## National Institute of Technology Meghalaya

An Institute of National Importance

CURRICULUM

	OF TECHNOL																
Ρ	rogram	me Bachelor of Technology in Civil Engineering									Year of Regulation				2019		
D	epartm	nent Civil Engineering										Semester			VII		
Course Code		Course Name Pre								ite		Structure			Marks Distribution		
CE451										L	Т	Р	С	Continue	ous Asse	ssment	Total
		Traffic Engineering Lab							Nil	0	1	2	2	01 Experiment		20	100
Course Objectives		To unc	lersta	and practi	cal applica	ation of th	eoretical relation	tions.			CO1	To get accustomed to traffic related software					
		To learn and use traffic related software.       CO2       To get first hand experied												experience	erience toward traffic related stud		
		Understand the traffic survey procedure     Course     CO3     To gain practical knowled related problem												knowledge	wledge related to complex traffic		
		Learn to design traffic signal based upon raw traffic survey data CO4 To identify and give solution problem.												ve solutior	solution to practical traffic related		
		Learn to carryout parking study CO5 Develop the understandi standards and to design these codes											erstanding design the	anding of various BIS, IRC and ISO sign the highways in conformity with			
	Manning with Program Outcomes (POs)												Mar	apping with PSOs			
No.	COs	PC	01	PO2	PO3	PO4	PO5	- 10910 206	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PS03
1	CO1	3		2	2	2	3	0	0	0	0	0	0	3	2	3	1
2	CO2	3		3	2	2	0	1	1	2	2	1	1	3	1	2	1
3	CO3	3		3	2	3	0	2	0	0	0	1	2	3	2	3	1
4	CO4	3		3	2	0	1	2	2	1	2	1	1	3	2	3	1
5	CO5	3		2	1	1	1	0	2	0	0	0	0	3	2	2	1
6	CO6	0	)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		SYLLABUS															
No.		Content											Hours		COs		
1	To de	termine peak hour factor of a traffic stream.													04		
2	То ре	rform traffic survey and establish Speed-Volume relationship.													04	CO1	
3	To de	esign traffic signal as per IRC method.														CO2 CO3	
4	То со	o conduct Parking studies.														04 <b>CO4</b>	
5	To ide	entify traffic movement pattern using origin and destination study.														04 CO5	
6	Revisic	on and D	oub	t Clearing	sessions										04		
							Total Ho	urs							24		
Esse	ntial R	eadings	5														
1	. C.A.O	. Flaher	ty, "	Transport	aion Planr	ing and T	raffic Engine	ering"	, Butterw	vorth-Heine	mann; 4tl	h edition					
2	. Kadiya	ali L.R.	"Tra	ffic Engir	neering and	d Transpo	rtation Planni	.ng", K	Khanna Pi	ublications							
3	. IRC,B	1S, ISO c	odes	and specif	ications.												
<u>sup</u>				ys ir	<u>ה איר ר</u>	<u>с.</u> г.			11 T >7	· · · · ·	000						
1.	McSh	ane, W.	к an	a Koess, I	<.Р, "Traf	tic Engine	ering", Prent	ice-Ha	ui, incN	ewjersey 19	<i>i</i> 90						

2. Relevant IRC Codes, Indian Roads Congress, Delhi

3. Khisty, C.J. and Lall, B.K., "Introduction to Transportation Engineering", Prentice-Hall India