Low Temperature Measurement and Instrumentation	2	0	0	2	70	0	30	20	120	10
731002	Major Elective - IV - Advanced Cryo Coolers	4	0	2	5	70	30	30	20	150	10
731003	Major Elective - IV - Superconductivity and Low Temperature Physics	4	0	2	5	70	30	30	20	150	10
730001	Seminar	0	0	4	2	0	0	0	100	100	10
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	10

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				
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	10
Branch Code : 11 M.E. MECHANICAL (I.C.ENGINE & AUTOMOBILE) (Semester- III)											
731101	I.C.Engine modeling and Simulation	2	0	0	2	70	0	30	20	120	11
731102	Major Elective - IV - Heat transfer equipments in Automobile	4	2	0	5	70	30	30	20	150	11
731103	Major Elective - IV - Automotive Aerodynamics & Safety	4	2	0	5	70	30	30	20	150	11
730001	Seminar	0	0	4	2	0	0	0	100	100	11
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	11
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	11
Branch Code : 12 M.E. Civil (Water Resources Management) (Semester - III)											
731201	Water Supply and Drainage	2	0	0	2	70	0	30	20	120	12
731202	Major Elective - IV - Water Use Management	4	2	0	5	70	30	30	20	150	12
731203	Major Elective - IV - Costal Engineering	4	2	0	5	70	30	30	20	150	12
731204	Major Elective - IV - Flood Management	4	2	0	5	70	30	30	20	150	12
730001	Seminar	0	0	4	2	0	0	0	100	100	12
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	12
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	12
Branch Code : 13 M.E. Civil (Transportation Engineering) (Semester - III)											
731301	Transportation Design Project	0	0	4	2	0	80	0	20	100	13
731302	Major Elective - IV - Soft Computing Techniques	4	0	2	5	70	30	30	20	150	13
731303	Major Elective - IV - Traffic Flow Theories and Simulation	4	0	2	5	70	30	30	20	150	13
731304	Major Elective - IV - Mode Choice Modeling and Trip Assignment Techniques	4	0	2	5	70	30	30	20	150	13
731305	Major Elective - IV - Pavement Management System	4	0	2	5	70	30	30	20	150	13

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		Theory	Tutorial	Practical		Theory	Practical/Viva				
730001	Seminar	0	0	4	2	0	0	0	100	100	13
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	13
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	13
Branch Code : 14 M.E. CIVIL (CONSTRUCTION ENGINEERING & MANAGEMENT) (Semester III) (Revised-Aug-11)											
731401	Personnel Management	3	0	0	3	70	0	30	20	120	14
731402	Major Elective IV - Operation research in construction	4	0	2	5	70	30	30	20	150	14
731403	Major Elective IV - Repair, Retrofitting & Rehabilitation	4	0	2	5	70	30	30	20	150	14
730001	Seminar	0	0	4	2	0	0	0	100	100	14
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	14
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	14
Branch Code : 15 M.E. Civil (CASAD) (Semester - III)											
731501	Structural and Earthquake Engineering Lab	0	0	4	2	0	80	0	20	100	15
731502	Major Elective IV - International Codes based Design of Reinforced Concrete	4	0	2	5	70	30	30	20	150	15
731503	Major Elective IV - Structural Masonry	4	0	2	5	70	30	30	20	150	15
731504	Major Elective IV - Plates and Shells	4	0	2	5	70	30	30	20	150	15
730001	Seminar	0	0	4	2	0	0	0	100	100	15
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	15
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	15
Branch Code : 16 M.E. Chemical Engineering (Computer Aided Process Design) (Semester - III)											
731601	Process Intensification	2	0	0	2	70	0	30	20	120	16
731602	Major Elective IV - Computer Aided Product and Process Design	4	0	2	5	70	30	30	20	150	16
731603	Major Elective IV - Polymer Structure & Property Prediction	4	0	2	5	70	30	30	20	150	16
730001	Seminar	0	0	4	2	0	0	0	100	100	16

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				
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	16
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	16
Branch Code : 17 M.E. Environmental Engineering (Semester - III)											
730004	Entrepreneurship Development	2	0	0	2	70	0	30	20	120	17
731701	Major Elective IV - Design Of Water and Waste water System	4	0	2	5	70	30	30	20	150	17
731702	Major Elective IV - Membrane Processes in water and waste water	4	0	2	5	70	30	30	20	150	17
730001	Seminar	0	0	4	2	0	0	0	100	100	17
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	17
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	17
Branch Code : 18 M.E. Environmental Management (Semester - III)											
731801	Advanced Wastewater Treatment Technologies	2	0	0	2	70	0	30	20	120	18
731802	Major Elective IV - Preventive Environmental Management	4	0	2	5	70	30	30	20	150	18
731803	Major Elective IV - Climate Change	4	0	2	5	70	30	30	20	150	18
731804	Major Elective IV - Industrial Hygiene & Safety	4	0	2	5	70	30	30	20	150	18
730001	Seminar	0	0	4	2	0	0	0	100	100	18
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	18
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	18
Branch Code : 19 M.E. CIVIL (TRANSPORTATION SYSTEM ENGINEERING) (Semester - III)											
731901	Transportation Project Work	0	0	4	2	0	80	0	20	100	19
731902	Major Elective IV - Transportation Economics and Project Evaluation	4	0	2	5	70	30	30	20	150	19
731903	Major Elective IV -Highway Safety Audits	4	0	2	5	70	30	30	20	150	19
731904	Major Elective IV - Intersection Design and Analysis	4	0	2	5	70	30	30	20	150	19
730001	Seminar	0	0	4	2	0	0	0	100	100	19

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		Theory	Tutorial	Practical		Theory	Practical/Viva				
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	19
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	19
Branch Code : 20 M.E. (Civil) Structural Engineering (Semester - III)											
732001	Experimental Structural Engineering	0	0	4	2	0	80	0	20	100	20
732002	Major Elective IV - Design Of Earthquake Resistant Structures	4	0	2	5	70	30	30	20	150	20
732003	Major Elective IV - Soil Structure Interaction	4	0	2	5	70	30	30	20	150	20
730001	Seminar	0	0	4	2	0	0	0	100	100	20
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	20
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	20
Branch Code : 21 M.E. Mechanical (Thermal Engineering) (Semester - III)											
730004	Entrepreneurship Development	2	0	0	2	70	0	30	20	120	21
732101	Major Elective IV -Advanced Internal Combustion Engine	4	0	2	5	70	30	30	20	150	21
732102	Major Elective IV - Cryogenic Engineering	4	0	2	5	70	30	30	20	150	21
732103	Major Elective IV - Economics & Management of Thermal Systems	4	0	2	5	70	30	30	20	150	21
730001	Seminar	0	0	4	2	0	0	0	100	100	21
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	21
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	21
Branch Code : 22 M.E. Digital Communication (Semester - III)											
730401	RF laboratory	0	0	4	2	0	80	0	20	100	22
730402	Major Elective IV -Computer Vision	4	0	2	5	70	30	30	20	150	22
730403	Major Elective IV -Optimization Techniques	4	0	2	5	70	30	30	20	150	22
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	70	30	30	20	150	22
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	70	30	30	20	150	22

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		Theory	Tutorial	Practical		Theory	Practical/Viva				
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	70	30	30	20	150	22
730001	Seminar	0	0	4	2	0	0	0	100	100	22
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	22
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	22
Branch Code : 23 M.E. Information Technology (Semester II)											
732301	Computing systems and Operating Systems	0	0	4	2	0	80	0	20	100	23
732302	Major Elective IV - Internetworking and Applications	4	0	2	5	70	30	30	20	150	23
732303	Major Elective IV - Software forensics	4	0	2	5	70	30	30	20	150	23
732304	Major Elective IV - Speech and Image processing	4	0	2	5	70	30	30	20	150	23
730001	Seminar	0	0	4	2	0	0	0	100	100	23
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	23
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	23
Branch Code : 24 M.E. Plastic Engineering (Semester II)											
730004	Entrepreneurship Development	2	0	0	2	70	0	30	20	120	24
732401	Major Elective IV - Plastics Packaging Technology	4	0	2	5	70	30	30	20	150	24
732402	Major Elective IV - Thermo Plastics Elastomers	4	0	2	5	70	30	30	20	150	24
732403	Major Elective IV - Bio medical Plastics	4	0	2	5	70	30	30	20	150	24
730001	Seminar	0	0	4	2	0	0	0	100	100	24
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	24
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	24
Branch Code : 25 M.E. Textile Engineering (Semester II)											
732501	Evaluation of Textile Materials	0	0	4	2	0	80	0	20	100	25
732502	Major Elective IV - Technical Textile	4	0	2	5	70	30	30	20	150	25

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732503	Major Elective IV - Advanced Testing and Quality Management in Textiles	4	0	2	5	70	30	30	20	150	25
730001	Seminar	0	0	4	2	0	0	0	100	100	25
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	25
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	25
Branch Code : 26 M.E. Signal Processing and VLSI Technology (EC) (Semester II)											
732601	VLSI Design Laboratory	0	0	4	2	0	80	0	20	100	26
732602	Major Elective IV - Radar Signal Processing	4	0	2	5	70	30	30	20	150	26
732603	Major Elective IV - Array Signal Processing	4	0	2	5	70	30	30	20	150	26
732604	Major Elective IV - Low- Power CMOS VLSI Circuit Design	4	0	2	5	70	30	30	20	150	26
730001	Seminar	0	0	4	2	0	0	0	100	100	26
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	26
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	26
Branch Code : 27 M.E. Wireless Communication Systems and Networks (EC) (Semester III)											
730401	RF laboratory	0	0	4	2	0	80	0	20	100	27
732701	Major Elective IV - Smart Antennas for wireless communication	4	0	2	5	70	30	30	20	150	27
730403	Major Elective IV - Optimization Techniques	4	0	2	5	70	30	30	20	150	27
730404	Major Elective IV - Applied Linear Algebra in Engineering	4	0	2	5	70	30	30	20	150	27
730405	Major Elective IV - Adaptive signal Processing	4	0	2	5	70	30	30	20	150	27
730406	Major Elective IV - Peripheral System Design & Interfacing	4	0	2	5	70	30	30	20	150	27
730001	Seminar	0	0	4	2	0	0	0	100	100	27
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	27
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	27

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		Theory	Tutorial	Practical		Theory	Practical/Viva				
Branch Code : 28 M.E. Mechanical (Production Engg.) (Semester III)											
732801	Flexible Manufacturing Systems	2	0	0	2	70	0	30	20	120	28
732802	Major Elective IV - Artificial Intelligence in Manufacturing	4	0	2	5	70	30	30	20	150	28
732803	Major Elective IV -Quality Engineering and Management	4	0	2	5	70	30	30	20	150	28
730001	Seminar	0	0	4	2	0	0	0	100	100	28
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	28
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	28
Branch Code : 29 M.E. Power Electronics (Semester III)											
732901	Reliability and Maintainability Engineering	2	0	0	2	70	0	30	20	120	29
732902	Major Elective IV - VLSI Circuits and Design	4	0	2	5	70	30	30	20	150	29
732903	Major Elective IV - EMC in Power Electronics	4	0	2	5	70	30	30	20	150	29
730001	Seminar	0	0	4	2	0	0	0	100	100	29
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	29
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	29
Branch Code : 30 M.E. Chemical Engineering (Semester III)											
733001	Advance process optimization	2	0	0	2	70	0	30	20	120	30
733002	Major Elective IV - Catalysis	4	2	0	5	70	30	30	20	150	30
733003	Major Elective IV - Introduction to Polymer Science and Technology	4	2	0	5	70	30	30	20	150	30
730001	Seminar	0	0	4	2	0	0	0	100	100	30
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	30
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	30
Branch Code : 31 M.E. Bio-Medical Engineering (Semester III)											
730004	Entrepreneurship Development	2	0	0	2	70	0	30	20	120	31
733101	Major Elective IV - Functional Magnetic Resonance Imaging	4	0	2	5	70	30	30	20	150	31

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				
733102	Major Elective IV - Cardiovascular Mechanics	4	0	2	5	70	30	30	20	150	31
730001	Seminar	0	0	4	2	0	0	0	100	100	31
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	31
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	31
Branch Code : 39 M.E. (Energy Engineering) (Semester -III) (w.e.f. July 2012)											
733901	Green Energy Engineering	2	0	0	2	70	0	30	20	120	39
730001	Seminar	0	0	4	2	0	0	0	100	100	39
730002	Presentation of Literature Review	0	0	0	2	0	0	0	100	100	39
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	39
733902	Bio Energy Engineering (Major Elective IV)	4	2	0	5	70	30	30	20	150	39
733903	Cryogenics Engineering (Major Elective IV)	4	2	0	5	70	30	30	20	150	39
733904	Energy Efficient Devices (Major Elective IV)	4	2	0	5	70	30	30	20	150	39
Branch 40 : M.E. (Rubber Technology) (Semester -III)											
734001	Rubber Waste Utilisation	2	0	0	2	70	0	30	20	120	40
730001	Seminar	0	0	4	2	0	0	0	100	100	40
730002	Presentation of Literature Review	0	0	0	2	0	0	0	100	100	40
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	40
734002	Elastomeric Gel & Polymer Clay(Synthesis Group) (Major Elective IV)	4	2	0	5	70	30	30	20	150	40
734003	Powder & Particulate Technology(Product & Process Design Group) (Major Elective IV)	4	2	0	5	70	30	30	20	150	40
Branch 41 : M.E. EC (SIGNAL PROCESSING & COMMUNICATION) (Semester -III)											
734101	Signal Processing & Communication Lab	0	0	4	2	0	80	0	20	100	41
730001	Seminar	0	0	4	2	0	0	0	100	100	41
730002	Presentation of Literature Review	0	0	0	2	0	0	0	100	100	41
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	41

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				
734102	Digital Audio Coding (Major Elective IV)	4	0	2	5	70	30	30	20	150	41
734103	Multimedia Signal Processing and Communication (Major Elective IV)	4	0	2	5	70	30	30	20	150	41
734104	Digital Watermarking and Steganography (Major Elective IV)	4	0	2	5	70	30	30	20	150	41
Branch 42 M.E. EC (VLSI System Design) (Semester -III) (W.E.F July 2012)											
734201	ASIC Design Lab	0	0	4	2	0	80	0	20	100	42
730001	Seminar	0	0	4	2	0	0	0	100	100	42
730002	Presentation of Literature Review	-	-	-	2	0	0	0	100	100	42
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	42
734202	IC Fabrication Technology (Major Elective IV)	4	2	0	5	70	30	30	20	150	42
734203	High Speed CMOS VLSI Circuit (Major Elective IV)	4	2	0	5	70	30	30	20	150	42

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 43 M.E. (Geotechnical Engineering) (Semester -III)											
734301	Environmental Geotechnology	2	0	0	2	70	0	30	20	120	43
734302	Major Elective IV - Rock Opening and Tunnels	4	0	2	5	70	30	30	20	150	43
730001	Seminar	0	0	4	2	0	0	0	100	100	43
730002	Presentation of Literature Review	--	--	--	2	0	80	0	20	100	43
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	43
Branch 44 M.E. (EC) (Wireless Communication Technology) (Semester -III)											
730401	RF laboratory	0	0	4	2	0	80	0	20	100	44
730001	Seminar	0	0	4	2	0	0	0	100	100	44
730002	Presentation of Literature Review	0	0	0	2	0	0	0	100	100	44
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	44
734401	Software radio design (Major Elective IV)	4	0	2	5	70	30	30	20	150	44
734402	Radio frequency identification (Major Elective IV)	4	0	2	5	70	30	30	20	150	44
Branch Code : 45 M.E. ELECTRICAL (POWER ELECTRONICS AND ELECTRICAL DRIVES) (Semester III)											
734501	Application Of Power Electronics To Power System	3	0	0	3	70	0	30	20	120	45
730001	Seminar	0	0	4	2	0	0	0	100	100	45
730002	Presentation Of Literature Review	0	0	0	2	0	0	0	100	100	45
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	45
734502	Major Elective IV - EMC In Power Electronics	3	0	2	4	70	30	30	20	150	45
734503	Major Elective IV - Embedded Control Of Electric Drives	3	0	2	4	70	30	30	20	150	45
Branch Code : 46 M.E. Industrial (Semester III)											
734601	Industrial Psychology	2	0	0	2	70	0	30	0	100	46
734602	Energy Engineering and Management (Major Elective IV)	4	2	0	5	70	30	30	20	150	46
734603	Enterprise Resource Planning (Major Elective IV)	4	2	0	5	70	30	30	20	150	46

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				
734604	Logistics and Supply Chain Management (Major Elective IV)	4	2	0	5	70	30	30	20	150	46
734605	Strategic Technology Management (Major Elective IV)	4	2	0	5	70	30	30	20	150	46
730001	Seminar	0	0	4	2	0	0	0	100	100	46
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	46
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	46
Branch Code : 47 M.E. Mechatronics (Semester III)											
734701	Simulation and Modeling	2	0	0	2	70	0	30	20	120	47
734702	Robotic Engineering (Major Elective – IV)	4	0	2	5	70	30	30	20	150	47
734703	Dynamics of Machines (Major Elective – IV)	4	0	2	5	70	30	30	20	150	47
734704	Rapid Prototyping & Tooling (Major Elective – IV)	4	0	2	5	70	30	30	20	150	47
730001	Seminar	0	0	4	2	0	0	0	100	100	47
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	47
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	47
Branch Code : 48 M.E. Town & Country Planning (Semester III)											
734801	Professional Planning Studio	0	0	4	2	0	80	0	20	100	48
734802	Major Elective IV – Urban Design & Landscape Development	4	0	2	5	70	30	30	20	150	48
734803	Major Elective IV – Poverty & Development Planning	4	0	2	5	70	30	30	20	150	48
734804	Major Elective IV – Politics & Public Policy Planning	4	0	2	5	70	30	30	20	150	48
730001	Seminar	0	0	4	2	0	0	0	100	100	48
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	48
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	48
Branch Code : 49 M.E. Construction Management (Semester III)											
734901	Mini Project	0	0	4	2	0	80	0	20	100	49

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				
734902	Elements of Value Engineering-Major Elective-IV	4	2	-	5	70	30	30	20	150	49
734903	Application of Geoinformatics in construction management-Major Elective-IV	4	2	-	5	70	30	30	20	150	49
734904	Eco-friendly constructions-Major Elective-IV	4	2	-	5	70	30	30	20	150	49
730001	Seminar	0	0	4	2	0	0	0	100	100	49
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	49
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	49
Branch Code : 50 M.E. Advance Manufacturing System (Semester III)											
735001	Simulation Modeling of Manufacturing System	2	0	0	2	70	0	30	20	120	50
735002	Decision Modeling (Major Elective IV)	4	2	0	5	70	30	30	20	150	50
735003	Micro & Nano Manufacturing System (Major Elective IV)	4	2	0	5	70	30	30	20	150	50
735004	Lean Manufacturing System and Implementation (Major Elective IV)	4	2	0	5	70	30	30	20	150	50
730001	Seminar	0	0	4	2	0	0	0	100	100	50
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	50
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	50
Branch Code : 54 M.E. Embedded Systems (Semester III)											
735401	Embedded Project Development Laboratory	0	0	4	2	0	80	0	20	100	54
735402	Digital Signal Processor Architecture and Applications (Major Elective IV)	4	0	2	5	70	30	30	20	150	54
735403	Cortex Processor Architecture and Programming(Major Elective IV)	4	0	2	5	70	30	30	20	150	54
730001	Seminar	0	0	4	2	0	0	0	100	100	54

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				
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	54
730003	Dissertation Phase-I	0	0	18	9	0	80	0	20	100	54