

GUJARAT TECHNOLOGICAL UNIVERSITY
BE 7th Semester Exam Scheme & Subject Code
EVALUATION SCHEME

University Exam		University Exam		Continuous Evaluation		Practical (I)	
MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
70	23	X	50% of X	20	8	10	4
				30	12	X	50% of X

NOTE :

X = Marks of the Particular Subject.

Continuous Evaluation(M) 20/8 and Practical (I) 10/4 scheme apply up to April 2009

Continuous Evaluation(M) 30/12 and Practical X/ 50% of X scheme apply from April 2009 onward.

University Exam (Practical) (E) Component is applicable only in 7th & 8th Semester.

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170101	Aircraft Design - 1	4	0	2	6	70	30	30	20	150	1
170102	Theory of Heat Transfer	4	0	2	6	70	30	30	20	150	1
170103	Mechanics of Composite Materials	4	0	0	4	70	0	30	50	150	1
170104	Rocket & Missile Configurations Design	4	0	0	4	70	0	30	50	150	1
170105	Advanced Avionics (Department Elective-I)	4	0	2	6	70	30	30	20	150	1
170106	Viscous and Boundary Layer Theory(Department Elective-I)	4	0	2	6	70	30	30	20	150	1
170001	Project - I	0	0	4	4	0	100	0	50	150	1
	TOTAL	20	0	10	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170201	Automobile Air Conditioning System	3	0	1	4	70	30	30	20	150	2
170202	Automobile System Design	4	0	2	6	70	30	30	20	150	2
170203	Vehicle Dynamics	4	0	1	5	70	30	30	20	150	2
170204	Automobile Mechanical Measurements	3	0	2	5	70	30	30	20	150	2
170205	Alternative Fuels & Engines (Department Elective-I)	4	0	2	6	70	30	30	20	150	2
170206	Two & Three Wheeler Technology (Department Elective-I)	4	0	2	6	70	30	30	20	150	2
170001	Project - I	0	0	4	4	0	100	0	50	150	2
	TOTAL	18	0	12	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170301	Biomechanics	3	0	2	5	70	30	30	20	150	3
170302	Physiological System Modelling	3	0	2	5	70	30	30	20	150	3
170303	Medical Imaging Technology	3	0	2	5	70	30	30	20	150	3
170304	Hospital Management & Clinical Technology	3	0	2	5	70	30	30	20	150	3
170305	Intellectual Property Rights and Bioethics (Department Elective-I)	4	0	2	6	70	30	30	20	150	3
170306	Robotics and Artificial Intelligence (Department Elective-I)	4	0	2	6	70	30	30	20	150	3
170307	Image Processing (Department Elective-I)	4	0	2	6	70	30	30	20	150	3
170001	Project - I	0	0	4	4	0	100	0	50	150	3
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170401	Enzymes and Proteins	4	0	3	7	70	30	30	20	150	4
170402	Agricultural and Food Biotechnology	3	0	3	6	70	30	30	20	150	4
170403	Bioprocess Plant Design	4	0	2	6	70	30	30	20	150	4
170404	Bioprocess Engineering I	3	0	0	3	70	0	30	50	150	4
170405	Genomics and Proteomics (Department Elective-I)	3	0	2	5	70	30	30	20	150	4
170406	Bioinformatics (Department Elective-I)	3	0	2	5	70	30	30	20	150	4
170001	Project - I	0	0	4	4	0	100	0	50	150	4
	TOTAL	17	0	14	31						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170501	Chemical Reaction Engineering-	3	0	3	6	70	30	30	20	150	5
170502	Process Equipment Design-II	3	0	3	6	70	30	30	20	150	5
170503	Plant Design & Project Engineering	3	0	0	3	70	0	30	50	150	5
170504	New Separation Techniques	3	0	2	5	70	30	30	20	150	5
170505	Energy Technology (Department Elective-I)	4	0	2	6	70	30	30	20	150	5
170506	Biochemical Engineering (Department Elective-I)	4	0	2	6	70	30	30	20	150	5
170001	Project - I	0	0	4	4	0	100	0	50	150	5
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170601	Construction management and Equipments	4	2	0	6	70	30	30	20	150	6
170602	Irrigation Engineering	4	2	0	6	70	30	30	20	150	6

170603	Structural Design-I	4	4	0	8	70	30	30	20	150	6
170604	Urban Transportation System (Department Elective-I)	4	2	0	6	70	30	30	20	150	6
170605	Advanced Structural Analysis (Department Elective-I)	4	2	0	6	70	30	30	20	150	6
170606	Application of Geoinformatics in Civil Engineering (Department Elective-I)	4	2	0	6	70	30	30	20	150	6
170001	Project - I	0	0	4	4	0	100	0	50	150	6
	TOTAL	16	10	4	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170701	Compiler Design	3	0	2	5	70	30	30	20	150	7
170702	Mobile Computing (Valid from Aug 2011 to May 2012)	3	0	2	5	70	30	30	20	150	7
170702N	Wireless Communication & Mobile Programming (w.e.f June 2012)	3	0	2	5	70	30	30	20	150	7
170703	Advance Java Technology	3	0	2	5	70	30	30	20	150	7
170704	Advance Computing	3	0	2	5	70	30	30	20	150	7
170705	Embedded Technology (Department Elective - I)	4	0	2	6	70	30	30	20	150	7
170706	Computer Signal Processing (Department Elective - I)	4	0	2	6	70	30	30	20	150	7
170707	Advance .Net Technology (Department Elective - I)	4	0	2	6	70	30	30	20	150	7
170708	Web Data Management (Department Elective-1)	4	0	2	6	70	30	30	20	150	7
170001	Project - I	0	0	4	4	0	100	0	50	150	7
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170801	Power Electronics and Industrial Drives	3	0	2	5	70	30	30	20	150	8
170802	Industrial Automation	3	0	2	5	70	30	30	20	150	8
170803	Electrical and Electronics Measuring Instruments	3	0	2	5	70	30	30	20	150	8
170804	Discrete Time Signal	3	0	2	5	70	30	30	20	150	8
170805	Embedded Systems and Applications (Department Elective - I)	4	0	2	6	70	30	30	20	150	8
170806	Digital Control System (Department Elective - I)	4	0	2	6	70	30	30	20	150	8
170807	Power System Analysis (Department Elective - I)	4	0	2	6	70	30	30	20	150	8
170001	Project - I	0	0	4	4	0	100	0	50	150	8
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170901	Inter Connected Power System	3	0	2	5	70	30	30	20	150	9
170902	Electrical Machine Design-I	3	0	2	5	70	30	30	20	150	9
170903	Power System Protection	3	0	2	5	70	30	30	20	150	9
170904	Industrial Instrumentation	3	0	2	5	70	30	30	20	150	9
170905	Advanced Power System - I (Department Elective - I)	4	0	2	6	70	30	30	20	150	9
170906	Advanced Power Electronics - I (Department Elective - I)	4	0	2	6	70	30	30	20	150	9
170907	Advanced Microcontrollers & Embedded System (Department Elective - I)	4	0	2	6	70	30	30	20	150	9
170001	Project - I	0	0	4	4	0	100	0	50	150	9
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171001	Microwave Engineering	3	0	2	5	70	30	30	20	150	10
171002	Power Electronics	2	0	2	4	70	30	30	20	150	10
171003	Digital Signal Processing	4	0	2	6	70	30	30	20	150	10
171004	Wireless Communication	4	0	2	6	70	30	30	20	150	10
171005	Embedded Systems (Department Elective - I)	3	0	2	5	70	30	30	20	150	10
171006	Biomedical Instrumentation (Department Elective - I)	3	0	2	5	70	30	30	20	150	10
171007	Satellite Communication (Department Elective - I)	3	0	2	5	70	30	30	20	150	10
170001	Project - I	0	0	4	4	0	100	0	50	150	10
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171001	Microwave Engineering	3	0	2	5	70	30	30	20	150	11
171002	Power Electronics	2	0	2	4	70	30	30	20	150	11
171003	Digital Signal Processing	4	0	2	6	70	30	30	20	150	11
171004	Wireless Communication	4	0	2	6	70	30	30	20	150	11
171005	Embedded Systems (Department Elective - I)	3	0	2	5	70	30	30	20	150	11
171006	Biomedical Instrumentation (Department Elective - I)	3	0	2	5	70	30	30	20	150	11
171007	Satellite Communication (Department Elective - I)	3	0	2	5	70	30	30	20	150	11
170001	Project - I	0	0	4	4	0	100	0	50	150	11
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171001	Microwave Engineering	3	0	2	5	70	30	30	20	150	12
171002	Power Electronics	2	0	2	4	70	30	30	20	150	12
171003	Digital Signal Processing	4	0	2	6	70	30	30	20	150	12
171004	Wireless Communication	4	0	2	6	70	30	30	20	150	12
171005	Embedded Systems (Department Elective - I)	3	0	2	5	70	30	30	20	150	12
171006	Biomedical Instrumentation (Department Elective - I)	3	0	2	5	70	30	30	20	150	12
171007	Satellite Communication (Department Elective - I)	3	0	2	5	70	30	30	20	150	12
170001	Project - I	0	0	4	4	0	100	0	50	150	12
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171301	Advanced Wastewater Treatment Technologies	4	2	0	6	70	30	30	20	150	13
171302	Air Pollution Control and Management	4	2	0	6	70	30	30	20	150	13
171303	Industrial Water Pollution and Control	4	0	4	8	70	30	30	20	150	13
171304	Cleaner Production and waste Utilization (Department Elective - I)	4	2	0	6	70	30	30	20	150	13
171305	Environmental Monitoring and data management (Department Elective - I)	4	2	0	6	70	30	30	20	150	13
170001	Project - I	0	0	4	4	0	100	0	50	150	13
	TOTAL	16	6	8	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171401	Food Packaging Technology	4	0	2	6	70	30	30	20	150	14
171402	Food Standards and Quality Assurance	4	0	2	6	70	30	30	20	150	14
171403	Entrepreneurship and Food Plant Management	4	0	0	4	70	0	30	50	150	14
171404	Bakery and Confectionary Technology	3	0	2	5	70	30	30	20	150	14
171405	By-product Utilization and Management (Department Elective - I)	3	0	2	5	70	30	30	20	150	14
171406	Environmental Engineering and Renewable Energy (Department Elective - I)	3	0	2	5	70	30	30	20	150	14
171407	Controlled and Modified Atmosphere Storage Engineering (Department Elective - I)	3	0	2	5	70	30	30	20	150	14
170001	Project - I	0	0	4	4	0	100	0	50	150	14
TOTAL		18	0	12	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171501	Operations Planning & Control	4	0	2	6	70	30	30	20	150	15
171502	Work System Design	4	0	2	6	70	30	30	20	150	15
171503	Resource Optimization Techniques	4	4	0	8	70	30	30	20	150	15
171504	Industrial Statistics & Quality Management (Department Elective - I)	4	0	2	6	70	30	30	20	150	15
171505	Logistics & Supply chain Management (Department Elective - I)	4	0	2	6	70	30	30	20	150	15
170001	Project - I	0	0	4	4	0	100	0	50	150	15
TOTAL		16	4	10	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170702	Mobile Computing (Valid from Aug 2011 to May 2012)	3	0	2	5	70	30	30	20	150	16
170702N	Wireless Communication & Mobile Programming (wef June 2012)	3	0	2	5	70	30	30	20	150	16
171601	Data warehousing and Data Mining	3	0	2	5	70	30	30	20	150	16
170703	Advance Java Technology	3	0	2	5	70	30	30	20	150	16
171602	Distributed Database Application & System	3	0	2	5	70	30	30	20	150	16
171603	Software Project Management (Department Elective - I)	4	0	2	6	70	30	30	20	150	16
171604	Dot Net Technology (Department Elective - I)	4	0	2	6	70	30	30	20	150	16
171605	Enterprise Resource Planning (Department Elective - I)	4	0	2	6	70	30	30	20	150	16
170708	Web Data Management (Department Elective-1)	4	0	2	6	70	30	30	20	150	16
170001	Project - I	0	0	4	4	0	100	0	50	150	16
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171701	Control System Design	4	0	2	6	70	30	30	20	150	17
171702	Programmable Automation Controller	4	0	2	6	70	30	30	20	150	17
171703	Industrial Data Communication	4	0	0	4	70	0	30	50	150	17
171704	Digital Signals & Systems	4	0	0	4	70	0	30	50	150	17
171705	Instrumentation for Bio Medical Application (Department Elective - I)	4	0	2	6	70	30	30	20	150	17

171706	Instrumentation for Nano technology (Department Elective - I)	4	0	2	6	70	30	30	20	150	17
170001	Project - I	0	0	4	4	0	100	0	50	150	17
TOTAL		20	0	10	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171901	Operation Research	4	2	0	6	70	30	30	20	150	19
171902	Automobile Engineering	3	0	2	5	70	30	30	20	150	19
171903	Computer Integrated Manufacturing	3	0	2	5	70	30	30	20	150	19
171904	Product Design and Value Engineering	3	2	0	5	70	30	30	20	150	19
171905	Industrial Tribology (Department Elective - I)	3	2	0	5	70	30	30	20	150	19
171906	Quality and Reliability Engineering (Department Elective - I)	3	2	0	5	70	30	30	20	150	19
171907	Energy Conservation and Management(Department Elective - I)	3	2	0	5	70	30	30	20	150	19
171908	Software Engineering (Department Elective - I)	3	2	0	5	70	30	30	20	150	19
170001	Project - I	0	0	4	4	0	100	0	50	150	19
TOTAL		16	6	8	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172001	Microcontrollers and Embedded Systems	3	0	2	5	70	30	30	20	150	20
172002	Automated Manufacturing - I	3	0	2	5	70	30	30	20	150	20
172003	Manufacturing Technology - II	3	0	2	5	70	30	30	20	150	20
172004	Production Optimization Techniques	3	2	0	5	70	30	30	20	150	20

172005	Robotics (Department Elective - I)	4	0	2	6	70	30	30	20	150	20
172006	Computer Aided Design for Mechatronics (Department Elective - I)	4	0	2	6	70	30	30	20	150	20
172007	Modern Control Systems (Department Elective - I)	4	0	2	6	70	30	30	20	150	20
170001	Project - I	0	0	4	4	0	100	0	50	150	20
TOTAL		16	2	12	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172101	Physical Metallurgy - II	3	1	2	6	70	30	30	20	150	21
172102	Non Destructive Testing	3	1	2	6	70	30	30	20	150	21
172103	Metal Joining Processes	3	1	2	6	70	30	30	20	150	21
172104	Alloy Design	3	1	0	4	70	30	30	20	150	21
172105	Process Modeling (Department Elective - I)	3	1	0	4	70	30	30	20	150	21
172106	Advance Ferrous Metallurgy (Department Elective - I)	3	1	0	4	70	30	30	20	150	21
172107	Surface Coating Technology (Department Elective - I)	3	1	0	4	70	30	30	20	150	21
170001	Project - I	0	0	4	4	0	100	0	50	150	21
TOTAL		15	5	10	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172201	Mine Planning	4	0	2	6	70	30	30	20	150	22
172202	Mine Legislation	4	0	0	4	70	0	30	50	150	22
172203	Environment Management in Mine	3	0	2	5	70	30	30	20	150	22
172204	Mineral Processing	3	0	2	5	70	30	30	20	150	22
172205	Rock Slope Engineering (Department Elective - I)	4	0	2	6	70	30	30	20	150	22
172206	Rock Engineering (Department Elective - I)	4	0	2	6	70	30	30	20	150	22

172207	Rock Fragmentation (Department Elective - I)	4	0	2	6	70	30	30	20	150	22
170001	Project - I	0	0	4	4	0	100	0	50	150	22
	TOTAL	18	0	12	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172301	Advanced Plastics Processing	3	0	2	5	70	30	30	20	150	23
172302	Plastic Mould and Die Design -	3	0	2	5	70	30	30	20	150	23
172303	Medical Plastics	3	0	2	5	70	30	30	20	150	23
172304	Manufacturing of Thermoplastic Materials	3	0	2	5	70	30	30	20	150	23
172305	Plastics Testing & Instrumental Analysis (Department Elective - I)	4	0	2	6	70	30	30	20	150	23
172306	Adhesives and Sealants(Department Elective -	4	0	2	6	70	30	30	20	150	23
170001	Project - I	0	0	4	4	0	100	0	50	150	23
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172401	Power Electronics Systems Modelling	4	0	2	6	70	30	30	20	150	24
172402	Industrial Drives and Control -	4	0	2	6	70	30	30	20	150	24
172403	Power Processing Circuits - II	4	0	0	4	70	0	30	50	150	24
172404	Power Electronics Practice - III	0	0	4	4	0	80	0	20	100	24
172405	Industrial Communication Systems (Department Elective -	4	0	2	6	70	30	30	20	150	24
172406	Power Electronics Design & Control (Department Elective -	4	0	2	6	70	30	30	20	150	24
172407	Embedded Systems for Power Electronics (Department Elective - I)	4	0	2	6	70	30	30	20	150	24
170001	Project - I	0	0	4	4	0	100	0	50	150	24
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172501	Computer Aided Manufacturing	4	0	2	6	70	30	30	20	150	25
172502	Productivity Improvement Methods	3	0	2	5	70	30	30	20	150	25
172503	Optimization Methods	4	2	0	6	70	30	30	20	150	25
172504	Quality Management & Reliability Engineering	3	1	0	4	70	30	30	20	150	25
172505	Supply Chain Management (Department Elective - I)	3	2	0	5	70	30	30	20	150	25
172506	Flexible Manufacturing Systems (Department Elective - I)	3	2	0	5	70	30	30	20	150	25
170001	Project - I	0	0	4	4	0	100	0	50	150	25
	TOTAL	17	5	8	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172601	Rubber Equipment Design -II	3	0	3	6	70	30	30	20	150	26
172602	Polymers Kinetics	3	0	3	6	70	30	30	20	150	26
172603	Rubber Plant & Process Engineering	3	0	0	3	70	0	30	50	150	26
172604	Rubber Products Manufacturing	3	0	2	5	70	30	30	20	150	26
172605	Rubber Adhesion & Adhesion Science (Department Elective - I)	4	0	2	6	70	30	30	20	150	26
172606	Rubber Recycling & Waste Management (Department Elective - I)	4	0	2	6	70	30	30	20	150	26
170001	Project - I	0	0	4	4	0	100	0	50	150	26
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172801	Technology of Printing – II	3	0	3	6	70	30	30	20	150	28
172802	Computer Aided Designing & Computer Colour Matching	4	0	3	7	70	30	30	20	150	28
172803	Technology of Finishing – II	3	0	0	3	70	0	30	50	150	28
172804	Garment Processing	2	0	2	4	70	30	30	20	150	28
172805	Ecological Aspects in Textile Processing (Department Elective - I)	4	0	2	6	70	30	30	20	150	28
172806	Instrumental Analysis in Textile Processing (Department Elective - I)	4	0	2	6	70	30	30	20	150	28
170001	Project - I	0	0	4	4	0	100	0	50	150	28
	TOTAL	16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
172901	Modern Spinning Technology	3	0	2	5	70	30	30	20	150	29
172902	Modern Weaving Technology	3	0	2	5	70	30	30	20	150	29
172903	Production Planning & Maintenance	3	0	0	3	70	0	30	50	150	29
172904	Process & Quality Control in Spinning	3	0	0	3	70	0	30	50	150	29
172905	Fibre Science & Elements of Textile Structure	4	0	0	4	70	0	30	50	150	29
172906	Knitting and Garment Technology (Department Elective - I)	4	0	2	6	70	30	30	20	150	29
172907	Advanced Physical Testing (Department Elective - I)	4	0	2	6	70	30	30	20	150	29
170001	Project - I	0	0	4	4	0	100	0	50	150	29
	TOTAL	20	0	10	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170701	Compiler Design	3	0	2	5	70	30	30	20	150	31
170702	Mobile Computing (Valid from Aug 2011 to May 2012)	3	0	2	5	70	30	30	20	150	31
170702N	Wireless Communication & Mobile Programming (w.e.f June 2012)	3	0	2	5	70	30	30	20	150	31
170703	Advance Java Technology	3	0	2	5	70	30	30	20	150	31
173101	Soft Computing	3	0	2	5	70	30	30	20	150	31
173102	Software Testing and Quality (Department Elective - I)	4	0	2	6	70	30	30	20	150	31
173103	E-commerce & E-Business (Department Elective - I)	4	0	2	6	70	30	30	20	150	31
171605	Enterprise Resource Planning (Department Elective - I)	4	0	2	6	70	30	30	20	150	31
170708	Web Data Management (Department Elective-1)	4	0	2	6	70	30	30	20	150	31
170001	Project - I	0	0	4	4	0	100	0	50	150	31
TOTAL		16	0	14	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
170001	Project-I	0	0	4	4	0	100	0	50	150	32
173201	Microwave and Satellite Communication	4	0	2	6	70	30	30	20	150	32
173202	Advance Computing	4	0	2	6	70	30	30	20	150	32
173203	Microprocessor and Microcontroller	4	0	2	6	70	30	30	20	150	32
173204	Telecommunication Engineering	3	0	0	3	70	—	30	50	150	32
173205	Design & Analysis of Algorithm/ Computer Algorithm (Elective)	3	0	2	5	70	30	30	20	150	32

173206	Audio and Video Engineering (Elective)	3	0	2	5	70	30	30	20	150	32
TOTAL		18	0	12	30						

Semester VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
173401	Total Quality Management	3	0	0	3	70	0	30	50	150	34
173402	Industrial Robotics	4	0	2	6	70	30	30	20	150	34
173403	Computer Integrated Manufacturing	4	0	2	6	70	30	30	20	150	34
173404	Design for Manufacture, Assembly and Environment	3	0	2	5	70	30	30	20	150	34
173405	Operations Research (Department Elective – I)	3	1	0	4	70	0	30	50	150	34
173406	Technical Seminar	0	0	2	2	0	100	0	50	150	34
170001	Project – I	0	0	4	4	0	100	0	50	150	34
TOTAL		17	1	12	30						

Semester - VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
173501	Chemical Process Technology	4	0	0	4	70	0	30	50	150	35
173502	Safety & Hygiene in Chemical Industries	4	0	0	4	70	0	30	50	150	35
173503	Enviornmental Management	4	0	3	7	70	30	30	20	150	35
173504	Liquid Effluent Control - II	4	0	3	7	70	30	30	20	150	35
173505	Corrosion & its Control in Industries (Department Elective - I)	3	1	0	4	70	30	30	20	150	35
173506	Environmental Aspects of Petroleum Refining(Department Elective - I)	3	1	0	4	70	30	30	20	150	35
170001	Project - I	0	0	4	4	0	100	0	50	150	35
Total		19	1	10	30						

Semester - VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
173501	Chemical Process Technology	4	0	0	4	70	0	30	50	150	36
173502	Safety & Hygiene in Chemical Industries	4	0	0	4	70	0	30	50	150	36
173601	Basics of Catalysis	3	1	0	4	70	30	30	20	150	36
173602	Process Technology of Drugs & Intermediates (Department Elective-VII)	4	0	3	7	70	30	30	20	150	36
173603	Evaluation & Testing of Polymers & Rubbers(Department Elective-	4	0	3	7	70	30	30	20	150	36
173604	Technology of Whitewares (Department Elective-VII)	4	0	3	7	70	30	30	20	150	36
173605	Environmental Aspects of Dyes & Pigment Industry (Department Elective-VII)	4	0	3	7	70	30	30	20	150	36
173606	Medicinal Chemistry - II & Technology of Sterile products (Department Elective-VIII)	4	0	3	7	70	30	30	20	150	36
173607	Product Design concepts : Structures & Additives (Department Elective-VIII)	4	0	3	7	70	30	30	20	150	36
173608	Special Topics in Glass & Ceramics - I (Department Elective-VIII)	4	0	3	7	70	30	30	20	150	36
173609	Analytical Methods for Dyestuff & Pigment Industry (Department Elective-	4	0	3	7	70	30	30	20	150	36
170001	Project - I	0	0	4	4	0	100	0	50	150	36
		19	1	10	30						

Semester - VII

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
171301	Advanced Wastewater Treatment Technologies	4	2	0	6	70	30	30	20	150	37
171302	Air Pollution Control and Management	4	2	0	6	70	30	30	20	150	37
173701	Industrial waste management	4	2	2	8	70	30	30	20	150	37
171304	Cleaner Production and waste Utilization(Department Elective - I)	4	2	0	6	70	30	30	20	150	37
173702	Environmental Sanitation (Department Elective - I)	4	2	0	6	70	30	30	20	150	37
170001	Project - I	0	0	4	4	0	100	0	50	150	37
		16	8	6	30						