19CE4601C - TRAFFIC ENGINEERING

Carrage Catagorius			- 1	Dan arrana Elantina							G 1'4			3	
Course Category:				Program Elective							Credits:			3	
Course Type:				Theory							Lecture-Tutorial- Practical:			3-0-0	
											Continuous				
				19CE3306 – Surveying 19CE3502 – Highway Engineering							Evaluation:			70	
Prerequisites:										9	Semester End				
											Evaluation:				
												00			
Course	Course Outcomes														
Upon successful completion of the course, the student will be able to:															
CO1	Asses	assess the characteristics of traffic and measurement									K5				
CO2				portance of Level of Service and Capacity										K2	
CO3		tudy in details about the parking standards and traffic control								K1					
CO4		rstand t						nt and s	igns					K2	
CO5		about												K1	
											ogram O				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	1	
CO1			2										1	1	
CO2						2						2	1	1	
CO ₃					2	2							1	1	
CO4						2	2					2	1	1	
CO5							2					2	1	1	
		1- Lo	w				2-Me	dium				3-High			
						Con	rse (Cont	ent						
UNIT	-1 Ti	Traffic parameters. TRAFFIC MEASUREMENT Traffic Volume Studies- Types of Volume Studies - Concept of PCU- Data Collection and Presentation - Speed Studies - Types of Speeds- Methods of Conducting speed studies												CO1	
UNIT	-2 H D C C T T T T T T T T T T T T T T T T T	HIGHWAY CAPACITY Definition of Capacity – Importance of capacity – Factors affecting Capacity- Concept of Level of Service - Different Levels of Service										CO2			
						ng traf	11C.								
UNIT-	-3 Tof	PARKING STUDIES Types of parking facilities – On street and Off-Street Parking Facilities- Analysis of Parking Data and parking characteristics-Multi Story Car Parking Facility TRAFFIC CONTROL Traffic Problems in Urban areas- Importance of Traffic Control and regulation.								CO3					
		TRAFFIC & ENVIRONMENT													
UNIT	-4 M T T	Air Pollution – Measures to reduce Air Pollution due to Traffic- Noise Pollution – Measures to reduce Noise Pollution. TRAFFIC SIGNS Types of Traffic Signs- cautionary, Regulatory and Informative Signs- Specifications												CO4	
		ROAD MARKINGS													
UNIT	-5 Pa	Payament markings. Types of Markings. I are markings and Object markings												CO5	
	P1	oblem	of Hi	ighway	/ Safet	y - T	ypes o	t Roa	d accid	dents- C	causes –	Engine	ering		

Meas	ures to reduce Accidents- Enforcement Measures – Educational Measures-							
Road	Road Safety Audit.							
Learning Resources								
Text Books	1. Traffic Engineering and Transportation planning, (2nd edition) by Kadiyali, L.K., Khanna publishers, 1983.							
Text Books	2. Highway Engineering and Traffic Analysis, (3rdedition) by Mannering and Kilareski, John wiley Publications, 2007.							
Reference Books	 Transportation Engineering by Khisty, C. J., Prentice Hall 1986. Principles of Transportation Engineering by Partha Chakroborthy, Animesh Das.Prentice Hall, India, 2004. Fundamentals of Transportation Engineering by Papacostas, C.S., Prentice Hall, India, 1987. 							
e-Resources&								
other digital material								