

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Electrical & Electronics Engineering (08)**  
**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	8
110002	Communication Skills	1	0	2	3	70	—	30	50	150	8
110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	—	30	50	150	8
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	—	30	50	150	8
110005	Elements of Electrical Engineering	4	0	2	6	70	—	30	50	150	8
110006	Elements of Mechanical Engineering	4	0	2	6	70	—	30	50	150	8
110007	Environmental Studies	3	0	0	3	70	—	30	50	150	8

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	8
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	8
110010	Mechanics of Solids (Revised)	3	0	2	5	70	—	30	50	150	8
110011	Physics	3	0	2	5	70	—	30	50	150	8
110012	Workshop	0	0	4	4	0	—	0	100	100	8
110013	Engineering Graphics	2	0	4	6	70	—	30	50	150	8
<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							
130001/ 130002	Mathematics-3 / Advanced Engineering Mathematics (New)	3	2	0	5	70	—	30	50	150	8
131101	Basic Electronics	4	0	2	6	70	—	30	50	150	8
130901	Circuits and Networks	4	0	2	6	70	—	30	50	150	8
130701	Digital Logic Design	4	0	2	6	70	—	30	50	150	8
130904	Electrical Machines-1	3	0	2	5	70	—	30	50	150	8
130801	Simulation and Design Tools	0	0	2	2	0	—	0	100	100	8
<b>TOTAL</b>		<b>18</b>	<b>2</b>	<b>10</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	8
140002	Management-1	2	0	0	2	70	—	30	50	150	8
140701	Microprocessor And Interfacing	3	0	2	5	70	—	30	50	150	8
141101	Advance Electronics	4	0	2	6	70	—	30	50	150	8
141102	Institute Elective-1(Communication Engineering)	4	0	2	6	70	—	30	50	150	8
141701	Control Theory	4	0	2	6	70	—	30	50	150	8
<b>TOTAL</b>		<b>20</b>	<b>2</b>	<b>8</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	8
151001	Microcontroller and Interfacing	3	0	2	5	70	—	30	50	150	8
151002	Engineering Electromagnetics	3	0	0	3	70	—	30	50	150	8
150801	Electrical Power Engineering	4	0	2	6	70	—	30	50	150	8
150802	Electrical Machine	4	0	2	6	70	—	30	50	150	8
151005	Electronics Measurements and Instrumentation Laboratory	0	0	2	2	0	—	0	100	100	8
151006	Applied Electronics (Institute Elective - II)	4	0	2	6	70	—	30	50	150	8
	<b>TOTAL</b>	<b>20</b>	<b>0</b>	<b>10</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							
160801	Integrated Circuits & Application	3	0	2	5	70	—	30	50	150	8
160802	Electronic Communication	4	0	2	6	70	—	30	50	150	8
160803	Switch Gear & Protection	4	0	2	6	70	—	30	50	150	8
160804	Electrical Machine Design	4	0	2	6	70	—	30	50	150	8
160805	Advanced Microprocessors	3	0	2	5	70	—	30	50	150	8
160806	Mini-Project	0	0	2	2	0	—	0	100	100	8
	<b>TOTAL</b>	<b>18</b>	<b>0</b>	<b>12</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							
170801	Power Electronics and Industrial Drives	3	0	2	5	70	30	30	20	150	8
170802	Industrial Automation	3	0	2	5	70	30	30	20	150	8
170803	Electrical and Electronics Measuring Instruments	3	0	2	5	70	30	30	20	150	8
170804	Discrete Time Signal Processing	3	0	2	5	70	30	30	20	150	8
170805	Embedded Systems and Applications (Department Elective - I)	4	0	2	6	70	30	30	20	150	8
170806	Digital Control System (Department Elective - I)	4	0	2	6	70	30	30	20	150	8
170807	Power System Analysis (Department Elective - I)	4	0	2	6	70	30	30	20	150	8
170001	Project - I	0	0	4	4	0	100	0	50	150	8
	<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							
180801	Testing and Installation of Electrical Equipments and Systems	4	0	2	6	70	30	30	20	150	8
180802	VLSI Technologies	4	0	2	6	70	30	30	20	150	8
180803	Biomedical Instrumentation (Department Elective - II)	4	0	2	6	70	30	30	20	150	8
180804	Modelling and Simulation Techniques (Department Elective - II)	4	0	2	6	70	30	30	20	150	8
180805	High Voltage Engineering (Department Elective - II)	4	0	2	6	70	30	30	20	150	8
180806	Project II	0	0	12	12	0	150	0	50	200	8
	<b>TOTAL</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>30</b>						