

GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University		Mid Sem Test	Internal Assessment Marks	Total Mark	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	60	10	20	10	100	1
730103	Major Elective IV-Soft Computing	4	0	2	5	60	10	20	10	100	1
730104	Major Elective IV-Software Engineering Methodology	4	0	2	5	60	10	20	10	100	1
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	10	20	10	100	2
730203	Major Elective IV-Real Time Systems	4	0	2	5	60	10	20	10	100	2
730204	Major Elective IV-Embedded Systems	4	0	2	5	60	10	20	10	100	2
730205	Major Elective IV-Fuzzy Logic and Neural Networks	4	0	2	5	60	10	20	10	100	2
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	3
730301	Major Elective IV-Quantitative Feedback Theory	4	0	2	5	60	0	20	20	100	3
730302	Major Elective IV-Electronics Systems Design		4	0	2	5	10	20	10	100	3
730303	Major Elective IV-VLSI Design	4	0	2	5	0	80	0	20	100	3
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	10	20	10	100	4
730403	Major Elective IV -Optimization Techniques	4	0	2	5	60	10	20	10	100	4
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	60	10	20	10	100	4
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	60	10	20	10	100	4
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	60	10	20	10	100	4
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	10	20	10	100	5
730403	Major Elective IV -Optimization Techniques	4	0	2	5	60	10	20	10	100	5
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	60	10	20	10	100	5
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	60	10	20	10	100	5
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	60	10	20	10	100	5
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	0	0	4	2	0	0	0	100	100	5
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	60	10	20	10	100	6
730403	Major Elective IV -Optimization Techniques	4	0	2	5	60	10	20	10	100	6
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	60	10	20	10	100	6
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	60	10	20	10	100	6
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	60	10	20	10	100	6
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	7
730702	Major Elective - IV -Application of Artificial Intelligence to Power	4	0	2	5	60	0	20	20	100	7
730703	Major Elective - IV -Intelligent Control	4	0	2	5	60	0	20	20	100	7
730704	Major Elective - IV -Advanced Electrical Drives	4	0	2	5	60	0	20	20	100	7
730705	Major Elective - IV -Data Communication & Networking	4	0	2	5	60	0	20	20	100	7
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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)											
730801	Engineering Optimization	2	0	0	2	60	0	20	20	100	8
730802	Major Elective - IV - Artificial Intelligence	4	--	2	5	60	10	20	10	100	8
730803	Major Elective - IV - Soft Computing Methods	5	--	2	5	60	0	20	20	100	8
730804	Major Elective - IV - Design of Material Handling Equipments	6	--	2	5	60	0	20	20	100	8
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	9
730902	Major Elective - IV - Fracture Mechanics	4	2	0	5	60	10	20	10	100	9
730903	Major Elective - IV - Product Design	4	2	0	5	60	10	20	10	100	9
730904	Major Elective - IV - Design of Material Handling Equipments	4	2	0	5	60	10	20	10	100	9
730905	Major Elective - IV - Gear Design	4	2	0	5	60	10	20	10	100	9
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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 ENGG.) (Semester- III)											
731001	Low Temperature Measurement and Instrumentation	2	0	0	2	60	0	20	20	100	10
731002	Major Elective - IV - Advanced Cryo Coolers	4	0	2	5	60	10	20	10	100	10
731003	Major Elective - IV - Superconductivity and Low Temperature Physics	4	0	2	5	60	10	20	10	100	10
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	0	0	4	2	0	0	0	100	100	10
730002	Presentation of Literature Review	--	--	--	2	0	0	0	100	100	10
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	60	0	20	20	100	11
731102	Major Elective - IV - Heat transfer equipments in Automobile	3	2	0	4	60	10	20	10	100	11
731103	Major Elective - IV - Automotive Aerodynamics & Safety	3	2	0	4	60	10	20	10	100	11
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	12
731202	Major Elective - IV - Water Use Management	4	2	-	5	60	10	20	10	100	12
731203	Major Elective - IV - Costal Engineering	4	2	-	5	60	10	20	10	100	12
731204	Major Elective - IV - Flood Management	4	2	-	5	60	10	20	10	100	12
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	10	20	10	100	13
731303	Major Elective - IV - Traffic Flow Theories and Simulation	4	0	2	5	60	10	20	10	100	13
731304	Major Elective - IV - Mode Choice Modeling and Trip Assignment Techniques	4	0	2	5	60	10	20	10	100	13
731305	Major Elective - IV - Pavement Management System	4	0	2	5	60	10	20	10	100	13
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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. Construction Engineering & Management (Semester - III)											
731401	Personnel Management	2	0	0	2	60	0	20	20	100	14
731402	Major Elective IV - Operation research in construction	4	0	2	5	60	10	20	10	100	14
731403	Major Elective IV - Repair, Retrofitting & Rehabilitation	4	0	2	5	60	10	20	10	100	14
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	15
731502	Major Elective IV - International Codes based Design of Reinforced	4	0	2	5	60	0	20	20	100	15
731503	Major Elective IV - Structural Masonry	4	0	2	5	60	0	20	20	100	15
731504	Major Elective IV - Plates and Shells	4	0	2	5	60	10	20	10	100	15
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	16
731602	Major Elective IV - Computer Aided Product and Process Design	4	0	2	5	60	10	20	10	100	16
731603	Major Elective IV - Polymer Structure & Property Prediction	4	0	2	5	60	10	20	10	100	16
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	0	0	4	2	0	0	0	100	100	16
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

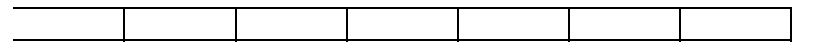
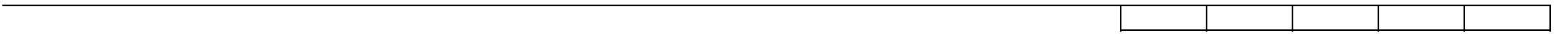
Branch Code : 17 M.E. Environmental Engineering (Semester - III)											
730004	Entrepreneurship Development	2	0	0	2	60	0	20	20	100	17
731701	Major Elective IV - Design Of Water and Waste water System	4	0	2	5	60	10	20	10	100	17
731702	Major Elective IV - Membrane Processes in water and waste water	4	0	2	5	60	10	20	10	100	
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	18
731802	Major Elective IV - Preventive Environmental Management	4	0	2	5	60	10	20	10	100	18
731803	Major Elective IV - Climate Change	4	0	2	5	60	10	20	10	100	18
731804	Major Elective IV - Industrial Hygiene & Safety	4	0	2	5	60	10	20	10	100	18
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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. Transportation System Engineering (Semester - III)											
731901	Transportation Project Work	0	0	4	2	60	0	20	20	100	19
731902	Major Elective IV - Transportation Economics and Project Evaluation	4	0	2	5	60	10	20	10	100	19
731903	Major Elective IV -Highway Safety Audits	4	0	2	5	60	10	20	10	100	19
731904	Major Elective IV - Intersection Design and Analysis	4	0	2	5	60	10	20	10	100	19
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	0	0	4	2	0	0	0	100	100	19
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	60	0	20	20	100	20
732002	Major Elective IV - Design Of Earthquake Resistant Structures	4	0	2	5	60	10	20	10	100	20
732003	Major Elective IV - Soil Structure Interaction	4	0	2	5	60	10	20	10	100	20
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	60	0	20	20	100	21
732101	Major Elective IV -Advanced Internal Combustion Engine	4	0	2	5	60	10	20	10	100	21
732102	Major Elective IV - Cryogenic Engineering	4	0	2	5	60	10	20	10	100	21
732103	Major Elective IV - Economics & Management of Thermal Systems	4	0	2	5	60	10	20	10	100	21
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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	
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	60	10	20	10	100	22
730403	Major Elective IV -Optimization Techniques	4	0	2	5	60	10	20	10	100	22
730404	Major Elective IV -Applied Linear Algebra in Engineering	4	0	2	5	60	10	20	10	100	22
730405	Major Elective IV -Adaptive signal Processing	4	0	2	5	60	10	20	10	100	22
730406	Major Elective IV-Peripheral System Design & Interfacing	4	0	2	5	60	10	20	10	100	22
730001	Seminar (Any Contemporary Topic; Other than Dissertation Topic)	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

Note: Work load of 2 hrs/week to be included in time table of PG teachers to guide 2 PG students who are not working in industry for thesis.

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