

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Teaching and Examination Scheme-2024-25

M.Tech_Transportation Engineering (TE)

| Sr. No. | Course | YEAR | SEM. | Course Code | Course Name | Category | Teaching Scheme | | | Exam Hrs. | Marks | | | Credit |
|---------|--------|------|------|-------------|--|----------|-----------------|---|---|-----------|---------------------|-----|-------|-----------|
| | | | | | | | L | T | P | | CIE | SEE | Total | |
| 1 | TE | I | I | CEPL101 | Transportation Planning | PCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 2 | TE | I | I | CEPL102 | Pavement Materials and Construction | PCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 3 | TE | I | I | CEPL111 | Advanced Concrete Technology | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 4 | TE | I | I | CEPL112 | Ground Improvement Techniques | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 5 | TE | I | I | CEPL113 | Environmental Impact and Risk Assessment | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 6 | TE | I | I | CEPL114 | Geometric Design of Highways | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 7 | TE | I | I | CEPL115 | Design of Rural Roads | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 8 | TE | I | I | CEPL116 | Transportation Infrastructure Design | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 9 | TE | I | I | NP40.01 | Optimization Techniques | MCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 10 | TE | I | I | NP99.XX | AUDIT COURSE | MCC | - | - | - | 3 | 40 | 60 | 100 | 0 |
| 11 | TE | I | I | CEPP130 | Pavement Material Testing Laboratory | PCC | 0 | 0 | 4 | 2 | 60 | 40 | 100 | 2 |
| 12 | TE | I | I | CEPP131 | Transportation Software Lab | PCC | 0 | 0 | 4 | 2 | 60 | 40 | 100 | 2 |
| 13 | TE | I | I | CEPA100 | Social Outreach, Discipline & Extra Curricular Activities (SODECA) | SODECA | - | - | - | - | - | - | 100 | 1 |
| | | | | | | | | | | | Total Credit | | | 20 |

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| | | | | | | | L | T | P | | CIE | SEE | Total | |
| 1 | TE | I | II | CEPL201 | Pavement Analysis and Design | PCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 2 | TE | I | II | CEPL202 | Traffic Engineering | PCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 3 | TE | I | II | CEPL211 | Urban Mass Transportation System | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 4 | TE | I | II | CEPL212 | Application of GIS in Transportation Engineering | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 5 | TE | I | II | CEPL213 | Road Safety Engineering | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 6 | TE | I | II | CEPL214 | Transportation Economics and Management | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 7 | TE | I | II | CEPL215 | Pavement Maintenance and Management Systems | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 8 | TE | I | II | CEPL216 | Non-Motorized Transport and Management | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | |
| 9 | TE | I | II | NP99.XX | AUDIT COURSE | MCC | - | - | - | 3 | 40 | 60 | 100 | 0 |
| 10 | TE | I | II | CEPP230 | Pavement Design and Evaluation Lab | PCC | 0 | 0 | 4 | 2 | 60 | 40 | 100 | 2 |
| 11 | TE | I | II | CEPP231 | Traffic Studies and Analysis Lab | PCC | 0 | 0 | 4 | 2 | 60 | 40 | 100 | 2 |
| 12 | TE | I | II | CEPD250 | Mini Project with Seminar | REW | 0 | 0 | 4 | 2 | 60 | 40 | 100 | 2 |
| 13 | TE | I | II | CEPA200 | Social Outreach, Discipline & Extra Curricular Activities (SODECA) | SODECA | - | - | - | - | - | - | 100 | 1 |
| | | | | | | | | | | | Total Credit | | | 19 |

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|---------|--------|------|------|-------------|--------------------------------------|----------|-----------------|---|---|-----------|---------------------|-----|-------|-----------|
| | | | | | | | L | T | P | | CIE | SEE | Total | |
| 1 | TE | II | III | CEPL311 | Logistics and Freight Management | PEC | | | | | | | | |
| 2 | TE | II | III | CEPL312 | Sustainable Construction Engineering | PEC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 3 | TE | II | III | CEPL313 | Road Asset Management System | PEC | | | | | | | | |
| 4 | TE | II | III | NP40.02 | Research Methodology and IPR | MCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 5 | TE | II | III | | OPEN ELECTIVE | MCC | 3 | 0 | 0 | 3 | 40 | 60 | 100 | 3 |
| 6 | TE | II | III | CEPD360 | Pre-Dissertation | REW | - | - | - | - | 240 | 160 | 400 | 12 |
| | | | | | | | | | | | Total Credit | | | 21 |
| 1 | TE | II | IV | CEPD470 | Dissertation | REW | - | - | - | - | 360 | 240 | 600 | 20 |
| | | | | | | | | | | | Total Credit | | | 20 |

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| | | | | | | | L | T | P | | CIE | SEE | Total | |

Summary of Credit Distribution_M.Tech_Transportation Engineering (TE)

| Category | Proposed Credit Distribution for M.Tech. Program | Credit Distribution proposed by Department | Remarks (Discrepance if any) |
|------------------------------------|--|--|------------------------------|
| PCC (Program Core Courses) | 35 | 20 | 0 |
| PEC (Program Elective Courses)-I | | 15 | |
| PEC (Program Elective Courses)-II | | | |
| PEC (Program Elective Courses)-III | | | |
| PEC (Program Elective Courses)-IV | | | |
| PEC (Program Elective Courses)-V | | | |
| REW(Research Work) | 34 | 34 | 0 |
| MCC (Mandatory Course) | 9 | 9 | 0 |
| SODECA | 2 | 2 | 0 |
| Total | 80 | 80 | 0 |

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|---------|--------|------|------|-------------|-------------|----------|-----------------|---|---|-----------|-------|-----|-------|--------|
| | | | | | | | L | T | P | | CIE | SEE | Total | |

Summary of Credit Distribution_M.Tech_Transportation Engineering (TE)

| Semester | Proposed Credit Distribution for M.Tech. Program | Credit Distribution proposed by Department | Remarks (Discrepance if any) |
|--------------|--|--|------------------------------|
| I | 20 | 20 | 0 |
| II | 19 | 19 | 0 |
| III | 20 | 20 | 0 |
| IV | 21 | 21 | 0 |
| Total | 80 | 80 | 0 |