GUJARAT TECHNOLOGICAL UNIVERSITY
BE 6th Semester Exam Scheme & Subject Code
EVALUATION SCHEME

University		University		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 VI

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							
160101	Aerodynamics-II	4	1	0	5	70	–	30	50	150	1
160102	Fundamentals of Jet Propulsion	4	1	0	5	70	–	30	50	150	1
160103	Vibration and Noise Control	3	0	2	5	70	–	30	50	150	1
160104	Basic Control Theory	3	0	2	5	70	–	30	50	150	1
160105	Computational Fluid Dynamics - II	3	0	2	5	70	–	30	50	150	1
160106	Avionics	3	0	2	5	70	–	30	50	150	1
	TOTAL	**20**	**2**	**8**	**30**						

Semester VI

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							
160201	Automobile Component Design	4	0	2	6	70	–	30	50	150	2
160202	Automobile Heat Transfer	4	0	2	6	70	–	30	50	150	2
160203	Transport Management and Laws	4	0	0	4	70	–	30	50	150	2
160204	Vehicle Maintenance and Garage Practice	2	0	4	6	70	–	30	50	150	2
160205	Automobile Chassis and Body Engineering	3	0	0	3	70	–	30	50	150	2
160206	Total Quality Management	3	1	0	4	70	–	30	50	150	2
	TOTAL	**20**	**1**	**8**	**29**						

Semester VI

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							
160301	Diagnostic Instrumentation	4	0	2	6	70	–	30	50	150	3
160302	Analytical & Optical Instrumentation	4	0	2	6	70	–	30	50	150	3
160303	Therapeutic Instrumentation	4	0	2	6	70	–	30	50	150	3
160304	Bio-Medical Control Theory	4	0	0	4	70	–	30	50	150	3
160305	Bio-Medical Signal Processing	4	0	2	6	70	–	30	50	150	3
160306	Seminar	0	0	2	2	0	–	0	100	100	3
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							

160401	Advanced Molecular Biology-II	3	0	3	6	70	–	30	50	150	4
160402	Fundamentals of Industrial Biotechnology	3	0	2	5	70	–	30	50	150	4
160403	Environmental Biotechnology	3	0	2	5	70	–	30	50	150	4
160404	Instrumentation and Process Control	4	0	3	7	70	–	30	50	150	4
160405	Principles of Process Engineering-III	3	0	3	6	70	–	30	50	150	4
160406	Bioethics, Patents and IPR	2	0	0	2	70	–	30	50	150	4
	TOTAL	**18**	**0**	**13**	**31**						

Semester VI

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							
160501	Mass Transfer Operation –II	3	0	3	6	70	–	30	50	150	5
160502	Chemical Process Industries-II	3	0	3	6	70	–	30	50	150	5
160503	Process Equipment Design-I	4	0	3	7	70	–	30	50	150	5
160504	Pollution Control & Safety Management	3	0	0	3	70	–	30	50	150	5
160505	Computer Aided Process Synthesis	4	0	4	8	70	–	30	50	150	5
	TOTAL	**17**	**0**	**13**	**30**						

Semester VI

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							
160601	Advanced Construction Technology	3	1	0	4	70	–	30	50	150	6
160602	Applied Fluid Mechanics	3	0	2	5	70	–	30	50	150	6
160603	Railway , Bridge & Tunnel Engineering	3	1	0	4	70	–	30	50	150	6
160604	Water & Waste Water Engineering	3	0	2	5	70	–	30	50	150	6
160605	Earthquake Engineering	4	0	2	6	70	–	30	50	150	6
160606	Geotechnical Engineering - II	4	0	2	6	70	–	30	50	150	6

	TOTAL	**20**	**2**	**8**	**30**						

Semester VI

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							
160701	Software Engineering	4	0	2	6	70	–	30	50	150	7
160702	Information Security	4	0	2	6	70	–	30	50	150	7
160703	Computer Graphics	4	0	2	6	70	–	30	50	150	7
160704	Theory Of Computation	3	0	0	3	70	–	30	50	150	7
160705	Web Application Development	3	0	2	5	70	–	30	50	150	7
160706	System Programming	2	0	2	4	70	–	30	50	150	7
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
160801	Integrated Circuits & Application	3	0	2	5	70	–	30	50	150	8
160802	Electronic Communication	4	0	2	6	70	–	30	50	150	8
160803	Switch Gear & Protection	4	0	2	6	70	–	30	50	150	8
160804	Electrical Machine Design	4	0	2	6	70	–	30	50	150	8
160805	Advanced Microprocessors	3	0	2	5	70	–	30	50	150	8
160806	Mini-Project	0	0	2	2	0	–	0	100	100	8
	TOTAL	**18**	**0**	**12**	**30**						

Semester VI

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							
160901	Electrical Machine - III	3	0	2	5	70	–	30	50	150	9
160902	Power Electronics - II	4	0	2	6	70	–	30	50	150	9
160903	Microcontroller	3	0	2	5	70	–	30	50	150	9
160904	High Voltage Engineering	4	0	2	6	70	–	30	50	150	9
160905	Electrical & Electronic Measurement	3	0	2	5	70	–	30	50	150	9

160906	Theory of Electromagnetics	3	0	0	3	70	–	30	50	150	9
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
161001	Digital Communication	4	0	2	6	70	–	30	50	150	10
161002	Audio - Video Systems	4	0	2	6	70	–	30	50	150	10
161003	Antenna & Wave Propogation	4	0	2	6	70	–	30	50	150	10
161004	VLSI Technology and Design	4	0	2	6	70	–	30	50	150	10
161005	Optical Communication	4	0	2	6	70	–	30	50	150	10
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
161001	Digital Communication	4	0	2	6	70	–	30	50	150	11
161002	Audio - Video Systems	4	0	2	6	70	–	30	50	150	11
161003	Antenna & Wave Propogation	4	0	2	6	70	–	30	50	150	11
161004	VLSI Technology and Design	4	0	2	6	70	–	30	50	150	11
161005	Optical Communication	4	0	2	6	70	–	30	50	150	11
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
161001	Digital Communication	4	0	2	6	70	–	30	50	150	12
161002	Audio - Video Systems	4	0	2	6	70	–	30	50	150	12
161003	Antenna & Wave Propogation	4	0	2	6	70	–	30	50	150	12

161004	VLSI Technology and Design	4	0	2	6	70	–	30	50	150	12
161005	Optical Communication	4	0	2	6	70	–	30	50	150	12
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
161301	Municipal Engineering	3	4	0	7	70	–	30	50	150	13
161302	Fundamentals of Air Pollution	3	2	0	5	70	–	30	50	150	13
161303	Estimation, Specification & Project Management	3	4	0	7	70	–	30	50	150	13
161304	Biological Process for Wastewater Treatment	4	2	0	6	70	–	30	50	150	13
161305	Occupational Health & Safety	3	2	0	5	70	–	30	50	150	13
	Seminar (on Current Topic)	0	0	0	0	0	0	0	0	0	13
	TOTAL	**16**	**14**	**0**	**30**						

Semester VI

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							
161401	Food Process Equipment Design	4	2	0	6	70	–	30	50	150	14
161402	Food Rheology & Sensory Evaluation	3	0	2	5	70	–	30	50	150	14
161403	Food Engineering Operations - II	4	0	2	6	70	–	30	50	150	14
161404	Food Drying & Dehydration	4	0	2	6	70	–	30	50	150	14
161405	Milk & Milk Products Technology	4	0	2	6	70	–	30	50	150	14
	TOTAL	**19**	**2**	**8**	**29**						

Semester VI

		Teaching Scheme(Hours)									

Subject Code	Subject Name	Theory	Tutorial	Practical	Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
161501	Materials Management	4	0	2	6	70	–	30	50	150	15
161502	Product Development & Value Engineering	4	0	2	6	70	–	30	50	150	15
161503	Finance Management & Cost Control	4	2	0	6	70	–	30	50	150	15
161504	Metal Cutting & Advanced manufacturing processes	4	0	2	6	70	–	30	50	150	15
161505	Maintenance & Safety Engg	4	0	2	6	70	–	30	50	150	15
	TOTAL	**20**	**2**	**8**	**30**						

Semester VI

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							
160701	Software Engineering	4	0	2	6	70	–	30	50	150	16
160702	Information Security	4	0	2	6	70	–	30	50	150	16
160703	Computer Graphics	4	0	2	6	70	–	30	50	150	16
161601	Modelling, Simulation and Operations Research	4	0	2	6	70	–	30	50	150	16
161602	Web Technology and Programming	3	0	2	5	70	–	30	50	150	16
	TOTAL	**19**	**0**	**10**	**29**						

Semester VI

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							
161701	Instrumentation System	4	0	2	6	70	–	30	50	150	17
161702	Process Control	4	0	2	6	70	–	30	50	150	17
161703	Control System Components	3	0	0	3	70	–	30	50	150	17
161704	Analog and Digital Communication	3	0	2	5	70	–	30	50	150	17

161705	Instrumentation Measurement - II	4	0	2	6	70	–	30	50	150	17
161706	Practices in Instrumentation and Control	0	0	4	4	0	–	0	100	100	17
	TOTAL	**18**	**0**	**12**	**30**						

Semester VI

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							
161901	Dynamics of Machinery	3	0	2	5	70	–	30	50	150	19
161902	Internal Combustion Engines	3	0	2	5	70	–	30	50	150	19
161903	Computer Aided Design	3	0	2	5	70	–	30	50	150	19
161904	Alternate Energy Sources	3	0	0	3	70	–	30	50	150	19
161905	Control Engineering	3	0	0	3	70	–	30	50	150	19
161906	Heat and Mass Transfer	3	0	2	5	70	–	30	50	150	19
161907	Industrial Engineering	3	0	0	3	70	–	30	50	150	19
	TOTAL	**21**	**0**	**8**	**29**						

Semester VI

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							
162001	Design of Mechanisms - I	4	0	2	6	70	–	30	50	150	20
162002	Micro Processors & Micro Controllers	4	0	2	6	70	–	30	50	150	20
162003	Control of Electric Drives	4	0	2	6	70	–	30	50	150	20
162004	Hydraulic and Pneumatic Systems	4	0	2	6	70	–	30	50	150	20
162005	Electromechanical Measurements & Instruments.	4	0	2	6	70	–	30	50	150	20
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

		Teaching Scheme(Hours)									

Subject Code	Subject Name	Theory	Tutorial	Practical	Credits	University Exam (Theory) (E)	University Exam (Practical) (E)	Continuous Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
162101	Physical Metallurgy - I	4	2	2	8	70	–	30	50	150	21
162102	Steel Making	4	2	0	6	70	–	30	50	150	21
162103	Powder Metallurgy	3	1	2	6	70	–	30	50	150	21
162104	Advanced Materials and Applications	3	1	0	4	70	–	30	50	150	21
162105	Electrometallurgy & Corrosion	3	1	2	6	70	–	30	50	150	21
	TOTAL	**17**	**7**	**6**	**30**						

Semester VI

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							
162201	Economic Geology I	3	0	2	5	70	–	30	50	150	22
162202	Underground Metal Mining	4	0	2	6	70	–	30	50	150	22
162203	Sub-Surface Environment	3	0	2	5	70	–	30	50	150	22
162204	Mine Hazards	4	0	2	6	70	–	30	50	150	22
162205	Mine Surface Environment	4	0	2	6	70	–	30	50	150	22
162206	Computer Application in Mining	2	0	0	2	70	–	30	50	150	22
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
162301	Plastic Extrusion Technologies	3	0	3	6	70	–	30	50	150	23
162302	Plastic Structure, Property & Relationship	3	0	2	5	70	–	30	50	150	23
162303	Plastic Process Instrumentation and Process Control	3	0	3	6	70	–	30	50	150	23
162304	Reaction Engineering & Rheology	3	0	2	5	70	–	30	50	150	23
162305	Additives & Compounding	2	0	2	4	70	–	30	50	150	23

162306	Seminar - II	0	0	4	4	0	–	0	100	100	23
	TOTAL	**14**	**0**	**16**	**30**						

Semester VI

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							
162401	Industrial Instrumentation	3	0	2	5	70	–	30	50	150	24
162402	Microcontrollers for Power Electronics	4	0	2	6	70	–	30	50	150	24
162403	Switch Gear & Fault Analysis	4	0	2	6	70	–	30	50	150	24
162404	Industrial Drives & Control - I	3	0	2	5	70	–	30	50	150	24
162405	Power Processing Circuits - I	4	0	0	4	70	–	30	50	150	24
162406	Power Electronics Practice - II	0	0	4	4	0	–	0	100	100	24
	TOTAL	**18**	**0**	**12**	**30**						

Semester VI

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							
162501	Statistical Methods and Quality Control	4	2	0	6	70	–	30	50	150	25
162502	Welding Technology	4	0	2	6	70	–	30	50	150	25
162503	Metal Forming Processes	3	0	2	5	70	–	30	50	150	25
161903	Computer Aided Design	3	0	2	5	70	–	30	50	150	25
162504	Allied Manufacturing Processes	4	0	2	6	70	–	30	50	150	25
162505	Estimating, Costing & Engineering Economics	2	0	0	2	70	–	30	50	150	25
	TOTAL	**20**	**2**	**8**	**30**						

Semester VI

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							
162601	Rubber Compound & Product Testing	3	0	3	6	70	–	30	50	150	26
162602	Synthetic Rubbers	3	0	4	7	70	–	30	50	150	26

162603	Rubber Equipment Design - I	3	0	3	6	70	–	30	50	150	26
162604	Characterisation of Rubber	3	0	3	6	70	–	30	50	150	26
162605	Thermoplastics Elastomers & Polymer Blends	3	0	2	5	70	–	30	50	150	26
	TOTAL	**15**	**0**	**15**	**30**						

Semester VI

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							
162801	Technology of Dyeing - II	4	0	3	7	70	–	30	50	150	28
162802	Analytical Textile Chemistry - II	3	0	3	6	70	–	30	50	150	28
162803	Chemistry and Applications of Textile Auxiliaries	3	0	0	3	70	–	30	50	150	28
162804	Technology of Printing - I	4	0	3	7	70	–	30	50	150	28
162805	Technology of Finishing - I	4	0	3	7	70	–	30	50	150	28
	TOTAL	**18**	**0**	**12**	**30**						

Semester VI

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							
162901	Statistical Quality Control & Textile Costing	4	0	0	4	70	–	30	50	150	29
162902	Advance Fabric Structure & CAD	5	0	2	7	70	–	30	50	150	29
162903	Physical Testing	4	0	4	8	70	–	30	50	150	29
162904	Technical Textiles -I	5	2	0	7	70	–	30	50	150	29
162905	Energy Conservation & Pollution Control In Textile Industry	4	0	0	4	70	–	30	50	150	29
	TOTAL	**22**	**2**	**6**	**30**						

Semester VI

		Teaching Scheme(Hours)				University	University	Continuous			

Subject Code	Subject Name	Theory	Tutorial	Practical	Credits	Exam (Theory) (E)	Exam (Practical) (E)	Evaluation Process (M)	Practical (I)	Total Marks	Branch Code
160701	Software Engineering	4	0	2	6	70	–	30	50	150	31
160702	Information Security	4	0	2	6	70	–	30	50	150	31
160703	Computer Graphics	4	0	2	6	70	–	30	50	150	31
160704	Theory Of Computation	3	0	0	3	70	–	30	50	150	31
160705	Web Application Development	3	0	2	5	70	–	30	50	150	31
163101	Operating System Design	2	0	2	4	70	–	30	50	150	31
	TOTAL	**20**	**0**	**10**	**30**						

Semester VI

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							
161001	Digital Communication	4	0	2	6	70	–	30	50	150	32
161003	Antenna and Wave Propagation	4	0	2	6	70	–	30	50	150	32
161005	Optical Communication	4	0	2	6	70	–	30	50	150	32
161601	Modelling Simulation and Operation Research	4	0	2	6	70	–	30	50	150	32
161602	Web Technology & Programming	3	0	2	5	70	–	30	50	150	32
	TOTAL	**19**	**0**	**10**	**29**						

Semester - VI

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							
163401	Finite Element Analysis in Manufacturing Engineering	3	0	3	6	70	-	30	50	150	34
163402	Metal Forming Processes	3	0	2	5	70	-	30	50	150	34
163403	Advanced Manufacturing Processes	3	0	3	6	70	-	30	50	150	34

163404	Tool Design	4	0	0	4	70	-	30	50	150	34
163405	Mechatronics	3	0	2	5						
163406	Composite Technology	4	0	0	4	70	-	30	50	150	34
	TOTAL	**20**	**0**	**10**	**30**						

Semester - VI

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							
163501	Economics & Industrial Management	4	0	0	4	70	-	30	50	150	35
163502	Material & Energy Balance Calculations	4	1	0	5	70	-	30	50	150	35
163503	Fluid Flow & Heat Transfer	4	0	3	7	70	-	30	50	150	35
163504	Liquid Effluent Control-I	4	0	3	7	70	-	30	50	150	35
163505	Solid Wastes -Characterization & Treatment	4	0	3	7	70	-	30	50	150	35
	TOTAL	**20**	**1**	**9**	**30**						

Semester - VI

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							
163501	Economics & Industrial Management	4	0	0	4	70	0	30	50	150	36
163502	Material & Energy Balance Calculations	4	1	0	5	70	0	30	50	150	36
163503	Fluid Flow & Heat Transfer	4	0	3	7	70	0	30	50	150	36
163601	Medicinal Chemistry-I (Department Elective-V)	4	0	3	7	70	0	30	50	150	36
163602	Compounding & Processing of Plastics & Rubbers-I (Department Elective-V)	4	0	3	7	70	0	30	50	150	36
163603	Technology of Refractories (Department Elective-V)	4	0	3	7	70	0	30	50	150	36
163604	Technology of Pigments (Department Elective-V)	4	0	3	7	70	0	30	50	150	36

163605	Technology of Solid Dosage Forms & Medicinal Natural Products (Department Elective-VI)	4	0	3	7	70	0	30	50	150	36
163606	Compounding & Processing of Plastics & Rubbers-II (Department Elective-VI)	4	0	3	7	70	0	30	50	150	36
163607	Technology of Ceramic Coatings (Department Elective-VI)	4	0	3	7	70	0	30	50	150	36
163608	Principles of Dyeing & Printing (Department Elective-VI)	4	0	3	7	70	0	30	50	150	36
	Total	**20**	**1**	**9**	**30**						

Semester - VI

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							
161301	Municipal Engineering	3	4	0	7	70	-	30	50	150	37
163701	Principles of Air and Noise Pollution	3	0	2	5	70	-	30	50	150	37
163702	Water & Wastewater Treatment Design	3	4	0	7	70	-	30	50	150	37
163703	Energy & Environment	4	2	0	6	70	-	30	50	150	37
161305	Occupational Health & Safety	3	2	0	5	70	-	30	50	150	37
	Total	**16**	**12**	**2**	**30**						