

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I M.TECH. TRANSPORTATION ENGINEERING

SEMESTER - I

| S.No. | Subject Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------------|--------------|--|----------------|---|---|------------|------------|---------------|-----|-----|-------|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | CE54011 | Traffic Analysis | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 2 | CE50009 | Advanced Concrete Technology | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 3 | CE50015 | Advanced Soil Mechanics and Foundation Engineering | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 4 | | Elective - I | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 5 | | Elective - II | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 6 | CE54457 | Soil Mechanics Lab | - | - | 2 | - | 1 | - | - | 40 | 60 | 100 |
| 7 | CE54458 | Advanced Concrete Technology Lab | - | - | 2 | - | 1 | - | - | 40 | 60 | 100 |
| 8 | CE54459 | Computing Techniques Lab | - | - | 4 | - | 2 | - | - | 40 | 60 | 100 |
| 9 | CE54499 | Comprehensive Viva | - | - | - | - | - | - | - | - | Grade | Grade |
| Total | | | 15 | 0 | 8 | 15 | 4 | 350 | 150 | 120 | 180 | 800 |

SEMESTER - II

| S.No. | Subject Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------------|--------------|--|----------------|---|---|------------|------------|---------------|-----|-----------|-----------|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | CE54516 | Design and Construction of Rigid Pavement | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 2 | CE54517 | Design and Construction of Flexible Pavement | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 3 | CE54518 | System Analysis and Urban Transportation | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 4 | | Elective - III | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 5 | | Elective - IV | 3 | - | - | 3 | - | 70 | 30 | - | - | 100 |
| 6 | CE54856 | Seminar | - | - | 2 | - | 1 | - | - | 40 | 60 | 100 |
| 7 | CE54857 | Term Paper | - | - | 2 | - | 1 | - | - | 40 | 60 | 100 |
| 8 | CE54858 | Minor Project | - | - | 4 | - | 2 | - | - | 40 | 60 | 100 |
| 9 | CE54899 | Comprehensive Viva | - | - | - | - | - | - | - | - | Grade | Grade |
| Total | | | 15 | 0 | 8 | 15 | 4 | 350 | 150 | 120 | 180 | 800 |

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List of Electives

SEMESTER - I

| S.No. | Subject Code | Elective I |
|-------|--------------|---|
| 1 | CE54211 | Airport Infrastructure Planning and Design |
| 2 | CE54212 | Finite Element Method |
| 3 | CE54213 | Instrumentation and Experimental Techniques |

| S.No. | Subject Code | Elective II |
|-------|--------------|--|
| 1 | CE54311 | Railway Infrastructure Planning and Design |
| 2 | CE54312 | Quality and safety in Construction |
| 3 | CE54313 | Research Methodology |

SEMESTER - II

| S.No. | Subject Code | Elective III |
|-------|--------------|-----------------------------------|
| 1 | CE54714 | Bridge and Tunnel Engineering |
| 2 | CE54712 | Intelligent Transportation System |
| 3 | CE54713 | Analysis & Design of Bridges |

| S.No. | Subject Code | Elective IV |
|-------|--------------|---|
| 1 | CE54761 | Transportation Planning and Infrastructure Design |
| 2 | CE54762 | Advanced Construction Practices |
| 3 | CE54763 | Numerical & System Methods |