

**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL**  
**DEPARTMENT OF CIVIL ENGINEERING**  
Scheme of Instruction and Evaluation for Two-Year Postgraduate Programme  
**M.TECH (STRUCTURAL & CONSTRUCTION ENGINEERING)**

**SEMESTER - I**

Course Code	Course Name	Periods/Week		Credits	Scheme of Evaluation				
		L	P		CIE			ESE	Total Marks
					TA	MSE	Total		
P14SC101	Numerical and Statistical Methods	3	1	4	15	25	40	60	100
P14SC102	Limit Analysis of Reinforced Concrete Structures	3	1	4	15	25	40	60	100
P14SC103	Construction Planning and Management	3	1	4	15	25	40	60	100
P14SC104	Structural Dynamics	3	1	4	15	25	40	60	100
P14SC105	Elective - I	3	1	4	15	25	40	60	100
P14SC106	Elective - II	3	1	4	15	25	40	60	100
P14SC107	Advanced Concrete Technology Lab	-	3	2	40	-	40	60	100
P14SC108	Computer Aided Design Laboratory	-	3	2	40	-	40	60	100
P14SC109	Seminar	-	3	2	100	-	100	-	100
<b>Total</b>		<b>18</b>	<b>15</b>	<b>30</b>	<b>270</b>	<b>150</b>	<b>420</b>	<b>480</b>	<b>900</b>

**Elective - I**

P14SC105A. Advanced Analysis of Structures  
P14SC105B. Repair and Rehabilitation of Structures  
P14SC105C. Composite Construction Materials  
P14SC105D. Pavement Analysis and Design

**Elective - II**

P14SC106A. Advanced Concrete Technology  
P14SC106B. Structural Health Monitoring  
P14SC106C. Building services and maintenance Management  
P14SC106D. Machine Foundation

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**SEMESTER - II**

Course Code	Course Name	Periods/Week		Credits	Scheme of Evaluation				
		L	P		CIE			ESE	Total Marks
					TA	MSE	Total		
P14SC201	Theory of Elasticity	3	1	4	15	25	40	60	100
P14SC202	Finite Element Method	3	1	4	15	25	40	60	100
P14SC203	Design Of Concrete Bridges	3	1	4	15	25	40	60	100
P14SC204	Construction Techniques& Equipment	3	1	4	15	25	40	60	100
P14SC205	Elective - III	3	1	4	15	25	40	60	100
P14SC206	Elective - IV	3	1	4	15	25	40	60	100
P14SC207	Design Project Laboratory	-	3	2	40	-	40	60	100
P14SC208	Structural Engineering Laboratory	-	3	2	40	-	40	60	100
P14SC209	Comprehensive Viva-Voce	-	-	2	-	-	-	100	100
<b>Total</b>		<b>18</b>	<b>12</b>	<b>30</b>	<b>170</b>	<b>150</b>	<b>320</b>	<b>580</b>	<b>900</b>

**Elective - III**

P14SC205A. Earthquake Resistant Design of RCC Structures  
 P14SC205B. Management Information System  
 P14SC205C. Legal Issues in Construction  
 P14SC205D. Embankment construction

**Elective - IV**

P14SC 206A. Quality and Safety Management  
 P14SC 206B. Construction contracts Management  
 P14SC 206C. Design of Special Structures  
 P14SC 206D. Theory of Plates and Shells

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**SEMESTER - III**

Course Code	Course Name	Period	Credits	Scheme of Evaluation				
				CIE			ESE	TOTAL MARKS
				TA	MSE	TOTAL		
P14SC 301	Industrial Training	8 Weeks	4	100		100	-	100
P14SC 302	Dissertation	16Weeks	8	100	-	100	-	100
		<b>Total</b>	<b>12</b>	<b>200</b>	<b>-</b>	<b>200</b>	<b>-</b>	<b>200</b>

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**SEMESTER - IV**

Course Code	Course Name	Period	Credits	Scheme of Evaluation				
				CIE			ESE	TOTAL MARKS
				TA	MSE	TOTAL		
P14SC 401	Dissertation	24 Weeks	12	40	-	40	60	100
<b>Total</b>		<b>24</b>	<b>12</b>	<b>40</b>	<b>-</b>	<b>40</b>	<b>60</b>	<b>100</b>