

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Rubber Technology (26)

### 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	26
110002	Communication Skills	1	0	2	3	70	—	30	50	150	26
110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	—	30	50	150	26
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	—	30	50	150	26
110005	Elements of Electrical Engineering	4	0	2	6	70	—	30	50	150	26
110006	Elements of Mechanical Engineering	4	0	2	6	70	—	30	50	150	26
110007	Environmental Studies	3	0	0	3	70	—	30	50	150	26
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	26

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	26
110010	Mechanics of Solids (Revised)	3	0	2	5	70	—	30	50	150	26
110011	Physics	3	0	2	5	70	—	30	50	150	26
110012	Workshop	0	0	4	4	0	—	0	100	100	26
110013	Engineering Graphics	2	0	4	6	70	—	30	50	150	26
<b>TOTAL</b>		<b>35</b>	<b>4</b>	<b>26</b>	<b>65</b>						

### 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	26
132601	Basic Rubber Science	3	0	3	6	70	—	30	50	150	26
130001/ 130002	Mathematics-3 / Advanced Engineering Mathematics (New)	3	2	0	5	70	—	30	50	150	26
130503	Computer Oriented Numerical Techniques	0	0	2	2	0	—	0	100	100	26
132602	Rubber Technology	3	0	4	7	70	—	30	50	150	26
132603	Thermodynamics of Elastomers and Polymers	3	1	0	4	70	—	30	50	150	26
<b>TOTAL</b>		<b>15</b>	<b>3</b>	<b>12</b>	<b>30</b>						

### 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	26
140002	Management-1	2	0	0	2	70	—	30	50	150	26
142601	Rubber Compounding Materials	3	0	3	6	70	—	30	50	150	26
142602	Natural Rubber Science And Technology	3	0	3	6	70	—	30	50	150	26
142603	Rubber Engineering	3	0	2	5	70	—	30	50	150	26
142604	Institute Elective-1(Introduction To Rubbers & Rubbery Materials)	4	0	2	6	70	—	30	50	150	26
<b>TOTAL</b>		<b>18</b>	<b>2</b>	<b>10</b>	<b>30</b>						

**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	26
152601	Vulcanisation	3	0	2	5	70	—	30	50	150	26
152602	Latex Technology	3	0	3	6	70	—	30	50	150	26
152603	Textile & Metal Reinforcement of Elastomers	3	0	3	6	70	—	30	50	150	26
152604	Rheology of Rubber	3	0	2	5	70	—	30	50	150	26
152605	Rubbers: Manufacturing & its Applications (Institute Elective-II)	4	0	2	6	70	—	30	50	150	26
<b>TOTAL</b>		<b>18</b>	<b>0</b>	<b>12</b>	<b>30</b>						

**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
<b>TOTAL</b>		<b>15</b>	<b>0</b>	<b>15</b>	<b>30</b>						

**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							
172601	Rubber Equipment Design -II	3	0	3	6	70	30	30	20	150	26
172602	Polymers Kinetics	3	0	3	6	70	30	30	20	150	26
172603	Rubber Plant & Process Engineering	3	0	0	3	70	0	30	50	150	26
172604	Rubber Products Manufacturing	3	0	2	5	70	30	30	20	150	26
172605	Rubber Adhesion & Adhesion Science (Department Elective - I)	4	0	2	6	70	30	30	20	150	26
172606	Rubber Recycling & Waste Management (Department Elective - I)	4	0	2	6	70	30	30	20	150	26
170001	Project - I	0	0	4	4	0	100	0	50	150	26
	<b>TOTAL</b>	<b>16</b>	<b>0</b>	<b>14</b>	<b>30</b>						

**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							
182601	Tyre & Tube Technology	3	0	3	6	70	30	30	20	150	26
182602	Belts, Hoses & Footwear Technology (Department Elective II)	3	0	3	6	70	30	30	20	150	26
182603	Polyurethane Technology (Department Elective II)	3	0	3	6	70	30	30	20	150	26
182604	Automation & Control in Rubber Industries	3	0	2	5	70	30	30	20	150	26
182605	Rubber Process & Product Computer Aided Design	3	0	2	5	70	30	30	20	150	26
182606	Project II	0	0	8	8	0	100	0	50	150	26
	<b>TOTAL</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>30</b>						