Course Category:]	Program Elective							Credits:			3	
Course Type:				Theory							Lecture-Tutorial- Practical:			3-0-0	
											Continuous			20	
				19BS1101- Engineering Mathematics - I 19CE3502 - Highway Engineering							Evaluation:			30 70	
Prerequisites:			:							Semester End					
				Evaluation:											
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CO1 CO2		prehend the urban travel demand and independent variables yze the traffic surveys and trip generations modules								K4					
CO2 CO3										le choice	analysis			K-	
CO4				assign					ind mot		² unury 515			K	
C05									dvance	transit s	vstems			K	
000											ogram C	outcome	5		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO	
CO1	3				2	2							3	2	
CO2	3				2	2							3	2	
CO3	3				2	2							3	2	
CO4	3				2	2							3	2	
CO5	3				2	2							3	2	
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UNIT-	Tr de TT Sa Te 2 2 Tr Tr Tr Tr	 INDEPENDENT VARIABLES Travel Attributes - Sequential travel demand modeling - Simultaneous travel demand modeling - Study area - Cordon lines Screen lines -Zoning. TRAVEL DEMAND SURVEYS Sampling methods - Home interview surveys - Road side interview surveys - Terminal surveys - Cordon surveys - Taxi surveys - Onboard surveys - Economic surveys - Data checking. TRIP GENERATION Trip characteristics - factors influencing Trip productions and attractions - Trip rates - Zonal regression models -Category analysis - Personal trip generation models 									CO2				
UNIT-	3 Fa fro op M Fa m m T N	MODE CHOICE ANAYSIS Factors influencing passenger mode choice - Zonal regression models - Utility maximization - Binary and Multinomial Logit models - Probit arid nested Logit models. TRAFFIC ASSIGNMENT Need for Assignment - Diversion curves - shortest path Algorithms - All or nothing									CO3				
UNIT-	 Assignment technique - Multi path Assignment - Link flows - Sufficiency and Deficiency analysis. PLAN PREPARATION AND EVALUATION Types of plans- conceptual plan, Master plan - short term planning vs Long term 											CO4			

19CE4702C – URBAN TRANSPORTATION PLANNING

	planning -Corridor Identification and Evaluation - Plan preparation						
UNIT-5	MASS TRANSIT SYSTEMS Need for Mass Transit systems - Recommendations of Committee on urbanization & Alternate systems of UT ADVANCE TRANSIT Characteristics & Capacities of different MT systems - LRT, monorail, Metro, BRTS, etc.						
	Learning Resources						
Text Bo	 Kadiyali L.R - Traffic Engineering and Transportation Planning -Khanna Publishers, New Delhi. Papacostas C.S Fundamentals of Transportation Engineering Prentice Hall of India Pvt. Ltd; New Delhi. John Khisty C - Transportation Engineering - An Introduction, Prentice Hall, Englewood Cliffs, New Jersey. Nicholas J. Garber, A. Hoel, Raju Sarkar, Cengage learning, Principles of Traffic and Highway Engineering. 						
Refere Book	 Chari, S.R. UTP Lecture Notes - Regional Engg. College, Warangal.Hutchinson, Introduction to Urban System Planning, McGraw Hill Mayer M and Miller E, Urban Transportation Planning: A decision oriented Appro McGraw Hill.Bruton, Urban Transportation Planning. Dicky, Metropolitan Transportation Planning, DC Script Book Co. Saxena, Traffic Planning and Design, Dhanpat Rai Publishers, New Delhi. 						
e-Resour other dig mater	ttp://nptel.ac.in/courses.php http://jntuk-coeerd.in/						