20CE4501C - TRAFFIC ENGINEERING

Offo	rina I	?ranch	06	CE											
Offering Branches Course Category:				Professional Elective							Credits:			3	
Course Type:				Theory							Lecture- Tutorial- Practical:		3-0-0		
D.	oroat	requisites: 20CE3306 – Surveying 20CE3502 – Highway Engineering 20CE3502 – Highway Engineering 20CE3502 – Highway Engineering				3	30								
- 11	erequ	usites.		20CE3	502 –	Highw	ay En	gineeri	ng		Evaluat Total Ma	ion:	70 100		
Course Outcomes															
Upon successful completion of the course, the student will be able to:															
CO1	Con	ipute tl	ne cha	racteris	stics of	traffic	and n	neasur	ement					K3	
CO2		lain the												K4	
CO3	App	raise ir	ı detai	ls abou	t the p	arking	stand	ards ar	d traff	fic contr	ol			K4	
CO4		rioritize the importance of traffic environment and signs							K4						
CO5		mine al												K3	
	Co	ntribut	ion of	Cour	se Out	comes	towa	rds acl	hieven	nent of	Progran	n Outco	mes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	2		2										2	2	
CO2	2					3						3	2	3	
CO3	3				3	3							3	3	
CO4	2					3	3					3	2	3	
CO5	2						2					2	2	2	
Avg.	2		2		3	3	3					3	2	3	
1- Low 2-Medium 3-High															
						Cou	rse (Cont	ent						
	T	RAFF	IC CE	IARA	CTER	ISTIC	S								
	В	asic ch	aracte	ristics	of Tra	ffic- V	olume	, Spee	d and	Density	- Relatio	onship a	mong	CO1	
		raffic p													
UNIT		RAFF	_												
												PCU-			
						$n - S_1$	peed S	studies	- Ту	pes of	Speeds-	Metho	ds of		
		onduct													
						mnorte	nnaa a	f conc	oity	Engtor	c offooti	ng Capa	noity		
		oncept									s affecti	ing Capa	acity-	CO2	
UNIT		RAFF					JICIII L	C VCI3 (JI JCI V	ricc					
			_		_		Regi	lation	of veh	nicles. R	egulatic	on conce	rning		
		river, R							01				5		
		ARKI													
		Types of parking facilities – On street and Off Street Parking Facilities- Analysis of													
UNIT	.3 P	71 1 6													
		Parking Data and parking characteristics-Multi Story Car Parking Facility TRAFFIC CONTROL													
							mport	ance of	f Traff	ic Contr	ol and r	egulatio	n.		
		Traffic Problems in Urban areas- Importance of Traffic Control and regulation. TRAFFIC & ENVIRONMENT													
UNIT-								Pollutio	on due	to Traf	fic- Nois	se Pollut	ion –	CO4	
		1easure			oise P	ollutio	n.								
22.12.1	1	RAFF			a.			ъ	1		т.с		,.		
		- 1		attic	Signs-	caut	ionary	, Reg	gulator	y and	Inform	ative S	igns-		
	S	pecifica	ations												

UNIT-5	Pavement r HIGHWA Problem of Measures t	ROAD MARKINGS Pavement markings- Types of Markings – Lane markings and Object markings HIGHWAY SAFETY Problem of Highway Safety – Types of Road accidents- Causes – Engineering Measures to reduce Accidents- Enforcement Measures – Educational Measures- Road Safety Audit							
		Learning Resources							
Text Bo	oks	 Traffic Engineering and Transportation planning, (2nd edition) by Ka L.K., Khanna publishers, 1983. Highway Engineering and Traffic Analysis, (3rdedition) by Mannerin Kilareski, John wiley Publications, 2007. 	,						
Referei Book	ice	 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- Resou & oth- digita materi	er i	https://nptel.ac.in/courses/ 105/101/105101008 https://nptel.ac.in/courses/ 105/105/105105215							

Course Co-ordinator HOD