GUJARAT TECHNOLOGICAL UNIVERSITY
Manufacturing Engineering(34)
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	34
110002	Communication Skills	1	0	2	3	70	—	30	50	150	34
110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	—	30	50	150	34
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	—	30	50	150	34
110005	Elements of Electrical Engineering	4	0	2	6	70	—	30	50	150	34
110006	Elements of Mechanical Engineering	4	0	2	6	70	—	30	50	150	34
110007	Environmental Studies	3	0	0	3	70	—	30	50	150	34
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	34

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
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	34
110010	Mechanics of Solids (Revised)	3	0	2	5	70	—	30	50	150	34
110011	Physics	3	0	2	5	70	—	30	50	150	34
110012	Workshop	0	0	4	4	0	—	0	100	100	34
110013	Engineering Graphics	2	0	4	6	70	—	30	50	150	34
	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	34
133401	Thermodynamics and Thermal Engineering	3	1	0	4	70	—	30	50	150	34
133402	Electrical Drives and Controls	3	0	2	5	70	—	30	50	150	34
133403	Engineering Materials and Metallurgy	3	0	3	6	70	—	30	50	150	34
133404	Basic Manufacturing Processes	3	0	3	6	70	—	30	50	150	34
133405	Manufacturing and Assembly Drawing	2	0	2	4	70	—	30	50	150	34
	TOTAL	**17**	**3**	**10**	**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	4	1	0	5	70	—	30	50	150	34
140002	Management - I	2	0	0	2	70	—	30	50	150	34
143401	Machines and Mechanisms	3	1	2	6	70	—	30	50	150	34
143402	Metrology and Computer Aided Inspection	3	0	2	5	70	—	30	50	150	34
143403	Fluid Mechanics and Machinery	4	0	2	6	70	—	30	50	150	34
143404	Plastic Materials (Institute Elective-I)	3	1	2	6	70	—	30	50	150	34
	TOTAL	**19**	**3**	**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	34
153401	Applied Hydraulics and Pneumatics	4	1	0	5	70	—	30	50	150	34
153402	Computer Aided Design and Analysis	3	0	3	6	70	—	30	50	150	34
153403	Foundry and Welding Technology	4	0	2	6	70	—	30	50	150	34
153404	Mold Engineering	3	0	2	5	70	—	30	50	150	34
153405	Plastics Manufacturing Technology (Institute Elective - II)	4	0	2	6	70	—	30	50	150	34
	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							
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	70	-	30	50	150	34
163406	Composite Technology	4	0	0	4	70	-	30	50	150	34
	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							
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 - 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							
183401	Rapid Manufacturing	4	2	0	6	70	30	30	20	150	34
183402	Information Technology in Manufacturing	4	0	3	7	70	30	30	20	150	34
183403	Modern Manufacturing Practices	4	0	0	4	70	0	30	50	150	34
183404	Manufacturing Automation (Department Elective – II)	3	2	0	5	70	30	30	20	150	34
183405	Materials and Logistic Management (Department Elective – II)	3	2	0	5	70	30	30	20	150	34
183406	Project - II	0	0	8	8	0	100	0	50	150	34
	Total	**15**	**4**	**11**	**30**						