

## 02 Yr M.Tech. Programme (Structural Engineering) with CBCS

SEMESTER-I					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<b>THEORY</b>			
1		Generic Elective	3-1-0	4	GE1
2	CE541	Advanced Construction Materials	2-1-0	3	C1
3	CE543	Applied Elasticity and Plasticity	2-1-0	3	C2
4	CE545	Structural Dynamics	2-1-0	3	C3
5		Elective - 1	2-1-0	3	DSE1
6		Open Elective I	3-0-0	3	OEI
		<b>PRACTICALS</b>			
7	CE553	CAD Lab	0-0-3	2	C4
8	CE511	Seminar	0-0-3	2	SEC1
9	GP	General Proficiency	-	Non Credit	
		<b>Total</b>	<b>12-5-5</b>	<b>23</b>	
		<b>Total Contact Hours</b>	<b>22</b>		

## Elective - I

1. CE 547: Finite Element Method
2. CE 549: Solid Mechanics

## Generic Elective (GE1)

1. MA 406 Operation Research
2. MA 507 Optimization Techniques
3. MA 402 Modeling and Simulation

## Open Elective I

Courses offered from other schools

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SEMESTER-II(Batch 2015 onwards)					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<u>THEORY</u>			
1	CE542	Prestressed Concrete	3-1-0	4	C5
2	CE544	Advanced Structural Analysis	2-1-0	3	C6
3	CE546	Advanced Concrete Design	3-1-0	4	C7
4	CE548	Bridge Design	3-1-0	4	C8
5		Specialization Elective - I	3-1-0	4	DSE2
		<u>PRACTICALS</u>			
6	CE556	Structural Analysis Lab – I	0-0-3	2	C9
7	CE516	Project	0-0-10	5	DP1
8	GP	General Proficiency	-	Non Credit	
		Total	12-5-13	26	
		Total Contact Hours	30		

## Specialization Elective I (DSE 2)

- o CE 552: Design of Tall Buildings
- o CE 554: Earthquake Resistant Design of Structures

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SEMESTER-III					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
<u>THEORY</u>					
1	CE641	Plates and Shells	2-1-0	3	C10
2	CE643	Advanced Steel Design	3-1-0	4	C11
3		Specialization Elective - II	3-1-0	4	DSE3
<u>PRACTICALE</u>					
4	CE617	Dissertation Part - I	2* -0-16	8	DP2
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 one is one to one interaction of each student with the concerned faculty member

## Specialization Elective II(DSE 3)

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

SEMESTER-IV					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
<u>THEORY</u>					
1	CE620	Dissertation Part - II		22	DP3
2	GP	General Proficiency	-	Non Credit	
Total				22	
Total Contact Hours			-		

Grand Total Credits: 90



  
