GUJARAT TECHNOLOGICAL UNIVERSITY
Plastic Technology (23)
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	23
110002	Communication Skills	1	0	2	3	70	–	30	50	150	23
110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	–	30	50	150	23
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	–	30	50	150	23
110005	Elements of Electrical Engineering	4	0	2	6	70	–	30	50	150	23
110006	Elements of Mechanical Engineering	4	0	2	6	70	–	30	50	150	23
110007	Environmental Studies	3	0	0	3	70	–	30	50	150	23
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	23

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	23
110010	Mechanics of Solids (Revised)	3	0	2	5	70	–	30	50	150	23
110011	Physics	3	0	2	5	70	–	30	50	150	23
110012	Workshop	0	0	4	4	0	–	0	100	100	23
110013	Engineering Graphics	2	0	4	6	70	–	30	50	150	23
	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							
130501	Organic Chemistry and Unit Processes	3	0	3	6	70	–	30	50	150	23
132301	Introduction to Plastic Material Science	3	0	3	6	70	–	30	50	150	23
132302	Manufacturing of Plastic Materials- 1	3	0	2	5	70	–	30	50	150	23
131101	Basic Electronics	4	0	2	6	70	–	30	50	150	23
130503	Computer Oriented Numerical Techniques	0	0	2	2	0	–	0	100	100	23
130001/ 130002	Mathematics-3 / Advanced Engineering Mathematics (New)	3	2	0	5	70	–	30	50	150	23
	TOTAL	**16**	**2**	**12**	**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	23
140002	Management-1	2	0	0	2	70	–	30	50	150	23
142301	Basic Plastics Processing And Thermal Engineering	3	0	3	6	70	–	30	50	150	23
142302	Plastics Industrial Hydraulics And Pneumatics	3	0	3	6	70	–	30	50	150	23
142303	Entrepreneurship And Creativity	3	2	0	5	70	–	30	50	150	23
142304	Institute Elective-I (Plastics Packaging Technology)	4	0	2	6	70	–	30	50	150	23
	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	23
152301	Injection Moulding Technologies	3	0	3	6	70	–	30	50	150	23
152302	Physics Of Plastics	3	0	3	6	70	–	30	50	150	23
152303	Plastics Recycling & Waste Treatment	3	0	3	6	70	–	30	50	150	23
152304	Plastic Processing & Machinery (Institute Elective-II)	4	0	2	6	70	–	30	50	150	23
152305	Seminar - I	0	0	4	4	0	–	0	100	100	23
	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							
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 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 - I	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 - I)	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 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							
182301	Plastics Mold & Die Design II	4	0	3	7	70	30	30	20	150	23
182302	Plastics Alloys and Blends	3	0	3	6	70	30	30	20	150	23
182303	Nano Technology and Advanced Application of Plastics	3	0	0	3	70	0	30	50	150	23
182304	Fiber Reinforced Plastics and Composites (Department Elective II)	4	0	2	6	70	30	30	20	150	23
182305	Biopolymers (Department Elective II)	4	0	2	6	70	30	30	20	150	23
182306	Project II	0	0	8	8	0	100	0	50	150	23
	TOTAL	**14**	**0**	**16**	**30**						