GUJARAT TECHNOLOGICAL UNIVERSITY

(Revised on 12thJan 2015)

Aeronautical Engineering (01)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks		Practical rks	Total	Branch
code	Č	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	1
<u>2140101</u>	Aircraft Structures I	3	1	0	4	70	30	30	20	150	1
2140103	Aircraft Systems, Instruments and Maintenance	4	2	0	6	70	30	30	20	150	1
<u>2140105</u>	Numerical Methods	3	2	0	5	70	30	30	20	150	1
<u>2140106</u>	Basic Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	1
<u>2140107</u>	Computational fluid dynamics I	3	0	2	5	70	30	30	20	150	1
<u>2140108</u>	Solid and Surface Modelling	0	0	2	2	0	0	80	20	100	1
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	1
	Total	20	6	4	33						

Automobile Engineering (02)

Subject	Subject name	Teac	ching Scheme (H	ours)	Credits	Theory	Marks		Practical rks	Total	Branch
code	ů	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	2
<u>2140203</u>	Automobile Engines	3	0	2	5	70	30	30	20	150	2
<u>2141901</u>	Mechanical Measurement & Metrology	3	0	2	5	70	30	30	20	150	2
<u>2141905</u>	Complex Variables and Numerical Methods	3	2	0	5	70	30	30	20	150	2
<u>2141906</u>	Fluid Mechanics	4	0	2	6	70	30	30	20	150	2
2141907	Machine Design & Industrial Drafting	4	0	2	6	70	30	30	20	150	2
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	2
	Total	20	2	8	33						

Biomedical Engineering (03)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks		Practical rks	Total	Branch
code	Ů	Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2141703	Numerical Techniques & Statistical Methods	3	2	0	5	70	30	30	20	150	3
<u>2140304</u>	Microprocessor & its Interfacing	4	0	2	6	70	30	30	20	150	3
<u>2140305</u>	Analog Circuits-II	4	0	2	6	70	30	30	20	150	3
<u>2140306</u>	Biosensors & Transducers	4	0	2	6	70	30	30	20	150	3
<u>2140307</u>	Control System and Analysis	3	0	2	5	70	30	30	20	150	3
<u>2140308</u>	Mini Project 1/Internship/RA/TA	0	0	2	2	0	0	80	20	100	3
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	3
	Total	18	2	10	33						

Bio-Technology(04)

Subject	Cubicat name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	ırks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	4
<u>2140401</u>	Molecular Biology and Genetics	3	0	2	5	70	30	30	20	150	4
2140402	Basic Taxonomy and Techniques	2	0	2	4	70	30	30	20	150	4
<u>2140403</u>	Principles of Process Engineering-I	3	0	3	6	70	30	30	20	150	4
<u>2140405</u>	Cell Biology and Industrial Biotechnology	4	0	3	7	70	30	30	20	150	4
<u>2140406</u>	Stoichiometry	3	2	0	5	70	30	30	20	150	4
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	4
	Total	18	2	10	33						

Chemical Engineering (05)

Semester IV w.e.f Jan'15

Subject	G 11. 4	Teac	ching Scheme (Ho	ours)	G 114	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140003	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	5
<u>2140501</u>	Physical And Inorganic Chemistry	3	0	4	7	70	30	30	20	150	5
2140502	Chemical Engineering Thermodynamics - I	3	1	0	4	70	30	30	20	150	5
2140503	Process Heat Transfer	3	0	3	6	70	30	30	20	150	5
2140505	Chemical Engineering Maths	3	2	0	5	70	30	30	20	150	5
2140506	Chemical Process Industries -II	3	0	2	5	70	30	30	20	150	5
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	5
	Total	18	3	9	33						

Civil Engineering (06)

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	6
<u>2140601</u>	Advanced Surveying	3	0	2	5	70	30	30	20	150	6
<u>2140603</u>	Structural Analysis-I	4	2	0	6	70	30	30	20	150	6
<u>2140606</u>	Numerical and Statistical Methods for Civil Engineering	3	2	0	5	70	30	30	20	150	6
2140607	Buliding & Town Planning	4	0	2	6	70	30	30	20	150	6
2140608	Concrete Technology	3	0	2	5	70	30	30	20	150	6
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	19
	Total	20	4	6	33						

Computer Engineering (07), Computer Sceince & Engineering (31)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140702	Operating System	4	0	2	6	70	30	30	20	150	7, 31
2140705	Object Oriented Programming With C++	4	0	4	8	70	30	30	20	150	7, 31
2140706	Numerical and Statistical Methods for Computer Engineering	3	0	2	5	70	30	30	20	150	7, 31
2140707	Computer Organization	4	1	0	5	70	30	30	20	150	7, 31
2140709	Computer Networks	4	0	2	6	70	30	30	20	150	7, 31
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	7, 31
	Total	19	1	13	33						

Electrical & Electronics Engineering (08)

Subject	Subject name	Teac	hing Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2141002	Analog Circuit Design	4	0	2	6	70	30	30	20	150	8
<u>2141006</u>	Simulation and Design Tools	0	0	2	2	0	0	80	20	100	8
<u>2140910</u>	Digital Electronics	3	0	2	5	70	30	30	20	150	8
<u>2140906</u>	AC Machines	4	0	2	6	70	30	0	0	100	8
<u>2140908</u>	Electrical Power Generation	4	0	2	6	70	30	30	20	150	8
<u>2140909</u>	Field Theory	3	2	0	5	70	30	30	20	150	8
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	8
	Total	18	2	10	33						

Electrical Engineering (09)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Tutorial/	Practical	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140910	Digital Electronics	3	0	2	5	70	30	30	20	150	9
2140906	AC Machines	4	0	2	6	70	30	30	20	150	9
<u>2140907</u>	Applied Thermal and Hydraulic Engineering	3	0	0	3	70	30	0	0	100	9
2140908	Electrical Power Generation	4	0	2	6	70	30	30	20	150	9
<u>2140909</u>	Field Theory	3	2	0	5	70	30	30	20	150	9
<u>2141005</u>	Signals and Systems	3	0	2	5	70	30	30	20	150	9
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	9
	Total	20	2	8	33						

Electronics Engineering (10)

Subject	Cultinat manna	Teac	ching Scheme (Ho	ours)	C d:4	Theory	Marks	Ma	ırks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2141001</u>	Microprocessor and Interfacing	3	0	2	5	70	30	30	20	150	10
2141002	Analog Circuit Design	4	0	2	6	70	30	30	20	150	10
<u>2141003</u>	Electronics Measurement and Instruments	3	0	2	5	70	30	30	20	150	10
2141004	Control System Engineering	4	0	2	6	70	30	30	20	150	10
2141005	Signals and Systems	3	0	2	5	70	30	30	20	150	10
2141006	Simulation and Design Tools	0	0	2	2	0	0	80	20	100	10
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	10
	Total	17	0	12	32						

Electronics & Communication Engineering (11), Electronics & Telecommunication Engineering (12)

Subject	Cubicat mana	Teac	ching Scheme (Ho	ours)	Cua dita	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2141001</u>	Microprocessor and Interfacing	3	0	2	5	70	30	30	20	150	11, 12
2141002	Analog Circuit Design	4	0	2	6	70	30	30	20	150	11, 12
2141003	Electronics Measurement and Instrumentation	3	0	2	5	70	30	30	20	150	11, 12
<u>2141004</u>	Control System Engineering	4	0	2	6	70	30	30	20	150	11, 12
<u>2141005</u>	Signals and Systems	3	0	2	5	70	30	30	20	150	11, 12
<u>2141006</u>	Simulation and Design Tools	0	0	2	2	0	0	80	20	100	11, 12
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	11, 12
	Total	17	0	12	32						·

Environmental Engineering	(13),	Environmental Science	& Engineering(37)

Semester I	IV									w.e.f Jan'13	5
Subject	Cubicat mana	Teac	hing Scheme (H	ours)	Cua dita	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140003	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	13, 37
2141302	Environmental Sciences II	3	0	4	7	70	30	30	20	150	13, 37
2141305	Ecology and Remote Sensing	3	2	0	5	70	30	30	20	150	13, 37
2141306	Elements of Chemical Engg	3	2	0	5	70	30	30	20	150	13, 37
2141307	Basics of Environmental Hydraulics	3	2	0	5	70	30	30	20	150	13, 37
2141308	Environmental Resources	3	2	0	5	70	30	30	20	150	13, 37
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	13, 37
	Total	18	8	4	33						

Food Processing & Technology (14)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics & Management	3	0	0	3	70	30	0	0	100	14
<u>2141401</u>	Food Nutrition & Biochemistry	3	0	2	5	70	30	30	20	150	14
2141402	Food & Industrial Microbiology	3	0	2	5	70	30	30	20	150	14
2141403	Materials & Manufacture of Food Equipment	4	0	2	6	70	30	30	20	150	14
<u>2141406</u>	Food Engineering Transport Phenomenon	4	0	2	6	70	30	30	20	150	14
2141407	Food Drying & Dehydration	3	0	2	5	70	30	30	20	150	14
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	14
	Total	20	0	10	33						

Industrial Engineering (15)

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	15
2141901	Mechanical Measurement & Metrology	3	0	2	5	70	30	30	20	150	15
<u>2141905</u>	Complex Variables and Numerical Methods	3	2	0	5	70	30	30	20	150	15
<u>2141906</u>	Fluid Mechanics	4	0	2	6	70	30	30	20	150	15
2141907	Machine Design & Industrial Drafting	4	0	2	6	70	30	30	20	150	15
2141908	Manufacturing Processes -II	3	0	2	5	70	30	30	20	150	15
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	15
	Total	20	2	11	33	_	_				

Information Technology (16)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Cuadita	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140702	Operating System	4	0	2	6	70	30	30	20	150	16
2140705	Object Oriented Programming With C++	4	0	4	8	70	30	30	20	150	16
2140706	Numerical and Statistical Methods for Computer Engineering	3	0	2	5	70	30	30	20	150	16
2140707	Computer Organization	4	1	0	5	70	30	30	20	150	16
2140709	Computer Networks	4	0	2	6	70	30	30	20	150	16
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	16
	Total	19	1	13	33						

Instrumentation & Control Engineering (17)

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Subject	Codd on America	Teac	ching Scheme (Ho	ours)	C 1'4	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2141703	Numerical Techniques & Statistical Methods	3	2	0	5	70	30	30	20	150	17
<u>2141708</u>	Control System	4	0	2	6	70	30	30	20	150	17
2141704	Measurement & Instruments	4	0	2	6	70	30	0	0	100	17
2141705	Industrial Measurement I	3	0	2	5	70	30	30	20	150	17
<u>2141706</u>	Analog Signal Processing	4	0	2	6	70	30	30	20	150	17
2141006	Simulation and Design Tools	0	0	2	2	0	0	80	20	100	17
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	17
	Total	18	2	10	33						

Mechanical Engineering (19)

Semester IV w.e.f Jan'15

Subject	Cubicat nama	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	ırks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140003	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	19
2141901	Mechanical Measurement & Metrology	3	0	2	5	70	30	30	20	150	19
2141905	Complex Variables and Numerical Methods	3	2	0	5	70	30	30	20	150	19
<u>2141906</u>	Fluid Mechanics	4	0	2	6	70	30	30	20	150	19
2141907	Machine Design & Industrial Drafting	4	0	2	6	70	30	30	20	150	19
2141908	Manufacturing Processes -II	3	0	2	5	70	30	30	20	150	19
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	19
	Total	20	2	11	33						

Mechatronics Engineering (20)

Se	mester I	\mathbf{V}			w.e.f Jan'15	j

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	ırks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	20
<u>2141905</u>	Complex Variable and Numerical Methods	3	2	0	5	70	30	30	20	150	20
<u>2142001</u>	Kinematics & Dynamics of Machines	4	0	2	6	70	30	30	20	150	20
<u>2142003</u>	Control Theory	4	0	2	6	70	30	30	20	150	20
<u>2142004</u>	Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	20
<u>2142005</u>	Programming Methodology using C++	3	0	2	5	70	30	30	20	150	20
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	20
	Total	21	3	6	33						

Metallurgy Engineering (21)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	ırks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	21
2141907	Machine Design & Industrial Drafting	4	0	2	6	70	30	30	20	150	21
2142102	Principles of Extractive Metallurgy	4	1	0	5	70	30	30	20	150	21
2142105	Heat and Mass Transfer in Metallurgy	4	0	2	6	70	30	30	20	150	21
<u>2142106</u>	Plastic Deformation of Metals	3	1	0	4	70	30	30	20	150	21
2142107	Iron Making	4	0	2	6	70	30	30	20	150	21
2140002	Design Engineering -I B	0	0	3	3	0	0	80	20	100	21
		21	3	6	33						

Mining Engineering (22)

Semester 1	IV		8	U	3					w.e.f Jan'15	5
Subject	Subject nous	Teac	ching Scheme (Ho	ours)	Cua dita	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	22
2142201	Mining Machinery-I	4	0	2	6	70	30	30	20	150	22
2142202	Basic Mine Surveying	2	0	4	6	70	30	30	20	150	22
2142203	Geology-II	3	0	2	5	70	30	30	20	150	22
<u>2142206</u>	Surface Mine Production	3	0	2	5	70	30	30	20	150	22
2140001	Mathematics-4	3	2	0	5	70	30	30	20	150	22
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	22
	Total	18	2	10	33						

Plastic Technology (23)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	ırks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140003	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	23
2142301	Basic Plastic Processing and Thermal Engineering	3	0	3	6	70	30	30	20	150	23
2142302	Industrial Hydraulics and Pneumatics	3	0	3	6	70	30	30	20	150	23
2142303	Entrepreneurship And Creativity in Plastic Engineering	3	0	2	5	70	30	30	20	150	23
2142305	Applied Mathematics in Plastic Industry	3	2	0	5	70	30	30	20	150	23
2142306	Manufacturing of plastics Material-2	3	0	2	5	70	30	30	20	150	23
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	23
	Total	18	2	10	33						

Power Electronics (24)

Subject	Cubicat nama	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140906</u>	AC Machines	4	0	2	6	70	30	30	20	150	24
2140909	Field Theory	3	2	0	5	70	30	30	20	150	24
<u>2141005</u>	Signals and Systems	3	0	2	5	70	30	30	20	150	24
2142404	Basic Power Systems	3	0	0	3	70	30	30	20	150	24
2142405	Analog Electronics and Its Applications	4	0	2	6	70	30	30	20	150	24
2142406	Digital Electronics and its applications	3	0	2	5	70	30	30	20	150	24
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	24
	Total	20	2	8	33						

Production (25)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Marks		Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	25
<u>2141906</u>	Fluid Mechanics	4	0	2	6	70	30	30	20	150	25
<u>2142503</u>	Metrology and Measurement	3	0	2	5	70	30	30	20	150	25
2142504	Theory of Machines	3	2	0	5	70	30	30	20	150	25
<u>2142505</u>	Probability and Introduction to Statistics	3	2	0	5	70	30	30	20	150	25
<u>2142506</u>	Fundamentals of Machine Design	4	2	0	6	70	30	30	20	150	25
<u>2140002</u>	Design Engineering – I B	0	0	3	3	0	0	80	20	100	25
	Total	20	6	7	33						

Rubber Technology (26)

Semester 1	IV									w.e.f Jan'1:	5
Subject	Subject name	Teac	Teaching Scheme (Hours)			Theory Marks		Marks		Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	26
2142601	Rubber Compounding Materials	3	0	3	6	70	30	30	20	150	26
2142602	Natural Rubber Science & Technology	3	0	3	6	70	30	30	20	150	26
<u>2142603</u>	Rubber engineering	3	0	2	5	70	30	30	20	150	26
<u>2142605</u>	Latex Technology	3	0	2	5	70	30	30	20	150	26
<u>2142606</u>	Viscoelasticity of Elastomers	3	2	0	5	70	30	30	20	150	26
2140002	Design Engineering -I B	0	0	3	3	0	0	80	20	100	26
		21	3	6	33						

Textile Processing (28)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Ma	rks	Total	Branch Code
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	
2140003	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	28
2142806	Textile Manufacturing - II	3	0	2	5	70	30	30	20	150	28
2142807	Polymer Chemistry	4	0	2	6	70	30	30	20	150	28
2142808	Scouring & Bleaching - I	4	0	3	7	70	30	30	20	150	28
2142809	Chemistry of Intermediates & Dyes	4	0	0	4	70	30	0	0	100	28
1 2142810	Process Calculations in Textile Wet Processing	3	2	0	5	70	30	30	20	150	28
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	28
	Total	21	2	7	33						·

Textile Technology (29)

Subject	Cultinat name	Teac	ching Scheme (H	ours)	Cuadita	Theory	Marks	Marks		Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140003	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	29
2142901	Yarn Manufacturing - II	4	0	2	6	70	30	30	20	150	29
2142902	Weaving Technology-I	4	0	4	8	70	30	30	20	150	29
2142903	Textile Processing-II	3	0	2	5	70	30	30	20	150	29
2142904	Fibre Physics	3	0	0	3	70	30	0	0	100	29
2142905	Statistical Quality Control & Textile Costing	3	2	0	5	70	30	30	20	150	29
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	29
	Total	20	2	8	33						

Information & Communication Technology (32)

w.e.f Jan'15 Semester IV

Subject	Subject name	Teaching Scheme (Hours)			Credits	Credits Theory Marks		Tutorial/ Practical Marks		Total	Branch
code		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140702	Operating System	4	0	2	6	70	30	30	20	150	32
2140705	Object Oriented Programming With C++	4	0	4	8	70	30	30	20	150	32
2140706	Numerical and Statistical Methods for Computer Engineering	3	0	2	5	70	30	30	20	150	32
2140707	Computer Organization	4	1	0	5	70	30	30	20	150	32
2140709	Computer Networks	4	0	2	6	70	30	30	20	150	32
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	32
	Total	19	1	10	33						

Manufacturing Engineering(34)

Semester 1	IV									w.e.f Jan'13	5
Subject	Subject name	Teac	ching Scheme (H	ours)	Credits	Theory Marks		Marks		Total	Branch
code		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
2140003	Engineering Economic and Management	3	0	0	3	70	30	0	0	100	34
2142504	Theory of Machines	3	2	0	5	70	30	30	20	150	34
2143402	Metrology and Computer Aided Inspection	3	0	2	5	70	30	30	20	150	34
2141906	Fluid Mechanics	4	0	2	6	70	30	30	20	150	34
2142506	Fundamentals of Machine Design	4	2	0	6	70	30	30	20	150	34
<u>2143406</u>	Thermo Dynamics and Thermal Eng.	3	0	2	5	70	30	30	20	150	34
2140002	Design Engineering - I B	0	0	3	3	0	0	80	20	100	34

Total

Chemical Technology(36)

Semester IV w.e.f Jan'15

Subject	Subject name	Teac	ching Scheme (Ho	ours)	Credits	Theory	Marks	Marks		Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140003</u>	Engineering Economics & Management	3	0	0	3	70	30	0	0	100	36
2143607	Unit Processes in Organic Synthesis	3	0	3	6	70	30	30	20	150	36
2143608	Mechanical Operations in Chemical Process Industries	3	1	2	6	70	30	30	20	150	36
<u>2143606</u>	Advanced Organic Chemistry for Technologists	3	0	3	6	70	30	30	20	150	36
<u>2143609</u>	Industrial Pollution & Control	3	0	2	5	70	30	30	20	150	36
	Department Elective-II	4	0	0	4	70	30	0	0	100	36
<u>2140002</u>	Design Engineering - I B	0	0	3	3	0	0	80	20	100	36
	Total	19	1	10	33						

	Department Elective- II											
Code	Name of the subject											
<u>2143601</u>	Medicinal Chemistry & Physio-pharmacology											
<u>2143602</u>	Rubber Chemistry & Natural Polymers											
<u>2143603</u>	Introduction to Glass & Ceramic Technology-I											
2143604	Chemistry of Intermediates & Colorants-II											

Nano Technology (39)

										w.c.i Jan I.	,
Subject	Cubicat name	Teac	ching Scheme (H	ours)	Credits	Theory Marks		Tutorial/ Practical		Total	Branch
code	Subject name	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Marks	Code
<u>2140001</u>	Mathematics-4	3	2	0	5	70	30	30	20	150	39
<u>2140003</u>	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	39
<u>2143902</u>	Physics of Nanomaterials	3	0	0	3	70	30	0	0	100	39
<u>2143903</u>	Elements of Material Science	3	0	2	5	70	30	30	20	150	39
<u>2143904</u>	Synthesis of Nanomaterials-II	2	0	6	8	70	30	30	20	150	39
<u>2143905</u>	Characterization of Nanomaterials-II	2	0	4	6	70	30	30	20	150	39
<u>2140002</u>	Design Engineering - I B	0	0	3	3	0	0	80	20	100	39
	Total	16	2	12	33						·