



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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

M.Tech. Scheme of Examination & Syllabus 2025-26

STRUCTURAL ENGINEERING

SEMESTER III

| 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 | PEC | 25SE301T | Program Elective - III (Refer PE Basket) | 4 | - | - | 4 | 40 | 60 | 50 | 100 |
| 2 | PEC | 25SE302T | Program Elective - IV (Refer PE Basket) | 4 | - | - | 4 | 40 | 60 | 50 | 100 |
| 3 | PROJ | 25SE303P | Project Phase - I | - | - | 16 | 8 | 100 | 100 | 100 | 200 |
| Total | | | | 8 | - | 16 | 16 | 180 | 220 | - | 400 |

| | | | | |
|----------------|------------------|-----------------|---------|---------------------------|
| | | July 2026 | 1.0 | Applicable for 2026-27 |
| Chairman - BoS | Dean – Academics | Date of Release | Version | |



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STRUCTURAL ENGINEERING

SEMESTER IV

| 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 | PROJ | 25SE401P | Project Phase – II OR Project based Internship | - | - | 32 | 16 | 300 | 100 | 200 | 400 |
| Total | | | | 8 | - | 16 | - | 300 | 100 | 200 | 400 |

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M.Tech. Scheme of Examination & Syllabus 2025-26

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 |
| Total | 48 | - | 64 | 80 | 730 | 970 | 1700 |

Basket for Program Elective

| Semester | Course Category | Course Code | Name of Course | Credits |
|----------|-----------------|---------------|---|---------|
| I | PEC | 25SE105T(i) | Theory of Elasticity & Elastic Stability | 4 |
| | | 25SE105T(ii) | Advanced Steel Structures | |
| | | 25SE105T(iii) | Design of Environmental Structures | |
| II | PEC | 25SE205T(i) | Design of High Rise Structures | 4 |
| | | 25SE205T(ii) | Bridge Engineering | |
| | | 25SE205T(iii) | Advanced Earthquake Design | |
| III | PEC | 25SE301T(i) | Advanced Foundation Design | 4 |
| | | 25SE301T(ii) | Structural Health Monitoring | |
| | | 25SE301T(iii) | Retrofitting and Rehabilitation of Structures | |
| III | PEC | 25SE302T(i) | Sustainable Construction and Demolition Engineering | 4 |
| | | 25SE302T(ii) | Theory of Plates and Shells | |
| | | 25SE302T(iii) | Smart Structures and Application | |

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