

GUJARAT TECHNOLOGICAL UNIVERSITY
Environmental Science & Technology(35)
BE 1st To 8th Semester Exam Scheme & Subject Code

EVALUATION SCHEME

University Exam (Theory) (E)		University Exam (Practical) (E)		Continuous Evaluation Process(M)		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.

1st Year

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							
110001	Chemistry	3	0	2	5	70	—	30	50	150	35
110002	Communication Skills	1	0	2	3	70	—	30	50	150	35

110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	—	30	50	150	35
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	—	30	50	150	35
110005	Elements of Electrical Engineering	4	0	2	6	70	—	30	50	150	35
110006	Elements of Mechanical Engineering	4	0	2	6	70	—	30	50	150	35
110007	Environmental Studies	3	0	0	3	70	—	30	50	150	35
110008 OR 110014	Maths-I (entry year 2008-10 having backlog)OR Calculus (entry year 2011-12)	3	2	0	5	70	—	30	50	150	35
110009 OR 110015	Maths-II (entry year 2008-10 having backlog) OR Vector Calculus and Linear Algebra (entry year 2011-12)	3	2	0	5	70	—	30	50	150	35
110010	Mechanics of Solids (Revised)	3	0	2	5	70	—	30	50	150	35
110011	Physics	3	0	2	5	70	—	30	50	150	35
110012	Workshop	0	0	4	4	0	—	0	100	100	35
110013	Engineering Graphics	2	0	4	6	70	—	30	50	150	35
	TOTAL	35	4	26	65						

Semester III

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							
130002	Advanced Engineering Mathematics	3	2	0	5	70	—	30	50	150	35
133501	Organic Chemistry for Technologists-I	3	0	3	6	70	—	30	50	150	35
133502	Analytical Techniques	3	0	2	5	70	—	30	50	150	35
133503	Applied Physics	3	0	2	5	70	—	30	50	150	35
133504	Physical Chemistry	3	0	2	5	70	—	30	50	150	35
133505	Chemistry for Environmental Science & Technology	4	0	0	4	70	—	30	50	150	35
	TOTAL	19	2	9	30						

Semester IV

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam (Theory)	University Exam (Practical)	Continuous Evaluation Process	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical							
140001	Mathematics-4	3	2	0	5	70	—	30	50	150	35
140002	Management-1	2	0	0	2	70	—	30	50	150	35
143501	Organic Chemistry for Technologists-II	3	0	3	6	70	—	30	50	150	35
143502	Chemical Engineering Operations	3	1	3	7	70	—	30	50	150	35
143503	Environmental Bioscience	3	1	0	4	70	—	30	50	150	35
143504	Fundamentals of Biotechnology (Institute elective)	4	0	2	6	70	—	30	50	150	35
TOTAL		18	4	8	30						

Semester V

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							
150001	Management-II	2	0	0	2	70	-	30	50	150	35
153501	Process Instrumentation, Dynamics & Control	3	0	3	6	70	-	30	50	150	35
153502	Basics of Mass Transfer	3	0	3	6	70	-	30	50	150	35
153503	Basics of Fuels	3	0	2	5	70	-	30	50	150	35
153504	Air Pollution Control	3	0	2	5	70	-	30	50	150	35
153505	Industrial Effluents - Characterization & Treatment (Institute Elective - II)	4	2	0	6	70	-	30	50	150	35
153506	Legislation in Environmental Protection (Institute Elective - II)	4	2	0	6	70	-	30	50	150	35
TOTAL		18	2	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 - VII

Subject Code	Subject Name	Teaching Scheme (Hours)			Credits	University Exam		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	Environmental 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 - VIII

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							
183501	Management of Chemical Industries	3	0	0	3	70	0	30	50	150	35
183502	Chemical Kinetics & Reaction Engineering	3	0	3	6	70	30	30	20	150	35
183503	Solid Fuel Operations	3	0	0	3	70	0	30	50	150	35
183504	Sustainable Development & Green Chemistry (Department Elective - II)	3	0	3	6	70	30	30	20	150	35
183505	Plant Utilities & Petroleum Refining (Department Elective - II)	3	0	3	6	70	30	30	20	150	35
183506	Project - II	0	0	12	12	0	150	0	50	200	35
	Total	12	0	18	30						

