

VISVESVARAYATECHNOLOGICAL UNIVERSITY,BELAGAVI
Scheme of Teaching and Examination – 2018-19
M.Tech Transportation Engineering (CTE)
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

| ISEMESTER | | | | | | | | | | |
|---|--------|-------------|---|---------------------|--|----------------------|------------|------------|------------|-------------|
| Sl. No | Course | Course Code | Course Title | Teaching Hours/Week | | Examination | | | Credits | |
| | | | | Theory | Practical/ Fieldwork/ Assignment | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| 1 | PCC | 18CTE11 | Applied Statistics | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 2 | PCC | 18CTE12 | Traffic Engineering-I | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18CTE13 | Pavement Materials | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | PCC | 18CTE14 | Applied Soil Mechanics and Ground Improvement Techniques | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 5 | PCC | 18CTE15 | Urban Transport Planning | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 6 | PCC | 18CTEL16 | Pavement Materials Testing Lab I | - | 04 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18RMI17 | Research Methodology and IPR | 02 | -- | 03 | 40 | 60 | 100 | 2 |
| TOTAL | | | | 22 | 04 | 21 | 280 | 420 | 700 | 24 |
| Note: PCC: Professional Core, PEC: Professional Elective. | | | | | | | | | | |
| <p>Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and/or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements. nottake-</p> | | | | | | | | | | |

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| II SEMESTER | | | | | | | | | | |
|---|--------|--------------------------|---|--------------------|--|---------------------|---|------------|------------|-----------|
| Sl. No | Course | CourseCode | CourseTitle | TeachingHours/Week | | Examination | | | | Credits |
| | | | | Theory | Practical/ Fieldwork/ Assignment | Durationin hours | CIEMarks | SEE Marks | TotalMarks | |
| 1 | PCC | 18CTE21 | Pavement Design and Analysis | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 2 | PCC | 18CTE22 | Transportation Economics And Evaluation | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18CTE23 | GeometricDesign ofTransportation facilities | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | PEC | 18CTE24X | Professionalelective1 | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 5 | PEC | 18CTE25X | Professionalelective2 | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 6 | PCC | 18CTEL26 | TransportationEngineering Lab | -- | 04 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18CTE27 | TechnicalSeminar | -- | 02 | -- | 100 | -- | 100 | 2 |
| TOTAL | | | | 20 | 06 | 18 | 340 | 360 | 700 | 24 |
| Note:PCC:Professionalcore, PEC: ProfessionalElective. | | | | | | | | | | |
| ProfessionalElective1 | | | | | Professional Elective2 | | | | | |
| CourseCode under18XXX24X | | Coursetitle | | | CourseCodeunder 18XXX25X | | Coursetitle | | | |
| 18CTE241 | | Theories of traffic flow | | | 18CTE251 | | PavementManagementSystem | | | |
| 18CTE242 | | Railways and Airways | | | 18CTE252 | | TransportationStructures | | | |
| 18CTE243 | | TransportationSystems | | | 18CTE253 | | RemoteSensingandGISinTransport Planning | | | |
| Note: | | | | | | | | | | |
| <p>1. Technical Seminar: CIEMarksshallbeawardedbyacommitteecomprisingofHoDasChairman,Guide/co-guide,ifany,anda senior facultyofthedepartment.Participationinthe seminarbyallpostgraduatestudentsofthe sameandothersemestersoftheprogrammeshall bemandatory.</p> <p>TheCIEMarksaawardedforTechnicalSeminar,shallbebasedontheevaluationofSeminarReport,PresentationskillandQuestionand Answersessionintheratio50:25:25.</p> <p>2. Internship: All the studentsshallhavetoundergomandatoryinternshipof6weeksduringthevacationofIandIIsemestersand/orII andIIIsemesters.AUniversityexaminationshallbeconductedduringIIIsemesterandtheprescribedcreditshallbecountedin thesame semester.Internshipshallbeconsideredas a headofpassingandshallbeconsideredfortheawardofdegree.Those,whodonottake-up/completetheinternshipshallbedeclaredas failedandhavetocompleteduringthe subsequentUniversityexaminationaftersatisfying theinternshiprequirements.</p> | | | | | | | | | | |

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| III SEMESTER | | | | | | | | | | |
|--|----------------------------------|------------|----------------------------------|---|---|---------------------|------------|------------|------------|-----------|
| Sl. No | Course | CourseCode | CourseTitle | TeachingHours/Week | | Examination | | | | Credits |
| | | | | Theory | Practical/ Fieldwork/ Assignment | Durationin hours | CIEMarks | SEEMarks | TotalMarks | |
| 1 | PCC | 18CTE31 | Pavement Construction Technology | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 2 | PEC | 18CTE32X | Professionalelective3 | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PEC | 18CTE33X | Professionalelective4 | 04 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | Project | 18CTE34 | Evaluationof Projectphase-1 | -- | 02 | -- | 100 | -- | 100 | 2 |
| 5 | Internship | 18CTEI35 | Internship | (Completedduringthe intervening vacationof IandIIsemestersand /orIIandIII semesters.) | | 03 | 40 | 60 | 100 | 6 |
| TOTAL | | | | 12 | 02 | 12 | 260 | 240 | 500 | 20 |
| Note:PCC:Professionalcore, PEC: ProfessionalElective. | | | | | | | | | | |
| Professionalelective3 | | | | | Professionalelective4 | | | | | |
| CourseCode under18XXX32X | Coursetitle | | | CourseCodeunder 18XXX32X | Coursetitle | | | | | |
| 18CTE321 | RoadSafetyandManagement | | | 18CTE331 | Rural Roads | | | | | |
| 18CTE322 | IntelligentTransportationSystems | | | 18CTE332 | EnvironmentalImpact Assessmentof TransportationProjects | | | | | |
| 18CTE323 | InfrastructureManagement | | | 18CTE333 | Pavement Evaluation And Management | | | | | |
| Note: | | | | | | | | | | |
| <p>1.ProjectPhase-1:Studentsinconsultationwiththeguide/co-guideifany,shallpursueliteraturesurveyandcompletethepreliminary requirements of selectedProjectwork.Eachstudentshallpreparerelevantintroductoryprojectdocument,andpresenta seminar.CIEMarksshallbeawardedbyacommitteecomprisingofHoDasChairman,Guide/co-guideifany,andaseniorfacultyofthedeartment.TheCIEMarkswawardedforprojectworkphase-1,shallbebasedontheevaluationofProjectReport,ProjectPresentationskilland QuestionandAnswersessionintheratio50:25:25. SEE(Universit'examination)shallbeas pertheUniversitynorms.</p> <p>2.Internship:Those,whohavenotpursued/completedtheinternshipshallbedeclaredasfailedandhavetocompleteduringsubsequent Universityexaminationsaftersatisfyingtheinternshiprequirements. InternshipSEE(Universit'examination)shallbeas per theUniversitynorms.</p> | | | | | | | | | | |

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| IV SEMESTER | | | | | | | | | | |
|---|---------|-------------|---------------------|---------------------|--|----------------------|-----------|----------------------|------------|-----------|
| Sl. No | Course | Course Code | Course Title | Teaching Hours/Week | | Examination | | | | Credits |
| | | | | Theory | Practical/ Fieldwork/ Assignment | Duration in hours | CIEMarks | SEEMarks Vivavoce | TotalMarks | |
| 1 | Project | 18CTE41 | Projectwork phase-2 | -- | 04 | 03 | 40 | 60 | 100 | 20 |
| TOTAL | | | | -- | 04 | 03 | 40 | 60 | 100 | 20 |
| <p>Note: 1. Project Phase-2: CIEMarksshallbeawardedbyacommitteecomprisingofHoDasChairman, Guide/co-guide, ifany,andaSeniorfacultyofthe department. TheCIEMarksawardedforprojectworkphase-2,shallbebasedontheevaluationofProjectReportssubjectedtoplagiarism check,ProjectPresentationskillandQuestionandAnswersessionintheratio50:25:25. SEEshallbeattheendofIVsemester.ProjectworkevaluationandViva-Voceexamination(SEE),aftersatisfyingtheplagiarismcheck, shallbeas per theUniversitynorms.</p> | | | | | | | | | | |

