

GUJARAT TECHNOLOGICAL UNIVERSITY
Environmental Engineering (13)
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	13
110002	Communication Skills	1	0	2	3	70	—	30	50	150	13
110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	—	30	50	150	13
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	—	30	50	150	13
110005	Elements of Electrical Engineering	4	0	2	6	70	—	30	50	150	13
110006	Elements of Mechanical Engineering	4	0	2	6	70	—	30	50	150	13
110007	Environmental Studies	3	0	0	3	70	—	30	50	150	13

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	13
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	13
110010	Mechanics of Solids (Revised)	3	0	2	5	70	—	30	50	150	13
110011	Physics	3	0	2	5	70	—	30	50	150	13
110012	Workshop	0	0	4	4	0	—	0	100	100	13
110013	Engineering Graphics	2	0	4	6	70	—	30	50	150	13
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							
130001/ 130002	Mathematics-3 / Advanced Engineering Mathematics (New)	3	2	0	5	70	—	30	50	150	13
130602	Fluid Mechanics	3	0	2	5	70	—	30	50	150	13
131301	Environmental Science-1	3	0	2	5	70	—	30	50	150	13
131304	Basics of Structural Engineering	3	2	0	5	70	—	30	50	150	13
131302	Environmental Microbiology	3	0	2	5	70	—	30	50	150	13
131303	Ecology and Remote Sensing	3	2	0	5	70	—	30	50	150	13
TOTAL		18	6	6	30						

Semester IV

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							
140001	Mathematics-4	3	2	0	5	70	—	30	50	150	13
140002	Management-1	2	0	0	2	70	—	30	50	150	13
141301	Design Of Environmental Structure	3	2	0	5	70	—	30	50	150	13
141302	Environmental Sciences-II	3	0	4	7	70	—	30	50	150	13
141303	Chemical Engineering Processes	3	2	0	5	70	—	30	50	150	13
141304	Water Pollution & Control (Institute Elective -I)	4	2	0	6	70	—	30	50	150	13
TOTAL		18	8	4	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	13
151301	Elements of Chemical Engineering	3	0	2	5	70	—	30	50	150	13
151302	Advanced Environmental Instrumentation	2	0	4	6	70	—	30	50	150	13
151303	Physico- Chemical Treatment	4	0	2	6	70	—	30	50	150	13
151304	Environmental Resources	3	2	0	5	70	—	30	50	150	13
151305	Air Pollution & Control (Institute Elective - II)	4	2	0	6	70	—	30	50	150	13
	TOTAL	18	4	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							
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 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 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							
181301	Municipal and Hazardous Solid Waste Management	3	2	0	5	70	30	30	20	150	13
181302	Environmental Impact Assessment	3	2	0	5	70	30	30	20	150	13
181303	Treatment Process Design and Drawing	3	4	0	7	70	30	30	20	150	13
181304	Environmental Legislation and Audit (Department Elective - II)	3	2	0	5	70	30	30	20	150	13
181305	Ground Water Contamination (Department Elective - II)	3	2	0	5	70	30	30	20	150	13
181306	Project II	0	0	8	8	0	100	0	50	150	13
TOTAL		12	10	8	30						