

# MVJ College of Engineering, Whitefield, Bangalore

An Autonomous Institution, Affiliated to VTU, Belagavi

Scheme of Teaching and Examination 2020-21

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

Effective from the academic year 2020-21

## I SEMESTER M.TECH- (TRANSPORTATION ENGINEERING)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	PCC	MVJ20CTE11	Advanced Traffic Engineering	Civil Engineering	4	0	0	3	50	50	100	4
2	PCC	MVJ20CTE12	Pavement Materials and construction	Civil Engineering	4	0	0	3	50	50	100	4
3	PCC	MVJ20CTE13	Applied Soil Mechanics and Ground Improvement Techniques	Civil Engineering	4	0	0	3	50	50	100	4
4	PCC	MVJ20CTE14	Urban Transport Planning	Civil Engineering	3	0	0	3	50	50	100	3
5	PCC	MVJ20CTE15	Applied Statistics	Civil Engineering	3	0	0	3	50	50	100	3
6	PCC	MVJ20CTEL16	Highway Materials Testing Lab	Civil Engineering	0	1	3	3	50	50	100	2
7	PCC	MVJ20CTEL17	Concrete Materials Testing Lab	Civil Engineering	0	1	3	3	50	50	100	2
8	PCC	MVJ20IPR18	Research Methodology and IPR	Civil Engineering	2	0	0	3	50	50	100	2
<b>Total</b>					<b>20</b>	<b>2</b>	<b>6</b>	<b>24</b>	<b>400</b>	<b>400</b>	<b>800</b>	<b>24</b>

Note: PCC: Professional Core Course

## II SEMESTER M.TECH- (TRANSPORTATION ENGINEERING)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	PCC	MVJ20CTE21	Pavement Design and Analysis	Civil Engineering	4	0	0	3	50	50	100	4
2	PCC	MVJ20CTE22	Transportation Economics And Evaluation	Civil Engineering	4	0	0	3	50	50	100	4
3	PCC	MVJ20CTE23	Railways and Airways	Civil Engineering	4	0	0	3	50	50	100	4
4	PCC	MVJ20CTE24	Geometric Design of Transportation Facilities	Civil Engineering	4	0	0	3	50	50	100	4
5	PE	MVJ20CTE25X	Professional Elective -1	Civil Engineering	3	0	0	3	50	50	100	3
6	PE	MVJ20CTE26X	Professional Elective -2	Civil Engineering	3	0	0	3	50	50	100	3
7	PCC	MVJ20CTEL27	Transportation Engineering Lab	Civil Engineering	0	1	3	3	50	50	100	2
8	Seminar	MVJ20CTE28	Technical Seminar	Civil Engineering	-	-	4	-	100	-	100	2
<b>Total</b>					<b>22</b>	<b>1</b>	<b>7</b>	<b>21</b>	<b>450</b>	<b>350</b>	<b>800</b>	<b>26</b>

Note: PCC: Professional Core Course , PE: Professional Elective

Professional Elective-1		Professional Elective-2	
MVJ20CTE251	Road safety and Management	MVJ20CTE261	Rural Roads
MVJ20CTE252	Intelligent Transportation Systems	MVJ20CTE262	Transportation Systems
MVJ20CTE253	Pavement Evaluation and Management	MVJ20CTE263	Pavement Management Systems
MVJ20CTE254	Theory of Traffic flow	MVJ20CTE264	Infrastructure Management and EIA on transportation
		MVJ20CTE265	Remote Sensing and GIS in Engineering

### III SEMESTER M.TECH- (TRANSPORTATION ENGINEERING)

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	Project	MVJ20CTE31	Minor Project	Civil Engineering	0	0	8	3	50	50	100	4
2	Project	MVJ20CTE32	Major Project Phase-1	Civil Engineering	0	0	8	3	50	50	100	4
3	Internship	MVJ20CTEI33	Internship	Civil Engineering	0	0	20	3	50	50	100	10
<b>Total</b>							<b>12</b>	<b>9</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>18</b>
Note: Project: Project Work												

**IV SEMESTER M.TECH- (TRANSPORTATION ENGINEERING)**

S No	Course		Course Title	Teaching Department	Teaching hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total marks	
	L	T			P							
1	Project	MVJ20CTEP41	Major Project Phase-2	Civil Engineering	0	0	36	3	50	50	100	18
2	CRT	MVJ20CTEC42	Certification	Industry / Institute	0	0	0	-	-	-	-	2
<b>Total</b>							<b>36</b>	<b>3</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>20</b>
Note: Project: Project Work												