COURSE STRUCTURE AND SYLLABUS For M. TECH. - TRANSPORTATION ENGINEERING

(CIVIL ENGINEERING) VR 21



VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY

DUVVADA- VISAKHAPANAM, ANDHRA PRADESH, 530049

TRANSPORTATION ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

COURSE STRUCTURE

[Minimum Credits to be earned:68]

I Sem	ester						
S.No	Code		Course	L	T	P	Credits
1	2022211100	Pavement Mat	Pavement Materials and Construction			0	3
2	2022211101	Pavement Analysis and Design			1*	0	3
		2022211150	Ground Improvement Techniques	3	1*		
3	Programme Elective – I	2022211151	RS & GIS for Transportation Engineering			0	3
		2022211152 Numerical Methods and Applied Statistics					
	Programme	2022211153	Intelligent Transportation Systems		0	0	3
4	Elective –II	2022211154	Transportation System Modeling and Simulation	3			
		2022211155	Bridge Engineering				
5	2022211110	Highway Agg	gregates and Soil Testing Lab	0	0	4	2
6	2022211111	Bituminous T	Bituminous Testing and Pavement Evaluation Lab		0	4	2
7	2000211130	Constitution of India		2	0	0	2
8	2000211131	Soft Skills			0	0	0
Total							18

II Semester								
S.No	Code	Course	L	T	P	Credits		
1	2022211200	Highway Traffic Analysis and Design	3	1*	0	3		

2	2022211201	Transportat	Transportation Planning		1*	0	3
	Programme	20222112 50	Traffic Flow Theory				
3	Elective – III	1/0///11/51 h	3	1*	0	3	
		2022211252	Aviation Infrastructure and Planning				
		2022211253	Port and Harbor Engineering				
4	Elective – IV 2022211254 Sustainable Urban and Top Development 2022211255 Environmental Impact A	-	3	0	0	3	
		2022211255	Environmental Impact Assessment				
5	2022211210	Traffic Eng	Traffic Engineering Laboratory		0	4	2
6	2022211211	Transportat	Transportation Simulation Lab		0	4	2
7	2000211230	Research M	ethodology and IPR.	2	0	0	0
8	2022211270	Mini Project with Seminar		0	0	4	2
Total						18	

TRANSPORTATION ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

COURSE STRUCTURE

M.Tech (TE) 2019 Admitted Batch Program structure & detailed syllabus

III Semester								
S.No	Code		Course	L	T	P	Credit s	
	Programme	2022212150	Financial and Economic Analysis of Transportation Projects					
1	Elective – V*	2022212151	Highway Safety Engineering 3	3	1*	0	3	
		2022242452	Computational Techniques in					
		2022212152	Transportation Engineering					
			1.MOOCs-(NPTEL/SWAYAM)-any 12 week course on					
	Open Elective	2022212160	Engineering/Management/Mathemati cs offered by other than parent department.					
2			2. Course offered by other departments in the college	3	0	0	3	
3	Dissertation	2022212170	Dissertation –I/Industrial Project #	0	0	20	10	
Total					,		16	

[#] Students going for Industrial Project/Thesis will complete these courses through MOOCs.

Cou	Courses offered by Civil Engineering to other departments as Open Elective								
S.No.	Code	Course	L	T	P	Credits			
1	2022211152	Numerical Methods and Applied Statistics	3	0	0	3			
2	2022212160	Environmental Impact Assessment	3	0	0	3			

IV Semester								
S.No	Code		Course	L	T	P	Credits	
1	Dissertation	2022212270	Dissertation Phase -II	0	0	32	16	
	Total 16							

PG-Coordinator HoD-Civil