

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	MVJ22CTE11	Advanced Traffic Engineering	Civil Engineering	4	0	0	3	50	50	100	4
2	PCC	MVJ22CTE12	Pavement Materials and construction	Civil Engineering	4	0	0	3	50	50	100	4
3	PCC	MVJ22CTE13	Applied Soil Mechanics and Ground Improvement Techniques	Civil Engineering	4	0	0	3	50	50	100	4
4	PCC	MVJ22CTE14	Urban Transport Planning	Civil Engineering	3	0	0	3	50	50	100	3
5	PCC	MVJ22CTE15	Applied Statistics	Civil Engineering	3	0	0	3	50	50	100	3
6	PCC	MVJ22CTEL16	Highway Materials Testing Lab	Civil Engineering	0	1	3	3	50	50	100	2
7	PCC	MVJ22CTEL17	Concrete Materials Testing Lab	Civil Engineering	0	1	3	3	50	50	100	2
8	PCC	MVJ22IPR18	Research Methodology and IPR	Civil Engineering	2	0	0	3	50	50	100	2
Total					20	2	6	24	400	400	800	24

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	MVJ22CTE21	Pavement Design and Analysis	Civil Engineering	4	0	0	3	50	50	100	4
2	PCC	MVJ22CTE22	Transportation Economics And Evaluation	Civil Engineering	4	0	0	3	50	50	100	4
3	PCC	MVJ22CTE23	Railways and Airways	Civil Engineering	4	0	0	3	50	50	100	4
4	PCC	MVJ22CTE24	Geometric Design of Transportation Facilities	Civil Engineering	4	0	0	3	50	50	100	4
5	PE	MVJ22CTE25X	Professional Elective -1	Civil Engineering	3	0	0	3	50	50	100	3
6	PE	MVJ22CTE26X	Professional Elective -2	Civil Engineering	3	0	0	3	50	50	100	3
7	PCC	MVJ22CTEL27	Transportation Engineering Lab	Civil Engineering	0	1	3	3	50	50	100	2
8	Seminar	MVJ22CTE28	Technical Seminar	Civil Engineering	-	-	4	-	100	-	100	2
Total					22	1	7	21	450	350	800	26
Note: PCC: Professional Core Course , PE: Professional Elective												

Professional Elective-1		Professional Elective-2	
MVJ22CTE251	Road safety and Management	MVJ22CTE261	Rural Roads
MVJ22CTE252	Intelligent Transportation Systems	MVJ22CTE262	Transportation Systems
MVJ22CTE253	Pavement Evaluation and Management	MVJ22CTE263	Pavement Management Systems
MVJ22CTE254	Theory of Traffic flow	MVJ22CTE264	Infrastructure Management and EIA on transportation
		MVJ22CTE265	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	MVJ22CTE31	Minor Project	Civil Engineering	0	0	8	3	50	50	100	4
2	Project	MVJ22CTE32	Major Project Phase-1	Civil Engineering	0	0	8	3	50	50	100	4
3	Internship	MVJ22CTEI33	Internship	Civil Engineering	0	0	20	3	50	50	100	10
Total							12	9	150	150	300	18
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	MVJ22CTEP41	Major Project Phase-2	Civil Engineering	0	0	36	3	50	50	100	18
2	CRT	MVJ22CTEC42	Certification	Industry / Institute	0	0	0	-	-	-	-	2
Total							36	3	50	50	100	20
Note: Project: Project Work												