

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**3rd Semester BE**  
**BE 3rd Semester Exam Scheme & Subject Code (w.e.f. 2014-15)**

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	1
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	1
<a href="#">2130101</a>	Fundamentals of Fluid Mechanics	3	0	2	5	70	30	30	20	150	1
<a href="#">2130103</a>	Analysis Of Mechanisms & Machine Elements	3	2	0	5	70	30	30	20	150	1
<a href="#">2130105</a>	Electrical Machines & Electronics	3	1	0	4	70	30	30	20	150	1
<a href="#">2130106</a>	Aircraft Science and Manufacturing Processes	3	0	2	5	70	30	30	20	150	1
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	1
	<b>Total</b>	19	5	9	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	2
<a href="#">2130003</a>	Mechanics of Solid	4	0	2	6	70	30	30	20	150	2
<a href="#">2131903</a>	Manufacturing Process-1	3	0	2	5	70	30	30	20	150	2
<a href="#">2131904</a>	Material Science and Metallurgy	3	0	2	5	70	30	30	20	150	2
<a href="#">2131905</a>	Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	2
<a href="#">2131906</a>	Kinematics of Machines	3	1	0	4	70	30	30	20	150	2
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	2
	<b>Total</b>	20	4	6	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	4
<a href="#">2130003</a>	Mechanics of solids	4	0	2	6	70	30	30	20	150	4
<a href="#">2130401</a>	Introductory Biology	3	0	0	3	70	30	0	0	100	4
<a href="#">2130403</a>	Basic Biochemistry	3	0	3	6	70	30	30	20	150	4
<a href="#">2130404</a>	Fundamentals of Organic Chemistry	3	0	3	6	70	30	30	20	150	4
<a href="#">2130405</a>	Thermodynamics	3	1	0	4	70	30	30	20	150	4
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	4
	<b>Total</b>	19	3	8	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	5
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	5
<a href="#">2130501</a>	Organic Chemistry and Unit Processes	3	0	2	5	70	30	30	20	150	5
<a href="#">2130502</a>	Fluid Flow Operation	3	0	2	5	70	30	30	20	150	5
<a href="#">2130504</a>	Process Calculation	3	1	0	4	70	30	30	20	150	5
<a href="#">2130505</a>	Chemical Process Industries-1	3	0	2	5	70	30	30	20	150	5
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	5
	<b>Total</b>	19	3	8	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	6
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	6
<a href="#">2130601</a>	Surveying	3	0	2	5	70	30	30	20	150	6
<a href="#">2130602</a>	Fluid Mechanics	3	0	2	5	70	30	30	20	150	6
<a href="#">2130606</a>	Geotechnics & Applied Geology	4	0	1	5	70	30	30	20	150	6
<a href="#">2130607</a>	Building Construction	3	1	0	4	70	30	30	20	150	6
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	6
	<b>Total</b>	20	3	7	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	7, 31
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	7, 31
<a href="#">2130702</a>	Data Structure	4	0	4	8	70	30	30	20	150	7, 31
<a href="#">2130703</a>	Database Management Systems	4	0	4	8	70	30	30	20	150	7, 31
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	7, 31
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	7, 31
	<b>Total</b>	18	2	10	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	8
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	8
<a href="#">2130901</a>	Circuits and Networks	4	0	2	6	70	30	30	20	150	8
<a href="#">2130902</a>	Analog Electronics	3	0	2	5	70	30	30	20	150	8
<a href="#">2130903</a>	Electrical Measurement and Measuring Instruments	3	0	2	5	70	30	30	20	150	8
<a href="#">2130904</a>	DC Machines and Transformer	4	0	2	6	70	30	30	20	150	8
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	8
	<b>Total</b>	20	2	8	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	9
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	9
<a href="#">2130901</a>	Circuits & Networks	4	0	2	6	70	30	30	20	150	9
<a href="#">2130902</a>	Analog Electronics	3	0	2	5	70	30	30	20	150	9
<a href="#">2130903</a>	Electrical Measurement and Measuring Instruments	3	0	2	5	70	30	30	20	150	9
<a href="#">2130904</a>	DC Machines and Transformer	4	0	2	6	70	30	30	20	150	9
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	9
	<b>Total</b>	20	2	8	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	10
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	10
<a href="#">2130901</a>	Circuits and Networks	4	0	2	6	70	30	30	20	150	10
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	10
<a href="#">2131005</a>	Electrical Machines	3	0	2	5	70	30	30	20	150	10
<a href="#">2131006</a>	Electronic Devices and Circuits	4	0	2	6	70	30	30	20	150	10
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	10
	<b>Total</b>	21	2	8	34						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	11, 12
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	11, 12
<a href="#">2130901</a>	Circuits and Networks	4	0	2	6	70	30	30	20	150	11, 12
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	11, 12
<a href="#">2131005</a>	Electrical Machines	3	0	2	5	70	30	30	20	150	11, 12
<a href="#">2131006</a>	Electronics Devices & Circuits	4	0	2	6	70	30	30	20	150	11, 12
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	11, 12
	<b>Total</b>	21	2	8	34						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	13, 37
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	13, 37
<a href="#">2131301</a>	Environmental Sciences I	4	0	4	8	70	30	30	20	150	13, 37
<a href="#">2131302</a>	Environmental Microbiology & Bioremediation	4	2	0	6	70	30	30	20	150	13, 37
<a href="#">2131304</a>	Chemical Engg Processes	3	2	0	5	70	30	30	20	150	13, 37
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	13, 37
	<b>Total</b>	18	6	6	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	14
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	14
<a href="#">2131404</a>	Food Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	14
<a href="#">2131405</a>	Introduction to Food Processing Technology	4	0	0	4	70	30	0	0	100	14
<a href="#">2131406</a>	Food Chemistry	3	0	2	5	70	30	30	20	150	14
<a href="#">2131407</a>	Basic Food Microbiology	3	0	2	5	70	30	30	20	150	14
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	14
	<b>Total</b>	21	3	6	33						

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		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	16
<a href="#">2130004</a>	Engineering Economics & Management	3	0	0	3	70	30	0	0	100	16
<a href="#">2130702</a>	Data structures	4	0	4	8	70	30	30	20	150	16
<a href="#">2130703</a>	Database Management Systems	4	0	4	8	70	30	30	20	150	16
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	16
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	16
	<b>Total</b>	18	2	10	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	17
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	17
<a href="#">2130901</a>	Circuits and Networks	4	0	2	6	70	30	30	20	150	17
<a href="#">2131005</a>	Electrical Machines	3	0	2	5	70	30	30	20	150	17
<a href="#">2131006</a>	Electronic Devices & circuits	4	0	2	6	70	30	30	20	150	17
<a href="#">2131704</a>	Digital Logic Circuits	3	0	2	5	70	30	30	20	150	17
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	17
	<b>Total</b>	20	2	8	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	19
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	19
<a href="#">2131903</a>	Manufacturing Process-1	3	0	2	5	70	30	30	20	150	19
<a href="#">2131904</a>	Material Science and Metallurgy	3	0	2	5	70	30	30	20	150	19
<a href="#">2131905</a>	Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	19
<a href="#">2131906</a>	Kinematics of Machines	3	1	0	4	70	30	30	20	150	19
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	19
	<b>Total</b>	20	4	9	33						

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Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	20
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	20
<a href="#">2132001</a>	Industrial Drafting	2	0	2	4	70	30	30	20	150	20
<a href="#">2132002</a>	Simulation & Design Tools	0	0	3	3	0	0	80	20	100	20
<a href="#">2132003</a>	Design Concepts in Basic Electronics	4	0	2	6	70	30	30	20	150	20
<a href="#">2132004</a>	Principles Of Materials Science And Physical Metallurgy	4	0	2	6	70	30	30	20	150	20
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	20
	<b>Total</b>	17	2	11	33						



**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	22
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	22
<a href="#">2130601</a>	Surveying	3	0	2	5	70	30	30	20	150	22
<a href="#">2130101</a>	Fundamentals of Fluid Mechanics	3	0	2	5	70	30	30	20	150	22
<a href="#">2132201</a>	Introduction To Mining	4	0	0	4	70	30	0	0	100	22
<a href="#">2132203</a>	Geology-I	3	0	2	5	70	30	30	20	150	22
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	22
	<b>Total</b>	20	2	8	33						

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Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	23
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	23
<a href="#">2132301</a>	Introduction to Plastic Material Science	3	0	3	6	70	30	30	20	150	23
<a href="#">2132302</a>	Manufacturing of Plastic Materials-1	3	0	3	6	70	30	30	20	150	23
<a href="#">2132303</a>	Basic of Plastic Material Testing	4	0	3	7	70	30	30	20	150	23
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	23
	<b>Total</b>	17	2	11	33						

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		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	24
<a href="#">2130004</a>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	24
<a href="#">2130901</a>	Circuits & Networks	4	0	2	6	70	30	30	20	150	24
<a href="#">2132404</a>	<b>Principles of Power Electronics</b>	3	0	2	5	70	30	30	20	150	24
<a href="#">2130903</a>	Electrical Measurement and Measuring Instruments	3	0	2	5	70	30	30	20	150	24
<a href="#">2130904</a>	DC Machines & Transformer	4	0	2	6	70	30	30	20	150	24
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	24
	<b>Total</b>	20	2	8	33						

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		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	25
<a href="#">2130003</a>	Mechanics of Solid	4	0	2	6	70	30	30	20	150	25
<a href="#">2131904</a>	Material Science and Metallurgy	3	0	2	5	70	30	30	20	150	25
<a href="#">2132501</a>	Machining Processes	4	0	2	6	70	30	30	20	150	25
<a href="#">2132502</a>	Engineering Thermodynamics & Heat transfer	4	2	0	6	70	30	30	20	150	25
<a href="#">2132503</a>	Computer Aided Drafting	0	0	2	2	0	0	80	20	100	25
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	25
	<b>Total</b>	18	4	8	30						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	28
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	28
<a href="#">2132801</a>	Textile Design & Colour	4	0	0	4	70	30	0	0	100	28
<a href="#">2132805</a>	Organic Chemistry	3	0	2	5	70	30	30	20	150	28
<a href="#">2132806</a>	Textile Manufacturing - I	4	0	2	6	70	30	30	20	150	28
<a href="#">2132901</a>	Textile Fibres	4	0	0	4	70	30	0	0	100	28
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	28
	<b>Total</b>	22	2	6	33						

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Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	29
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	29
<a href="#">2132901</a>	Textile Fibres	4	0	0	4	70	30	0	0	100	29
<a href="#">2132902</a>	Yarn Manufacturing-I	4	0	2	6	70	30	30	20	150	29
<a href="#">2132904</a>	Textile Processing - I	4	0	2	6	70	30	30	20	150	29
<a href="#">2132905</a>	Basic Engineering in Textile	3	0	0	3	70	30	0	0	100	29
2130005	Design Engineering - I A	0	0	3	3	0	0	80	20	100	29
	<b>Total</b>	22	2	6	33						

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Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	32
<a href="#">2130004</a>	Engineering Economics & Management	3	0	0	3	70	30	0	0	100	32
<a href="#">2130702</a>	Data structures	4	0	4	8	70	30	30	20	150	32
<a href="#">2130703</a>	Database Management Systems	4	0	4	8	70	30	30	20	150	32
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	32
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	32
	<b>Total</b>	18	2	10	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	4	0	2	6	70	30	30	20	150	34
<a href="#">2130003</a>	Mechanics of Solids	3	2	0	5	70	30	30	20	150	34
<a href="#">2133402</a>	Electrical Drives and Controls	3	0	2	5	70	30	30	20	150	34
<a href="#">2133403</a>	Engineering Materials and Metallurgy	3	0	2	5	70	30	30	20	150	34
<a href="#">2133404</a>	Basic Manufacturing Processes	3	0	2	5	70	30	30	20	150	34
<a href="#">2133405</a>	Manufacturing and Assembly Drawing	2	0	2	4	70	30	30	20	150	34
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	34
	<b>Total</b>	18	2	10	33						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	35
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	35
<a href="#">2133506</a>	Physico-chemical Processes	3	0	2	5	70	30	30	20	150	35

<a href="#">2133501</a>	Organic Chemistry	3	0	3	6	70	30	30	20	150	35
<a href="#">2133502</a>	Analytical Techniques	3	0	2	5	70	30	30	20	150	35
<a href="#">2133505</a>	Chemistry for Environmental Science and Technology	3	0	0	3	70	30	0	0	100	35
<a href="#">2130005</a>	Design of Engineering-1 A	0	0	3	3	0	0	80	20	100	35
	<b>Total</b>	19	2	9	33						

### Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	36
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	36
<a href="#">2133605</a>	Organic Chemistry for Technologists	3	0	3	6	70	30	30	20	150	36
<a href="#">2133606</a>	Material & Energy Balance Calculations	3	1	0	4	70	30	30	20	150	36
<a href="#">2133607</a>	Physical Chemistry	3	0	2	5	70	30	30	20	150	36
	Department Elective-I	4	0	0	4	70	30	0	0	100	36
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	36
	<b>Total</b>	20	3	7	33						

### Department Elective- I

code	Name of the subject
<a href="#">2133601</a>	Introduction to Medicinal Chemistry & Biochemistry
<a href="#">2133602</a>	Polymer Chemistry
<a href="#">2133603</a>	Introduction to Glass & Ceramic Technology-I
<a href="#">2133604</a>	Chemistry of Intermediates & Colorants-I

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	39
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	39
<a href="#">2133901</a>	Fundamentals of Solid State Technology	3	0	0	3	70	30	0	0	100	39
<a href="#">2133902</a>	Elements of Nanoscience and Nanotechnology-I	3	0	0	3	70	30	0	0	100	39
<a href="#">2133903</a>	Synthesis of Nanomaterials-I	2	0	4	6	70	30	30	20	150	39
<a href="#">2133904</a>	Characterization of Nanomaterials-I	2	0	4	6	70	30	30	20	150	39
<a href="#">2130005</a>	Design Engineering - I A	0	0	3	3	0	0	80	20	100	39
	<b>Total</b>	17	2	10	32						

**Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	40
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	40
<a href="#">2130005</a>	Design Engineering I-A	0	0	3	3	0	0	80	20	100	40
<a href="#">2134001</a>	Machineries & Equipments	3	0	0	3	70	30	0	0	100	40
<a href="#">2134002</a>	Building Technology & Materials	3	0	2	5	70	30	30	20	150	40
<a href="#">2134003</a>	Geomatics Engineering	3	0	2	5	70	30	30	20	150	40
<a href="#">2134004</a>	Green Chemistry & Technology	3	0	2	5	70	30	30	20	150	40
	<b>Total</b>	<b>19</b>	<b>2</b>	<b>11</b>	<b>32</b>						

**Robotics and Automation (41)****Semester III**

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
<a href="#">2130002</a>	Advance Engineering Mathematics	3	2	0	5	70	30	30	20	150	41
<a href="#">2130003</a>	Mechanics of Solids	4	0	2	6	70	30	30	20	150	41
<a href="#">2131004</a>	Digital Electronics	4	0	2	6	70	30	30	20	150	41
<a href="#">2131006</a>	Electronic Devices and Circuits	4	0	2	6	70	30	30	20	150	41
<a href="#">2131906</a>	Kinematics of Machines	3	1	0	4	70	30	30	20	150	41
<a href="#">2134101</a>	Simulation and Design Tools	0	0	2	2	0	0	80	20	100	41
<a href="#">2130005</a>	Design Engineering I-A	0	0	3	3	0	0	80	20	100	41
	<b>Total</b>	<b>18</b>	<b>3</b>	<b>8</b>	<b>29</b>						