

Dicipline:	Civil Engg.	Semester:	4 th	Name of the Teaching Faculty - <u>Mohammed Pechan</u>	
Subject:	HE	No of Days/Week Class Allotted:	5	Semester From date: _____ To date _____	No. of Weeks:

WEEK	Class Day	Theory Topics
01	1st	Introduction
	2nd	Importance of highway transportation :- importance of organization like indian road congress, CRT
	3rd	Function of indian roads congress
	4th	I.e classification of roads
	5th	Organization of state highway department.
02	1st	Road Geometries - Glossary of terms used in geometric design & Importance
	2nd	Sight of way, Formation width, road markings.
	3rd	Road shoulder, Carriage way, side slope, kerb, Formation level
	4th	Camber and gradient
	5th	Class - Revision
03	1st	Design and average running speed.
	2nd	Stopping sight distance
	3rd	Problem Practice
	4th	Problem Practice
	5th	Class Test

WEEK	Class Day	Theory Topics
04	1st	Passing sight Distance
	2nd	Problem Practice
	3rd	Necessity of curves - horizontal curve & vertical curve
	4th	Transition curves & problems
	5th	Problem Practice
05	1st	Revision class
	2nd	Super elevation, method of providing Super elevation
	3rd	Problem Practice
	4th	Test
	5th	Revision class.
	1st	Road Materials - Different types of road material in use: soil, aggregated binder
	2nd	Function of soil & highway subgrade
	3rd	California Bearing Ratio - Method of finding CBR value in laboratory
	4th	Finding CBR value at site & their significance
	5th	Revision class

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	1st	Testing aggregate : Abrasion test, Impact test.		
	2nd	Crushing strength test & water absorption test		
	3rd	Sorendness test		
	4th	Class test -		
	5th	Road pavements - Flexible and rigid Pavement their merits & demerits.		
	1st	Typical cross-section, function of various component of flexible pavement		
	2nd	Subgrade preparation - setting out of road, & bench mark.		
	3rd	Control pegs for embankment & cutting, borrow pits, making profile of embankment		
	4th	Construction of embankment, compaction, stabilization.		
	5th	Preparation of subgrade, method of checking camber, gradient and alignment as per spec		
	1st	Equipment used subgrade preparation		
	2nd	Sub Base course - Necessity of sub base stabilized subbase,		
	3rd	Purpose of stabilization, Types of stabilization - Mechanical, lime, cement, fly ash.		
	4th	Base course - Preparation of base course brick setting, stone setting & metalling		
	5th	Water bound Macadam and wet mix macadam		

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	1st	Road Maintenance → common types of road failure - their causes & remedies		
	2nd	Maintenance of bitumen road patch work and resurfacing.		
	3rd	Maintenance of concrete roads - filling crack repairing joints		
	4th	Maintenance of shoulder (beam) & traffic control devices.		
	5th	Basic concept of traffic study		
	1st	Traffic safety and traffic control signal		
	2nd	class test -		
	3rd	Construction equipment - Preliminary ideas		
	4th	Ideas following plant equipment - Hot mixing plant, Tipper, Tractor.		
	5th	Scrapper, bulldozer, dumpers, shovels graders		
	1st	Roller dragline, Asphalt mixer & tar boiler.		
	2nd	Road pavers		
	3rd	Modern construction equipment for roads		
	4th	Revision class		
	5th	Test.		