

LESSION PLAN

Name of Faculty :	VIKAS KUMAR
Discipline :	CIVIL ENGG.
Semester :	5th
Subject :	HIGHWAY ENGINEERING
Lesson Plan Duration:	15 Weeks(July 2018 to Nov 2018)

Week	Lecture Day	Topic
1st	1	INTRODUCTION
	2	IRC CLASSIFICATION
	3	ROAD GEOMETRICS
	4	AVG SPEED , SIGHT DISTANCE
	5	CURVES
2nd	1	SUPERELEVATION
	2	CROSS SECTION OF ROAD
	3	CUTTING & FILLING
	4	CURVE ALIGNMENT
	5	HIGHWAY SURVEY
3rd	1	TOPOGRAPHIC MAP
	2	ALIGNMENT OF ROAD IN PLAIN AREA
	3	ALIGNMENT OF ROAD IN HILLY AREA
	4	MARKING OF ALIGNMENT
	5	DATA ANALYSIS OF TOPOGRAPHIC MAP
4th	1	ROAD MATERIAL & ITS TYPES
	2	SOIL & AGGREGATES
	3	BINDER MATERIAL
	4	BITUMEN
	5	PROPERTIES AS PER BIS
5th	1	TEST / ASSIGNMENT
	2	PENETRATION TEST
	3	VISCOSITY TEST
	4	BITUMEN MODIFIERS
	5	FLEXIBLE PAVEMENTS
6th	1	RIGID PAVEMENTS
	2	TYPICAL CROSS SECTION OF ROADS
	3	CBR METHOD
	4	AGGREGATE AND ITS PROPERTIES
	5	ALIGNMENT OF ROAD
7th	1	BENCH MARK & GRADIENTS
	2	STABILIZATION
	3	GRANULAR BASE COARSE
	4	BITUMEN COARSE
	5	METHOD OF CONSTRUCTION
8th	1	TYPE OF SURFACING
	2	SURFACE COATING
	3	JOINTS IN RIGID PAVEMENTS
	4	COMPACTING & FINISHING
	5	TEST / ASSIGNMENT

Week	Lecture Day	Topic
9th	1	TYPICAL CROSS SECTION OF HILL ROADS
	2	LANDSLIDE
	3	DRAINAGE & EROSION
	4	SNOW & LAND SUBSIDENCE
	5	DRAINAGE OF ROAD
10th	1	CROSS DRAINAGE WORKS
	2	STORM DRAINS
	3	EMBANKMENT
	4	TYPICAL CROSS SECTION
	5	MAINTANANCE OF ROAD
11th	1	FAILURE OF FLEXIBLE PAVEMENT
	2	CAUSES & REMEDIES
	3	SEAL COAT & PATCH WORK
	4	MAINTANANCE OF CONCRETE ROAD
	5	MAINTANANCE OF TRAFFIC CONTROL DEVICE
12th	1	CONSTRUCTION EQUIPMENT
	2	TRACTOR & TRUCKS
	3	ASPHALT MIXERS
	4	ROAD PAVERS BOILERS
	5	TEST / ASSIGNMENT
13th	1	AIRPORT ENGINEERING
	2	AVIATION SCENARIO
	3	SITE SELECTION
	4	ZONING LAWS
	5	RUNWAY
14th	1	TAXIWAYS
	2	APRON
	3	SUBGRADE PREPERATION OF ROADS
	4	BERMS
	5	ROAD SHOULDERS
15th	1	IRC CLASSIFICATION
	2	CRRI
	3	MORTH
	4	NHAI
	5	DIFF B/W RIGID & FLEXIBLE PAVEMENT