



# ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

## M.Tech. Scheme of Examination & Syllabus 2026-27

### STRUCTURAL ENGINEERING

#### SEMESTER I

Sr. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks			
				L	T	P		Continual Assessment	End Sem Examination	Minimum Passing Marks	Total
1	PCC	26SE101T	Matrix Analysis of Structure	4	-	-	4	40	60	50	100
2	PCC	26SE101P	Matrix Analysis of Structure Lab	-	-	4	2	25	25	25	50
3	PCC	26SE102T	Earthquake and wind effects on Structures	4	-	-	4	40	60	50	100
4	PCC	26SE103T	Foundation Design	4	-	-	4	40	60	50	100
5	PCC	26SE104T	Advanced Concrete Structures	4	-	-	4	40	60	50	100
6	PCC	26SE104P	Advanced Concrete Structures Lab	-	-	4	2	25	25	25	50
7	PEC	26SE105T	Program Elective - I (Refer PE Basket)	4	-	-	4	40	60	50	100
<b>Total</b>				<b>20</b>	<b>0</b>	<b>8</b>	<b>24</b>	<b>250</b>	<b>350</b>	<b>-</b>	<b>600</b>

		July 2026	2.0	Applicable for 2026-27
Chairman - BoS	Dean – Academics	Date of Release	Version	



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### M.Tech. Scheme of Examination & Syllabus 2026-27

#### STRUCTURAL ENGINEERING

Semester	Hours per Week			Credits	Maximum Marks		
	L	T	P		Continual Assessment	End Sem Examination	Total
First Semester	20	-	8	24	250	350	600
Second Semester	20	-	8	24	250	350	600
Third Semester	8	-	16	16	130	170	300
Fourth Semester	-	-	32	16	100	100	200
<b>Total</b>	<b>48</b>	<b>-</b>	<b>64</b>	<b>80</b>	<b>730</b>	<b>970</b>	<b>1700</b>

#### Basket for Program Elective

Semester	Course Category	Course Code	Name of Course	Credits
I	PEC	26SE105T(i) 26SE105T(ii) 26SE105T(iii)	Theory of Elasticity & Elastic Stability Advanced Steel Structures Design of Environmental Structures	4
II	PEC	26SE205T(i) 26SE205T(ii) 26SE205T(iii)	Design of High Rise Structures Bridge Engineering Advanced Earthquake Design	4
III	PEC	26SE301T(i) 26SE301T(ii) 26SE301T(iii)	Advanced Foundation Design Structural Health Monitoring Retrofitting and Rehabilitation of Structures	4
III	PEC	26SE302T(i) 26SE302T(ii) 26SE302T(iii)	Sustainable Construction and Demolition Engineering Theory of Plates and Shells Smart Structures and Application	4

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