

### Master in Civil Engineering (Structural)

Prog	CCMT Code	Group	Sem	code	Course Title	L	T	P	Credits	FM
CEPG	CESE	Core	1	CE601	Advanced Structural Analysis	3	0	0	3	100
CEPG	CESE	Core	1	CE602	Theory of Elasticity and Plasticity	3	0	0	3	100
CEPG	CESE	EL-1	1	CE6xx	Elective – I	3	0	0	3	100
CEPG	CESE	EL-2	1	CE6xx	Elective – II	3	0	0	3	100
<b>CEPG</b>	<b>CESE</b>	<b>EL-3</b>	<b>1</b>	<b>CE6xx</b>	<b>Elective – III / Open Elective</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>100</b>
CEPG	CESE	Lab	1	CE681	Advanced Civil Engineering Lab -I	0	0	6	4	100
CEPG	CESE		1		<b>Total Semester Credit</b>	<b>15</b>		<b>6</b>	<b>19</b>	<b>600</b>
CEPG	CESE	Core	2	CE603	Advanced Design of Concrete and Steel Structures	3	0	0	3	100
CEPG	CESE	EL-4	2	CE6xx	Elective – IV	3	0	0	3	100
CEPG	CESE	EL-5	2	CE6xx	Elective – V	3	0	0	3	100
CEPG	CESE	EL-6	2	CE6xx	Elective – VI	3	0	0	3	100
<b>CEPG</b>	<b>CESE</b>	<b>EL-7</b>	<b>2</b>	<b>CE6xx</b>	<b>Elective – VII / Open Elective</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>100</b>
CEPG	CESE	Lab	2	CE690	Seminar	0	0	3	2	100
CEPG	CESE	Lab	2	CE686	Advanced Civil Engineering Lab - II	0	0	6	4	100
CEPG	CESE		2		<b>Total Semester Credit</b>	<b>15</b>		<b>9</b>	<b>21</b>	<b>700</b>
CEPG	CESE	Lab	3	CE691	Seminar and Comprehensive Viva - I	0	0	3	2	100
CEPG	CESE	Lab	3	CE692	Dissertation (to be continued in 4 <sup>th</sup> Sem)	0	0	12	8	100
CEPG	CESE		3		<b>Total Semester Credit</b>			<b>15</b>	<b>10</b>	<b>200</b>
CEPG	CESE	Lab	4	CE693	Seminar and Comprehensive Viva - II	0	0	3	2	100
CEPG	CESE	Lab	4	CE694	Dissertation	0	0	15	10	100
CEPG	CESE		4		<b>Total Semester Credit</b>			<b>18</b>	<b>12</b>	<b>200</b>
CEPG	CESE				<b>Cumulative Total Credit</b>				<b>62</b>	<b>1700</b>
<b>List of Electives</b>										
CEPG	CESU	EL-x		CE604	Advanced Concrete Technology	3	0	0	3	100
CEPG	CESU	EL-x		CE605	Prestressed Concrete Structure	3	0	0	3	100
CEPG	CESU	EL-x		CE606	Bridge Engineering	3	0	0	3	100
CEPG	CESU	EL-x		CE607	Theory of Plates and Shells	3	0	0	3	100
CEPG	CESU	EL-x		CE608	Structural Stability	3	0	0	3	100
CEPG	CESU	EL-x		CE609	Earthquake Resistant Design of Structures	3	0	0	3	100
CEPG	CESU	EL-x		CE610	Finite Element Method	3	0	0	3	100
CEPG	CESU	EL-x		CE611	Structural Dynamics	3	0	0	3	100
CEPG	CESU	EL-x		CE612	Construction Technology and Management	3	0	0	3	100
CEPG	CESU	EL-x		CE613	Mechanics of Composite Materials	3	0	0	3	100
CEPG	CESU	EL-x		CE614	Reliability Engineering	3	0	0	3	100
CEPG	CESU	EL-x		CE615	Fracture Mechanics	3	0	0	3	100
CEPG	CESU	EL-x		CE616	Structural Health Monitoring	3	0	0	3	100
CEPG	CESU	EL-x		CE617	Optimization Techniques in Civil Engineering	3	0	0	3	100
CEPG	CESU	EL-x		CE618	Fuzzy Logic and Artificial Intelligence in Civil Engineering Applications	3	0	0	3	100
CEPG	CESU	EL-x		CE619	Computational Plasticity	3	0	0	3	100

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CEPG	CESU	EL-x		CE620	Advanced Finite Element Method	3	0	0	3	100
CEPG	CETE	EL-x		MA604	Probability and Statistics	3	0	0	3	100