



# UNIVERSITY COLLEGE OF ENGINEERING

**Rajasthan Technical University, Kota**

[Akeigarh, Rawatbhata Road, KOTA-324010]

## M.Tech. (Structural Engineering)

Full Time, Self Financed 4 Semester Course of Civil Engineering Department

### Teaching Scheme

<b>FIRST SEMESTER</b>		Teaching Hrs/ week		Examination scheme		
Subject Code	Subject/ credit	L	T/ P	Max. Marks		Total marks
				IA	Exam.	
1MSE1	Design of Concrete Structures	3	1	25	100	125
1MSE2	Design of Steel Structures	3	1	25	100	125
1MSE3	Advanced Structural Analysis	3	1	25	100	125
1MSE4	Numerical Methods & Analysis	3	-	25	100	125
1MSE5	Computer Aided Design Lab	-	3	60	40	100
<b>TOTAL</b>		<b>12</b>	<b>6</b>	<b>160</b>	<b>440</b>	<b>600</b>
<b>SECOND SEMESTER</b>		Teaching Hrs/ week		Examination scheme		
2MSE1	Structural Dynamics	3	1	25	100	125
2MSE2	Theory of Elasticity and Plasticity	3	1	25	100	125
2MSE3	Advanced Concrete Technology	3	1	25	100	125
2MSE4	Elective-I 2MSE4.1 Advanced Strength of Materials 2MSE4.2 Theory of Plates & Shells 2MSE4.3 Repair & Rehabilitation of Structures	3	-	25	100	125
2MSE5	Material Testing, Experimental Methods & Quality Control	-	3	60	40	100
<b>TOTAL</b>		<b>12</b>	<b>6</b>	<b>160</b>	<b>440</b>	<b>600</b>



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<b>THIRD SEMESTER</b>		Teaching Hrs/ week		Examination scheme		
Subject Code	Subject	L	T/ P	Max. Marks		Total marks
				IA	Exam.	
3MSE1	Finite Element Methods	3	1	25	100	125
3MSE2	Elective-II 3MSE3.1 Earthquake Engineering 3MSE3.2 Bridge Engineering 3MSE3.3 Advanced Foundation Design	3	1	25	100	125
3MSE3	Seminar	-	3	150	-	150
3MSE4	Dissertation Part-I	-	4	100	-	100
<b>TOTAL</b>		<b>6</b>	<b>9</b>	<b>300</b>	<b>200</b>	<b>500</b>
<b>FOURTH SEMESTER</b>		Teaching Hrs/ week		Examination scheme		
Subject Code	Subject	L	T/ P	Max. Marks		Total marks
				IA	Exam.	
4MSE1	Dissertation Part-II	-	16	200	300	500
<b>TOTAL</b>		<b>-</b>	<b>16</b>	<b>200</b>	<b>300</b>	<b>500</b>
<b>GRAND TOTAL</b>				<b>820</b>	<b>1380</b>	<b>2200</b>

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