

BVM Engineering College (An Autonomous Institution)

Civil Engineering Department

M. Tech. Transportation Engineering

Semester 1

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	5TE01	Traffic Engineering and Simulation	3	0	2	5	4
2	5TE02	Highway Materials and Construction	3	0	2	5	4
3	5MA01	Data Analytics in Engineering	3	0	2	5	4
4	5TE03	Transportation Project	0	0	2	2	1
5		Program Elective - I	3	1	0	4	4
6		Program Elective - II	3	1	0	4	4
Total			15	2	8	25	21

Program Elective - I

1	5TE41	Transportation Planning and Practices	3	1	0	4	4
2	5TE42	Multimodal Transportation System Planning and Design	3	1	0	4	4
3	5TE43	Freight Transportation Planning	3	1	0	4	4

Program Elective - II

1	5TE44	Airport System Planning and Design	3	1	0	4	4
2	5TE45	Railway Infrastructure Planning and Design	3	1	0	4	4
3	5TE46	Water Transport System	3	1	0	4	4

Semester 2

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	5TE04	Pavement Analysis and Design	3	1	0	4	4
2	5TE05	Highway Geometric Design and Safety	2	0	2	4	3
3	5CE02	Research Methodology and IPR	2	0	0	2	2
4	5TE06	Computer Aided Design in Transportation Engineering	0	0	4	4	2
5		Program Elective - III	3	1	0	4	4
6		Program Elective - IV	3	1	0	4	4
7	5TE07	Seminar	0	0	4	4	2
Total			13	3	10	26	21

Program Elective - III						
1	5CE41	GIS-GPS in Civil Engineering	3	1	0	4 4
2	5TE47	Operation & Maintenance Management of Pavements	3	1	0	4 4
3	5TE48	Environmental Analysis of Transportation System	3	1	0	4 4

Program Elective - IV						
1	5TE49	Transportation Economics	3	1	0	4 4
2	5TE50	Project Appraisal & Finance Management	3	1	0	4 4
3	5TE51	Transport Policy and Financing	3	1	0	4 4

Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Program Elective - V	3	0	0	3	3
2		Open Elective	3	0	0	3	3
3	6TE31	Dissertation – I	0	0	20	20	10
Total			6	0	20	26	16

Program Elective - V						
1	6TE41	Intelligent Transport System	3	0	0	3 3
2	6TE42	Pavement Management System	3	0	0	3 3
3	6TE43	Traffic Flow Theory	3	0	0	3 3

Open Elective						
1.	6CM81	Strategic Management	3	0	0	3 3
2.	6CM82	Disaster Management	3	0	0	3 3
3.	6EE81	Renewable Energy Systems	3	0	0	3 3
4.	6EN81	Rural Sanitation	3	0	0	3 3
5.	6EN82	Analytical Methods for Environmental Monitoring	3	0	0	3 3
6.	6IF81	Infrastructure Technology and Management	3	0	0	3 3
7.	6MD81	Robust Design	3	0	0	3 3
8.	6MD82	Optimization Techniques	3	0	0	3 3
9.	6MD83	Reliability Engineering and Quality Control	3	0	0	3 3
10.	6SE81	Disaster Management and Mitigation	3	0	0	3 3

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Semester 4						
Sr. No.	Course Code	Name of Course	L	T	P	H C
1	6TE32	Dissertation – II	0	0	32	32 16
Total			0	0	32	32 16
Total Credits Distributions			36	5	70	109 74