

Department of Civil Engineering

M.Tech in Transportation Engineering

I Semester

Sr.No.	Course Code	Course Types	Course Name	L	T	P	C	Basket
1	C1PC120T	PP+TUT	Advanced Numerical and Statistical Methods	3	1	0	4	Core
2	G1PD101T	PP	Material Characterization and Pavement Engineering	3	0	0	3	Core
3	G1PD102T	PP	Highway Geometric Design	3	0	0	3	Core
4	G1PD103T	PP	Traffic Engineering and Safety	3	0	0	3	Core
5	G1PD104T	PP	Intelligent Transportation Systems	3	0	0	3	Core
6	G1PD105L	PR	Pavement Material Lab	0	0	2	1	Core
7	G1PD106L	PR	Traffic Engineering Lab	0	0	2	1	Core
8	O1PA101L	PR	Professional and Communication Skills	0	0	4	2	Core
				Total			20	

II Semester

Sr.No.	Course Code	Course Types	Course Name	L	T	P	C	Basket
1	G1PD201T	PP	Advanced Traffic Engineering and Safety	3	0	0	3	Core
2	G1PD202T	PP	Urban Mass Transportation Planning Operations and Ma	3	0	0	3	Core
3	G1PD203T	PP	Computational Techniques In Transportation Engineering	3	0	0	3	Core
4	G1PD204T	PP	Program Elective 1	3	0	0	3	Elective
5	G1PD205T	PP	Program Elective 2	3	0	0	3	Elective
6	G1PD206T	PP	Program Elective 3	3	0	0	3	Elective
7	G1PC302L	PR	Machine Learning applications in Civil Engineering	0	0	4	2	Core
8	G1PC209L	PR	Scientific Report Writing	0	0	0	1	Core
				Total			21	

III Semester

Sr.No.	Course Code	Course Types	Course Name	L	T	P	C	Basket
1	MTPE7001	PP	Smart and Sustainable Transportation	3	0	0	3	Core
2		PP	Program Elective 4	3	0	0	3	Elective
3		PP	Program Elective 5	3	0	0	3	Elective
4	MTPE7005	PR	GIS Application in Transportation	0	0	2	1	Core

4		PR	Transportation Systems Planning and Management Lab	0	0	2	1	Core
5	MTPE7004	PR	Project (Phase I)	0	0	0	5	Core
				Total			16	

Semester IV								
Sr.No.	Course Code	Course Types	Course Name	L	T	P	C	Basket
1	MTPE8001	PR	Project(Phase II)	0	0	0	15	Core
				Total			15	

Total Credits							72
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List of Program Electives

Sr.No.	Course Code	Course Types	Course Name	L	T	P	C
1	MTPE6010	PP	Airport planning and design	3	0	0	3
2	MTPE6011	PP	Remote Sensing and GIS	3	0	0	3
3	MTPE6012	PP	Selection of Construction Equipment and Modelling	3	0	0	3
4	MTPE6013	PP	Transport Economics and Finance	3	0	0	3
5	MTPE6014	PP	Traffic Flow Theory	3	0	0	3
6	MTPE6015	PP	Highway construction practices	3	0	0	3
7	MTPE6016	PP	ML and Deep learning techniques to transportation prob	3	0	0	3
8	MTPE6017	PP	Behavioural Travel Modelling	3	0	0	3
9	MTPE6018	PP	Rural Road Technology	3	0	0	3
10	MTPE6019	PP	Traffic Management & Design	3	0	0	3
11	MTPE6020	PP	Public Transportation System	3	0	0	3
12	MTPE6021	PP	Ground Improvement Techniques	3	0	0	3
13	MTPE6022	PP	Bridge Engineering	3	0	0	3
14	MTPE6023	PP	Transportation Network Analysis	3	0	0	3
15	MTPE6024	PP	Project Management	3	0	0	3
16	New course	PP	Mass Transit System	3	0	0	3