

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Mining Engineering (22)

### 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	22
110002	Communication Skills	1	0	2	3	70	—	30	50	150	22
110003	Computer Programming & Utilization (Revised)	2	0	4	6	70	—	30	50	150	22
110004	Elements of Civil Engineering (Revised)	4	0	2	6	70	—	30	50	150	22
110005	Elements of Electrical Engineering	4	0	2	6	70	—	30	50	150	22
110006	Elements of Mechanical Engineering	4	0	2	6	70	—	30	50	150	22
110007	Environmental Studies	3	0	0	3	70	—	30	50	150	22
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	22

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	22
110010	Mechanics of Solids (Revised)	3	0	2	5	70	—	30	50	150	22
110011	Physics	3	0	2	5	70	—	30	50	150	22
110012	Workshop	0	0	4	4	0	—	0	100	100	22
110013	Engineering Graphics	2	0	4	6	70	—	30	50	150	22
<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	22
130601	Surveying	3	0	2	5	70	—	30	50	150	22
130602	Fluid Mechanics	3	0	2	5	70	—	30	50	150	22
132201	Introduction to Mining	4	0	0	4	70	—	30	50	150	22
132202	Mine Development	4	0	2	6	70	—	30	50	150	22
132203	Geology-1	3	0	2	5	70	—	30	50	150	22
<b>TOTAL</b>		<b>20</b>	<b>2</b>	<b>8</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	22
140002	Management-1	2	0	0	2	70	—	30	50	150	22
142201	Mining Machinery- 1	4	0	2	6	70	—	30	50	150	22
142202	Basic Mine Surveying	2	0	4	6	70	—	30	50	150	22
142203	Geology-2	3	0	2	5	70	—	30	50	150	22
142204	Institute Elective-1(Mineral Transport Engineering)	4	0	2	6	70	—	30	50	150	22
<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	22
152201	Mining Machinery II	2	0	2	4	70	—	30	50	150	22
152202	Surface Mine Production	2	0	2	4	70	—	30	50	150	22
152203	Rock Mechanics	3	0	2	5	70	—	30	50	150	22
152204	Advance Mine Surveying	2	0	4	6	70	—	30	50	150	22
152205	Underground Coal Mining	3	0	0	3	70	—	30	50	150	22
152206	Fuel Technology (Institute Elective –II )	4	0	2	6	70	—	30	50	150	22
<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							
162201	Economic Geology I	3	0	2	5	70	—	30	50	150	22
162202	Underground Metal Mining	4	0	2	6	70	—	30	50	150	22
162203	Sub-Surface Environment	3	0	2	5	70	—	30	50	150	22
162204	Mine Hazards	4	0	2	6	70	—	30	50	150	22
162205	Mine Surface Environment	4	0	2	6	70	—	30	50	150	22
162206	Computer Application in Mining	2	0	0	2	70	—	30	50	150	22
<b>TOTAL</b>		<b>20</b>	<b>0</b>	<b>10</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							
172201	Mine Planning	4	0	2	6	70	30	30	20	150	22
172202	Mine Legislation	4	0	0	4	70	0	30	50	150	22
172203	Environment Management in Mine	3	0	2	5	70	30	30	20	150	22
172204	Mineral Processing	3	0	2	5	70	30	30	20	150	22
172205	Rock Slope Engineering (Department Elective - I)	4	0	2	6	70	30	30	20	150	22
172206	Rock Engineering (Department Elective - I)	4	0	2	6	70	30	30	20	150	22
172207	Rock Fragmentation (Department Elective - I)	4	0	2	6	70	30	30	20	150	22
170001	Project - I	0	0	4	4	0	100	0	50	150	22
	<b>TOTAL</b>	<b>18</b>	<b>0</b>	<b>12</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							
182201	Mine & Mineral Economics	3	0	2	5	70	30	30	20	150	22
182202	Advance mining Methods	3	0	0	3	70	0	30	50	150	22
182203	Mining & Processing of Dimensional Stone	3	0	2	5	70	30	30	20	150	22
182204	Mine Safety Engg.	3	0	0	3	70	0	30	50	150	22
182205	Project II	0	0	8	8	0	100	0	50	150	22
182206	Underground Space Technology (Department Elective II)	4	0	2	6	70	30	30	20	150	22
182207	Geological Exploration of Mineral Deposits (Department Elective II)	4	0	2	6	70	30	30	20	150	22
	<b>TOTAL</b>	<b>16</b>	<b>0</b>	<b>14</b>	<b>30</b>						