



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**(Established under Gujarat Act No. 20 of 2007)**

**ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી**  
(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

**Revised**

Ref: GTU/academic/2013/8110

Date: 24<sup>th</sup> August 2013

Teaching scheme for Semester I and semester II for all courses of Bachelor of Engineering to be implemented from Academic year 2013-14

Various Branches of Engineering are divided in Two Groups:

**Group – I:**

Aeronautical Engineering, Automobile Engineering, Industrial Engineering, Mechanical Engineering, Mechatronic Engineering, Metallurgy Engineering, Production Engineering, Manufacturing Engineering, Chemical Engineering, Plastic Technology, Rubber Technology, Chemical Technology, Civil Engineering, Environmental Engineering, Environmental Science and Technology, Environmental Science & Engineering, Food Processing Technology, Mining Engineering, Textile Processing, Textile Technology, Bio-technology, Nano Technology

**Semester – 1**

Sr No	Subject Name	Theory	Tutorial	Practical	Credits
1	Calculus	3	2	0	5
2	Communication Skills	2	0	2	4
3	Elements of Electrical Engineering	4	0	2	6
4	Elements of Mechanical Engineering	4	0	2	6
5	Engineering Graphics	2	0	4	6
6	Environmental Studies	3	0	0	3
	<b>Total</b>	<b>18</b>	<b>2</b>	<b>10</b>	<b>30</b>

**Semester – 2**

Sr No	Subject Name	Theory	Tutorial	Practical	Credits
1	Vector Calculus & Linear Algebra	3	2	0	5
2	Computer Programming and Utilization	3	1	2	6
3	Physics/Chemistry	3	0	2	5
4	Elements of Civil Engineering	4	0	2	6
5	Workshop	0	0	4	4
6	Contributor Personality Development	4	0	0	4
	<b>Total</b>	<b>17</b>	<b>3</b>	<b>10</b>	<b>30</b>

Note:

1. Calculus and Vector Calculus & Linear Algebra must to be offered in semester 1 and 2 respectively.
2. Contributor Personality Development must to be offered in 2.
3. Remaining courses can be offered in either of the semesters.



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4. For Group 1, Physics/Chemistry must be offered to the branches as per current scheme (refer [http://gtu.ac.in/Circulars\\_BeforeNov2008.asp](http://gtu.ac.in/Circulars_BeforeNov2008.asp)).

**Group – II:**

Bio-Medical Engineering, Instrumentation & Control Engineering, Computer Engineering, Information Technology, Computer Science & Engineering, Information & Communication Technology, Electrical & Electronics Engineering, Electronics Engineering, Electronics & Communication Engineering, Electronics & Telecommunication Engineering, Electrical Engineering, Power Electronics Engineering

**Semester – 1**

Sr No	Subject Name	Theory	Tutorial	Practical	Credits
1	Calculus	3	2	0	5
2	Communication Skills	2	0	2	4
3	Elements of Electrical Engineering	4	0	2	6
4	Environmental Studies	3	0	0	3
5	Computer Programming and Utilization	3	1	2	6
6	Elements of Mechanical Engineering	4	0	2	6
	<b>Total</b>	<b>19</b>	<b>3</b>	<b>8</b>	<b>30</b>

**Semester – 2**

Sr No	Subject Name	Theory	Tutorial	Practical	Credits
1	Vector Calculus & Linear Algebra	3	2	0	5
2	Engineering Graphics	2	0	4	6
3	Physics	3	0	2	5
4	Basic Electronics	4	0	2	6
5	Electrical and Electronics Workshop	0	0	4	4
6	Contributor Personality Development	4	0	0	4
	<b>Total</b>	<b>16</b>	<b>2</b>	<b>12</b>	<b>30</b>

Note:

1. Calculus and Vector Calculus & Linear Algebra must to be offered in semester 1 and 2 respectively.
2. Contributor Personality Development must to be offered in 2.
3. Elements of Electrical Engineering and Basic electronics must be offered in semester 1 and 2 respectively.
4. Remaining courses can be offered in either of the semesters.