

Prog.Structure Bachelor of Technology-Civil (2012-16)

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121301CE	Engineering Mathematics III	ID	3	2	0	0	0	40	60	4	100
070121302CE	Solid Mechanics	C	3	2	0	0	0	40	60	4	100
070121303CE	Fluid Mechanics I	C	3	2	0	0	0	40	60	4	100
070121304CE	Surveying I	C	3	0	0	0	0	30	45	3	75
070121305CE	Building Construction & Materials	C	3	0	0	0	0	30	45	3	75
070121306CE	Engineering Geology	C	3	0	0	0	0	30	45	3	75
070121307CE	Solid Mechanics Lab	C	0	0	2	10	15	0	0	1	25
070121308CE	Fluid Mechanics I Lab	C	0	0	2	10	15	0	0	1	25
070121309CE	Surveying I Lab	C	0	0	2	10	15	0	0	1	25
070121310CE	Building Construction & Materials Lab	C	0	0	2	10	15	0	0	1	25
070121311CE	Engineering Geology Lab	C	0	0	2	10	15	0	0	1	25
		Total	18	6	10	50	75	210	315	26	650

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

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Semester IV											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121401CE	Structural Analysis-I	C	3	2	0	0	0	40	60	4	100
070121402CE	Building Design & Drawing	C	3	2	0	0	0	40	60	4	100
070121403CE	Fluid Mechanics II	C	3	2	0	0	0	40	60	4	100
070121404CE	Surveying-II	C	4	0	0	0	0	40	60	4	100
070121405CE	Concrete Technology	C	4	0	0	0	0	40	60	4	100
070121406CE	Industrial Management	ID	3	0	0	0	0	30	45	3	75
070121407CE	Building Design & Drawing Lab	C	0	0	2	10	15	0	0	1	25
070121408CE	Fluid Mechanics II Lab	C	0	0	2	10	15	0	0	1	25
070121409CE	Surveying-II Lab	C	0	0	2	10	15	0	0	1	25
070121410CE	Concrete Technology Lab	C	0	0	2	10	15	0	0	1	25
070121411CE	Integrated Disaster Management	GP	3#	0	0	0	0	75#	0	3#	75#
		Total	20	6	8	40	60	230	345	27	675

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

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Semester V											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121501CE	Structural Analysis-II	C	3	2	0	0	0	40	60	4	100
070121502CE	Transportation Engineering-I	C	3	2	0	0	0	40	60	4	100
070121503CE	Water Resources Engineering –I	C	4	0	0	0	0	40	60	4	100
070121504CE	Water Supply Engineering	C	3	0	0	0	0	30	45	3	75
070121505CE	Structural Design-I	C	3	2	0	0	0	40	60	4	100
070121506CE	Total Quality Management	ID	3	0	0	0	0	30	45	3	75
070121507CE	Structural Analysis-II Lab	C	0	0	2	10	15	0	0	1	25
070121508CE	Water Supply Engineering Lab	C	0	0	2	10	15	0	0	1	25
070121509CE	Structural Design-I Lab	C	0	0	2	10	15	0	0	1	25
070121510-21CE	Free Elective	ID	3	0	0	0	0	30	45	3	75
Total			22	6	6	30	45	250	375	28	700

Free Electives (choose any one)	
Subject code	Subject
070121510CE	Geographic Information Systems
070121511CE	Earthquake Engineering
070121512CE	Java
070121513CE	Open Source Technologies
070121514CE	Database Management Systems
070121515CE	MATLAB
070121516CE	Printed Circuit Board (PCB) Design
070121517CE	Fundamentals of Automotive Technology
070121518CE	Six Sigma
070121519CE	Nanotechnology
070121520CE	Smart Materials
070121521CE	Introduction to Statistical Product and Service Solutions (SPSS)

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

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Semester VI											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121601CE	Waste Water Engineering	C	3	2	0	0	0	40	60	4	100
070121602CE	Soil Mechanics	C	3	2	0	0	0	40	60	4	100
070121603CE	Construction Techniques & Management	C	3	2	0	0	0	40	60	4	100
070121604CE	Structural Design-II	C	3	2	0	0	0	40	60	4	100
070121605CE	Transportation Engineering - II	C	3	0	0	0	0	30	45	3	75
070121606CE	Water Resources Engineering –II	C	3	0	0	0	0	30	45	3	75
070121607CE	Waste Water Engineering Lab	C	0	0	2	10	15	0	0	1	25
070121608CE	Soil Mechanics Lab	C	0	0	2	10	15	0	0	1	25
070121609CE	Structural Design-II Lab	C	0	0	2	10	15	0	0	1	25
070121610CE	Transportation Engineering – II Lab	C	0	0	2	10	15	0	0	1	25
		Total	18	8	8	40	60	220	330	26	650

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

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Semester VII (Project Semester)											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical	CA	ESE			
Group A						Int	Ext				
070121701CE	Internship (6 Months)	C	0	0	0	0	0	400	0	16	400
OR											
070121726CE	Global Immersion Programme	C	-	-	-	-	-	-	-	-	-
070121702CE	Seminar	C	0	0	0	0	0	100	0	4	100
		Total	0	0	0	0	0	500	0	20	500
OR											
Group B											
070121703CE	Project	PD	0	0	8	0	0	100	0	4	100
070121704CE	Internship(6-8 Weeks)	PD	0	0	8	0	0	100	0	4	100
070121705-22 CE	Liberal Arts	PD	2	0	0	0	0	50	0	2	50
070121723CE	Service Learning	PD	2	0	0	0	0	50	0	2	50
070121724CE	Water Power Engineering	C	3	2	0	0	0	40	60	4	100
070121725CE	Earth structures	C	3	2	0	0	0	40	60	4	100
		Total	10	4	16	0	0	380	120	20	500

Liberal Arts (Choose Any One)	
070121705CE	Technical Writing
070121706CE	Creative Writing
070121707CE	Principles of Economics
070121708CE	Intellectual Property Rights (IPR)
070121709CE	Cyber Law
070121710CE	Creativity and Innovations
070121711CE	Society & Science
070121712CE	Sustainability Studies
070121713CE	Environmental Awareness: Only One Earth
070121714CE	Impact of Science & Technology on Human Civilization
070121715CE	Women and Gender Studies
070121716CE	Organizational Behavior
070121717CE	Quantitative Reasoning: Mathematics
070121718CE	Photography
070121719CE	German
070121720CE	French
070121721CE	Chinese
070121722CE	Philosophy

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

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Semester VIII											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121801CE	Project	PD	0	0	8	40	60	0	0	4	100
070121802CE	Foundation Engineering	C	3	2	0	0	0	40	60	4	100
070121803CE	Structural Design - III	C	3	2	0	0	0	40	60	4	100
070121804CE	Quantity Surveying and Valuation	C	3	0	0	0	0	30	45	3	75
070121805CE	Entrepreneurship	PD	2	0	0	0	0	50	0	2	50
070121806-8CE	Elective-I	C	3	0	0	0	0	30	45	3	75
070121809-12CE	Elective-II	C	3	0	0	0	0	30	45	3	75
070121813CE	Structural Design – III Lab	C	0	0	2	10	15	0	0	1	25
070121814CE	Quantity Surveying and Valuation Lab	C	0	0	2	10	15	0	0	1	25
Total			17	4	12	60	90	220	255	25	625

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

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Electives for Semester VIII (choose any one)											
Subject Code	Elective – I	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical Int	Ext	CA			ESE
070121806CE	Industrial waste Treatment	C	3	0	0	0	0	30	45	3	75
070121807CE	Design of Hydraulic Structures	C	3	0	0	0	0	30	45	3	75
070121808CE	Systems Approach in Civil Engineering	C	3	0	0	0	0	30	45	3	75

Electives for Semester VIII (choose any one)											
Subject Code	Elective – II	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical Int	Ext	CA			ESE
070121809CE	Advanced Design of RCC Structures	C	3	0	0	0	0	30	45	3	75
070121810CE	AdvanceWater Treatment	C	3	0	0	0	0	30	45	3	75
070121811CE	Project Planning	C	3	0	0	0	0	30	45	3	75
070121812CE	Pavement Design & Construction	C	3	0	0	0	0	30	45	3	75

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self study/assignments.

L- Lecture , T-Tutorial, HA-Home Assignment

C - Core Subject

ES - Engineering Science Subject

GP - General Proficiency Subject

ID - Inter Disciplinary Subject

PD - Professional Development Subject

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Int- Internal (Practical)

Ext- External (Practical)

Practical external examination may be conducted by alternate internal faculty

- Credits Over & above 200