

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT - TEKKALI
(AN AUTONOMOUS INSTITUTEION)

DEPARTMENT OF CIVIL ENGINEERING

IV YEAR II SEM Lesson Plan

Sub: PADE

G.Anil Kumar

A.Y: 2015-16

Period	Date	Topic	Unit no	Teaching Methodology	Cumulative
1	15/12/2015	Introduction of this subject	1	CR	1
5, 6	16/12/2015	Types of pavement construction, Specification for construction of gravel road	1	CR	3
1,2	21/12/2015	Construction of WBM road layer, Construction of different types of bituminous roads	1	CR	5
1	22/12/2015	Construction of cement concrete pavements	1	CR	6
5,6	23/12/2015	Pavement failures (types and causes), Failures in flexible pavements alligator	2	CR	8
1,2	28/12/2015	Cracking, consolidation of pavement failures Shear failures, longitudinal failures	2	CR	10
1	29/12/2015	Frost heaving reflection, Cracking formation of wave and corrugation	2	CR	11
1,2	04/01/2016	Failures in rigid pavements, Scaling of cement concrete shrinkage cracks	2	CR	13
1	05/01/2016	Spelling of joints warping crack	2	CR	14
5,6	06/01/2016	Mud pumping and structural cracks	2	CR	16
1,2	11/01/2016	Maintenance of highway, routine maintenance	3	CR	18
1,2	18/01/2016	Periodic maintenance, special repairs, Maintenance of earth roads, maintenance of WBM roads	3	CR	20
5,6	20/01/2016	Maintenance of bituminous surface, special repairs in flexible pavement	3	CR	22
1,2	25/01/2016	Maintenance of CC roads and special CC roads	3	CR	24
5,6	27/01/2016	Pavement evaluation, functional evaluation	4	CR	26
1	02/02/2016	Elevation of pavement surfaces condition	4	CR	21
5,6	03/02/2016	Pavement surface index cracking	4	CR	29
1,2	08/02/2016	Pot holes and rut depth	4	CR	31
1	09/02/2016	Structural evaluation method of evaluation, static loading, benkleman beam method	4	CR	32
5,6	10/02/2016	Falling weight deflection	4	CR	34

1,2	15/02/2016	Impulse loading and dynamic cone penetration	4	CR	36
1	16/02/2016	Strengthening of existing pavements, objectives, types of overlays	5	CR	37
5,6	17/02/2016	Design of overlays, flexible overlay over flexible pavement	5	CR	39
1,2	22/02/2016	Overlay design by Benkleman beam deflection studies	5	CR	41
1	23/02/2016	Rigid overlay over rigid pavements	5	CR	42
5,6	24/02/2016	Flexible overlay over rigid pavements	5	CR	44
1,2	29/02/2016	Rigid overlay over flexible pavements	5	CR	46
1	01/03/2016	Highway drainage, Introduction	6	CR	47
5,6	02/03/2016	Importance of highway drainage and requirements of highway drainage system	6	CR	49
1,2	07/03/2016	Surface drainage, design of Surface drainage system, cross drainage	6	CR	51
1	08/03/2016	Subsurface drainage, lowering of water table	6	CR	52
5,6	09/03/2016	Control of seepage, flow control of capillary raise	6	CR	54
1,2	14/03/2016	Design of sub surface drain age system	6	CR	56
1	15/03/2016	PMS: need for PMS, pavement deterioration modeling	7	CR	57
5,6	16/03/2016	HDM and project level	7	CR	59
1,2	21/03/2016	Network level management	7	CR	61
1	22/03/2016	Pavement management system and advantages	7	CR	62
5,6	23/03/2016	Asset management: Introduction	8	CR	64
1,2	28/03/2016	Need for AM and concepts	8	CR	66
1	29/03/2016	Network management and Fradic management	8	CR	67
5,6	30/03/2016	Safety management and bridge management	8	CR	69

NOTE: C.R- Class Room Teaching (Black board, PPT)



Signature