Integrated B.Tech. + M.Tech./MBA (Civil Engineering) Programme with CBCS

Sr. No.	Subject Code	SEMESTER-I Courses	L-T-P	Credits	
		THEORY			
1	PH102	Engineering Physics	3-1-0	4	C1
2	MA101	Engineering Mathematics - I	3-1-0	4	C2
3	ME101	Engineering Mechanics	2-1-0	3	C3
4	CS101	Computer Programming - I	2-1-0	3	SEC1
5	EE102	Electrical Technology	2-1-0	3	C4
6	EN101	English Proficiency	2-0-0	2	AECC1
7		OPEN ELECTIVE 1	2-0-0	2	OE1
		PRACTICALS			
8	PH104	Engineering Physics Lab	0-0-2	1	C5
9	ME102	Engineering Workshop	0-0-3	2	C6
10	CS181	Computer Programming Lab-I	0-0-2	1	SEC2
11	EE104	Electrical Technology Lab	0-0-2	1	C7
12	GP	General Proficiency	-	Non Credit	
		Total	16-3-10	25	
		Total Contact Hours		29	

Skill Enhancement Course (SEC):

1. CS101 Computer Programming-I

2. CS181 Computer Programming Lab-I

Ability Enhancement Compulsory Course (AECC):

1. EN101 English Proficiency

Open Elective I (OE I)

    -Courses offered from other schools

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Sr. No.	Subject Code	Courses	L-T-P	Credits	
		SEMESTER – II			
			L-T-P	Credits	
		THEORY			
1	CY101	Engineering Chemistry	3-1-0	4	C8
2	MA102	Engineering Mathematics - II	3-1-0	4	C9
3	ES101	Environmental Studies	2-1-0	3	AECC2
4	CS102	Computer Programming - II	2-0-0		SEC3
5	EC101	Basic Electronics	2-1-0		C10
6	EN102	Professional Communication	2-0-0	2	AECC3
7	BS101	Human Values & Buddhist Ethics	2-0-0	2	AECC4
		PRACTICALS			
8	CY103	Engineering Chemistry Lab	0-0-2	1	C11
9	EC181	Basic Electronics Lab	0-0-2	1	C12
10	CE103	Engineering Graphics	0-0-3	2	C13
11	CS182	Computer Programming Lab -II	0-0-2		SEC4
11	GP	General Proficiency	-	Non Credit	
		Total	16-3-10	25	
		Total Contact Hours		29	

Skill Enhancement Course (SEC):

1. CS102 Computer Programming - II

2. ME102 Workshop Practices

3. CS182 Computer Programming Lab -II

Ability Enhancement Compulsory Course (AECC):

1. ES101 Environmental Studies

2. EN 102 Professional Communication

3. BS101 Human Values & Buddhist Ethics

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Sr. No.	Subject Code	Courses	L-T-P	Credits	
		SEMESTER-III			
		THEORY			
1	MA 201	Engineering Mathematics - III	3-1-0	4	C14
2		GENERIC ELECTIVE I	2-0-0	2	GE1
3	CE203	Hydraulics	3-1-0	4	C15
4	CE205	Mechanics of Materials	3-1-0	4	C16
5	CE207	Surveying-I	2-1-0	3	C17
6		OPEN ELECTIVE II	3-0-0	3	OEII
		PRACTICALS			
7	CE209	Hydraulics Lab	0-0-2	1	C18
8	CE211	Material Testing Lab	0-0-2	1	C19
9	CE213	Surveying Lab - I	0-0-3	2	C20
10	GP	General Proficiency	-	Non Credit	
		Total	16-4-7	24	
		Total Contact Hour	27		

Generic Elective I

1. CE 215 Engineering Geology
2. ME 201 Material Science

Open Elective II

Courses offered from other schools

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SEMESTER - IV					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		THEORY			
1	MA 202	Quantitative Techniques *Analysis Numerical and Statistical*	3-1-0	4	C21
2	CE 202	Building Materials & Construction	3-0-0	3	C22
4	CE204	Environmental Engineering - I	3-1-0	4	C23
5	CE206	Structural Analysis - I	3-1-0	4	C24
6	CE208	Surveying II	3-1-0	4	C25
		PRACTICALS			
7	CE210	Environmental Engineering Lab	0-0-3	2	C26
8	CE212	Surveying Lab - II	0-0-3	2	C27
9	GP	General Proficiency	-	Non Credit	
		Total	15-4-6	23	
		Total Contact Hour	25		

SEMESTER – V					
Sr. No	Subject Code	Courses	L-T-P	Credits	
		THEORY			
1		GENERIC ELECTIVE II	2-0-0	2	GEII
2	CE301	R. C. Structure - I	3-1-0	4	C28
3	CE303	Transportation Engineering – I	3-0-0	3	C29
4	CE305	Environmental Engineering – II	3-1-0	4	C30
5	CE307	Engineering Hydrology	3-1-0	4	C31
6	CE309	Structural Analysis - II	3-1-0	4	C32
		PRACTICALS			
7	CE313	Concrete Lab	0-0-3	2	C33
8	CE315	Transportation Lab	0-0-2	1	C34
9	CE317	Building Design & Drawing	0-0-2	1	C35
10	GP	General Proficiency		Non Credit	
		Total	17-4-7	25	
		Total Contact Hours	28		

Generic Elective II

CE311: Engineering Economics

CS311: E Commerce

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Sr. No.	Subject Code	Courses	L-T-P	Credits	
		SEMESTER - VI			
		THEORY			
1	CE318	Disaster Management	2-0-0	2	C36
2	CE302	R. C. Structure - II	3-1-0	4	C37
3	CE304	Soil Mechanics	3-1-0	4	C38
4	CE306	Transportation Engineering - II	3-0-0	3	C39
5	CE308	Irrigation Engineering	3-1-0	4	C40
6	CE310	Steel Structures	3-1-0	4	C41
		PRACTICALS			
7	CE312	Soil Mechanics Lab	0-0-2	1	C42
8	CE314	Design Lab	0-0-2	1	C43
9	CE316	CAD Lab - I	0-0-2	1	C44
10	GP	General Proficiency		Non Credit	
		Total	17-4-6	24	
		Total Contact Hours	27		

Integrated B.Tech. + M.Tech./MBA (Civil Engineering) Programme with CBCS

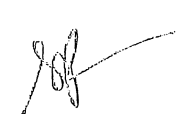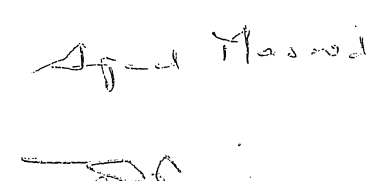| Sr. No.	Subject Code	Courses	L-T-P	Credits	
		SEMESTER – VII– Structural Engineering			
		THEORY			
1		Generic Elective III	3-1-0	4	GEIII
2	CE403	Construction, Planning and Management	3-0-0	3	C45
3	CE401	Foundation Engineering	3-1-0	4	C46
4	CE421	Estimating and Costing	2-1-0	3	C47
5		Elective – I	2-1-0	3	DSE1
6		Elective – II	2-1-0	3	DSE2
		PRACTICALS			
7	CE425	Seminar	0-0-3	2	SEC5
8	GP	General Proficiency	-	Non Credit	
		Total	16-4-3	22	
		Total Contact Hours	23		

Elective – I (DSE 1)

- CE547: Finite Element Method
- CE549: Solid Mechanics

Elective – II (DSE 2)

- CE545: Structural Dynamics
- CE551: Advanced Soil Mechanics and Foundation

Generic Elective (GEIII)

1. MA406 Operation Research
2. MA507 Optimization Techniques
3. MA402 Modeling and Simulation

Integrated B.Tech. + M.Tech./MBA (Civil Engineering) Programme with CBCS

Sr. No.	Subject Code	Courses	L-T-P	Credits	
		SEMESTER – VIII– Structural Engineering			
		THEORY			
1	CE542	Prestressed Concrete	3-1-0	4	C48
2	CE544	Advanced Structural Analysis	2-1-0	3	C49
3	CE546	Advanced Concrete Design	3-1-0	4	C50
4	CE548	Bridge Design	3-1-0	4	C51
5		Specialization Elective - I	3-1-0	4	DSE3
		PRACTICALS			
6	CE556	Structural Analysis Lab – I	0-0-3	2	C52
7	CE516	Project	0-0-10	5	DP1
8	GP	General Proficiency	-	Non Credit	
		Total	14-5-13	26	
		Total Contact Hours	32		

Specialization Elective I (DSE 3)

- CE552: Design of Tall Buildings
- CE554: Earthquake Resistant Design of Structures

Sr. No.	Subject Code	Courses	Credits	
		SUMMER SEMESTER (After VIIIth Semester)		
1	CE 600	Summer Project/ Industrial Training (4- 6 Weeks)	5	DP2

Integrated B.Tech. + M.Tech./MBA (Civil Engineering) Programme with CBCS

		SEMESTER – IX– Structural Engineering			
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		THEORY			
1	CE641	Plates and Shells	2-1-0	3	C53
2	CE643	Advanced Steel Design	3-1-0	4	C54
3		Specialization Elective - II	3-1-0	4	DSE4
		PRACTICALS			
4	CE617	Dissertation Part -I	2* -0-16	8	DP3
5	GP	General Proficiency	-	Non Credit	
		Total	8-3-16	19	
		Total Contact Hours	27		

*** *This will not be a usual lecture session, but this is one to one interaction of each student with the concerned faculty member*

Specialization Elective II (DSE 4)

- CE645: Building Services
- CE647: Hydraulic Structures
- CE649: Rock Mechanics and Tunneling

		SEMESTER – X(Batch 2011onwards) – Structural Engineering			
Sr. No.	Subject Code	Courses	L-T-P	Credits	
1	CE620	Dissertation Part - II	…….	22	DP4
2	GP	General Proficiency	-	Non Credit	
		Total	……	22	

Total Credits = 240