

MASTER OF TECHNOLOGY IN CIVIL ENGINEERING WITH SPECIALIZATION IN GEOTECHNICAL ENGINEERING

Semester I		
S No	Course Code	Course Title
1	26MTGT11C01	Soil Exploration and Analysis of Foundations
2	26MTCE11C01	Research Methodology
3	25MTGT11C02	Structural Design of Foundation and Retaining Structures
4		Elective-I
5		Elective-II
6	26MTGT11C03	Geotechnical Engineering Laboratory

Basket – I & II		
Departmental / Discipline Elective		
Basket	Course Code	Course Title
I	26MTCE11E01	Theory of Elasticity and Plasticity
I	26MTCE11E02	Pavement Analysis and Design
I	26MTCE11E03	Rock Mechanics
II	26MTCE11E04	Remote sensing and GPS for Transportation Engineering
II	26MTCE11E05	Disaster Mitigation and Management
II	26MTGT11E01	Landfill Engineering

SEMESTER II		
S No	Course Code	Course Title
1	26MTGT12C01	Advanced Soil Mechanics
2	26MTGT12C02	Advance Foundation Engineering
3	26MTCE12C02	Operation Research
4		Elective – III
5		Elective – IV
6	26MTCE12C01	Project

Basket – III & IV		
Discipline Elective-II		
Basket	Course Code	Course Title
III	26MTGT12E01	Advanced Environmental Geotechnics
III	26MTGT12E02	Geoinformatics
III	26MTGT12E03	Geo-engineering Investigation
IV	26MTCE12E01	Soil-Structure Interaction
IV	26MTGT12E04	Ground Water Engineering
IV	26MTGT12E05	Earthquake Geotechniques

Semester III		
S No	Course Code	Course Title
1	26MTGT23C01	Dynamics of soils and foundations
2	26MTGT23C02	Soil Dynamics
3	26MTGT23C03	. Geotechnical Earthquake Engineering
4	26MTCE23C01	Environmental Engineering & Management
5	26MTCE23C02	Dissertation Phase I (Literature Survey)

SEMESTER IV		
S No	Course Code	Course Title
1	26MTCE24C01	Dissertation II

Masters of Technology in Civil Engineering with specialization in Transportation Engineering

Semester I		
S No	Course Code	Course Title
1	26MTTE11C01	Traffic Engineering and Management
2	26MTCE11C01	Research Methodology
3	26MTTE11C02	Advanced Highway Engineering
4		Elective-I
5		Elective-II
6	26MTTE11C03	Transportation Engineering Lab

Elective Basket I & II		
Basket	Course Code	Course Title
I	26MTCE11E01	Theory of Elasticity and Plasticity
I	26MTCE11E02	Pavement Analysis and Design
I	26MTCE11E03	Rock Mechanics
II	26MTCE11E04	Remote sensing and GPS for Transportation Engineering
II	26MTCE11E07	Transportation System Management
II	26MTCE11E08	Soil Exploration and Analysis of Foundations

SEMESTER II		
S No	Course Code	Course Title
1	26MTTE12C01	Traffic Flow Analysis
2	26MTTE12C02	Highway Construction Practice
3	26MTCE12C02	Operation Research
4		Elective – III
5		Elective – IV
6	26MTCE12C01	Project

Elective Basket III & IV		
Basket	Course Code	Course Title
III	26MTTE12E01	Intelligent Transportation Systems
III	26MTTE12E02	Pavement Construction Maintenance and Management
III	26MTCE12E02	Optimization Techniques
IV	26MTTE12E03	GIS Applications in Transportation Engineering
IV	26MTTE12E04	Environmental Impact Assessment
IV	26MTTE12E05	Roads in special areas

SEMESTER III		
S No	Course Code	Course Title
1	26MTTE23C01	Geometric Design of Transportation Infrastructure
2	26MTTE23C02	Transportation Economics and Finance
3	26MTCE23C03	Low Volume Roads
4	26MTCE23C01	Environmental Engineering & Management
5	26MTCE23C02	Dissertation Phase I (Literature Survey)

SEMESTER IV		
S No	Course Code	Course Title
1	26MTCE24C01	Dissertation II

Masters of Technology in Civil Engineering with Specialization in Construction Technology & Management

Semester I		
S No	Course Code	Course Title
1	26MTCT11C01	Project Planning & Control
2	26MTCE11C01	Research Methodology
3	26MTCT11C02	Construction Engineering & Management
4		Elective-I
5		Elective-II
6	26MTCT11C03	QA & QC LAB

Elective Basket I & II		
Basket	Course Code	Course Title
I	26MTCE11E07	Transportation System Management
I	26MTCE11E02	Pavement Analysis and Design
I	26MTCE11E05	Disaster Mitigation and Management
II	26MTCE11E06	Repair and Rehabilitation of Structures
II	26MTCE11E04	Remote sensing and GPS for Transportation Engineering
II	26MTCE11E08	Soil Exploration and Analysis of Foundations

SEMESTER II		
S No	Course Code	Course Title
1	26MTCT12C01	Concrete Construction Technology
2	26MTCT12C02	Construction Laws and Contract Management
3	26MTCE12C02	Operation Research
4		Elective – III
5		Elective – IV
6	26MTCE12C01	Project

Elective Basket III & IV		
Basket	Course Code	Course Title
III	26MTCE12E02	Optimization Techniques
III	26MTCT12E01	Rural Construction Technology
III	26MTCT12E02	Building Acoustics and Noise Control
IV	26MTCT12E03	Construction Costing and Financial Management
IV	26MTCT12E04	Energy Efficient Buildings
IV	26MTCT12E05	Building Planning and Design

SEMESTER III		
S No	Course Code	Course Title
1	26MTCT23C01	Advanced Construction Techniques
2	26MTCT23C02	Construction Quality and Safety
3	26MTCT23C03	Computational Techniques
4	26MTCE23C01	Environmental Engineering & Management
5	26MTCE23C02	Dissertation Phase I (Literature Survey)

SEMESTER IV		
S No	Course Code	Course Title
1	26MTCE24C01	Dissertation II

Masters of Technology in Civil Engineering with Specialization in Structural Engineering

Semester I		
S No	Course Code	Course Title
1	26MTSE11CO1	Structural Dynamics
2	26MTCE11C01	Research Methodology
3	26MTSE11C02	Advanced Structural Analysis
4		Elective-I
5		Elective-II
6	26MTSE11C03	CAD Laboratory (Analysis and design software)

Elective Basket I & II		
Basket	Course Code	Course Title
I	26MTCE11E01	Theory of Elasticity and Plasticity
I	26MTCE11E02	Pavement Analysis and Design
I	26MTCE11E03	Rock Mechanics
II	26MTCE11E06	Repair and Rehabilitation of Structures
II	26MTSE11E01	Design of Retaining Structures
II	26MTCE11E08	Soil Exploration and Analysis of Foundations

SEMESTER II		
S No	Course Code	Course Title
1	26MTSE12C01	Advanced Concrete Design
2	26MTSE12C02	Advanced Prestressed Concrete Design
3	26MTCE12C02	Operation Research
4		Elective – III
5		Elective – IV
6	26MTCE12C01	Project

Elective Basket III & IV		
Basket	Course Code	Course Title
III	26MTCE12E01	Soil-Structure Interaction
III	26MTSE12E01	Structural Materials
III	26MTSE12E02	Bridge Engineering
IV	26MTSE12E03	Finite Element method
IV	26MTSE12E04	Fundamentals of Earthquake Resistant Design
IV	26MTSE12E05	Prefabricated Structures

SEMESTER III		
S No	Course Code	Course Title
1	26MTSE23C01	Advanced Solid Mechanics
2	26MTSE23C02	Advanced Foundation Engineering
3	26MTCE23C03	Analytical and Numerical Methods for Structural Engineering
4	26MTCE23C01	Environmental Engineering & Management
5	26MTCE23C02	Dissertation Phase I (Literature Survey)

SEMESTER IV		
S No	Course Code	Course Title
1	26MTCE24C01	Dissertation II