

**MIT ART, DESIGN AND TECHNOLOGY  
UNIVERSITY, PUNE**

**MIT SCHOOL OF ENGINEERING, PUNE**

**STRUCTURE AND SYLLABUS**

**FOR**

**M. Tech. Transportation Engineering**

**UNDER FACULTY OF TECHNOLOGY**

**(w.i.e. 2019-2020)**

**SEMESTER I**

Sr.No.	Course Code	Course Title	Teaching Scheme Periods per week			Credits	Evaluation Scheme		Total Marks	Category
			L	T	P/D		CA	FE		
1	19MTMT101	Applied Mathematics For Engineers	3	1	0	4	40	60	100	BSC
2	19MTTE101	Highway Planning And Economic Analysis	3	1	0	4	40	60	100	DCC
3	19MTTE102	Highway Material	3	0	0	3	40	60	100	DCC
4	19MTTE103	Traffic Engineering And Design	3	0	0	3	40	60	100	DCC
5	19MTTE104	Railway Engineering	3	0	0	3	40	60	100	DCC
6	19MTTE111	Highway Material Laboratory	0	0	2	1	40	60	100	DCC
7	19MTTE121	Technical Seminar I	0	0	2	1	100	0	100	PSR
Total			15	2	4	19	340	360	700	-

**SEMESTER II**

Sr.No.	Course Code	Course Title	Teaching Scheme Periods per week			Credits	Evaluation Scheme		Total Marks	Category
			L	T	P/D		CA	FE		
1	19MTTE201	Research Methodology	3	0	0	3	40	60	100	DCC
2	19MTTE202	Highway Design And Analysis	3	1	0	4	40	60	100	DCC
3	19MTTE203	Pavement Evaluation And Maintenance	3	1	0	3	40	60	100	DCC
4	19MTTE__	Elective I	3	0	0	3	40	60	100	DEC
5	19MTTE__	Elective II	3	0	0	3	40	60	100	DEC
6	19MTTE__	Elective III	3	0	0	3	40	60	100	DEC
7	19MTTE__	Elective IV	3	0	0	3	40	60	100	DEC
8	19MTTE211	Transportation Software Laboratory	0	0	4	2	40	60	100	DCC
9	19MTTE221	Design Studio	0	0	4	2	100	0	100	DCC
Total			21	2	8	27	420	480	900	-

**SEMESTER III**

Sr.No.	Course Code	Course Title	Teaching Scheme Periods per week			Credits	Evaluation Scheme		Total Marks	Category
			L	T	P/D		CA	FE		
1	19MTTE311	Comprehensive Viva Voce	0	0	0	6	40	60	100	DCC
2	19MTTE321	Project Phase I	0	0	16	8	40	60	100	PRS
Total			0	0	16	14	80	120	200	-

**SEMESTER IV**

Sr.No.	Course Code	Course Title	Teaching Scheme Periods per week			Credits	Evaluation Scheme		Total Marks	Category
			L	T	P/D		CA	FE		
1	19MTTE421	Project Phase II	0	0	28	14	100	200	300	PRS
Total			0	0	28	14	380	420	800	-

**LIST OF ELCTIVES**

Course Code	Elective	Course Title
19MTTE241	Elective I	Airport, Docks & Harbours Engineering
19MTTE242		Advanced Concrete Technology
19MTTE243		Highway Materials
19MTTE244		Construction Quality And Safety Management
19MTTE245	Elective II	Transportation Planning
19MTTE246		Soil Mechanics
19MTTE247		Railway Engineering
19MTTE248		GIS & RS In Transportation Engineering
19MTTE249	Elective III	Intelligent Transportation System
19MTTE250		Transportation Equipment And Management
19MTTE251		Transportation Sustainability
19MTTE252		Geospatial Techniques
19MTTE253	Elective IV	Tunnel & Bridge Engineering
19MTTE254		Environmental Impact Assessment
19MTTE255		Advanced Transportation System
19MTTE256		Economics And Finance For Engineers