

PANIPAT INSTITUTE OF TECHNOLOGY, SAMALKHA, PANTPAT

Department of Civil Engineering

Faculty Name: Devender
Year/Sem. : 4th /7th

Subject Name: IE-II
Subject Code: CE-403N

LESSON PLAN

Sr. No.	Lecture No.	Topic to be covered	Tentative Date
1	L1	UNIT-I: Regulation works: Canal falls-necessity and location	17/07
2	L2	development of falls	18/07
3	L3	Design of cistern element , roughening devices,	22/07
4	L4	design of Sarda type fall	24/07
5	L5	design of straight Glacis fall.	25/07
6	L6	Off-take alignment	29/07
7	L7	cross-regulator and distributory head regulators,	31/07
8	L8	devices to control silt entry into the off-taking channel and silt ejector,.	01/08
9	L9	canal escapes, types of escapes	05/08
10	L10	Numerical	07/08
11	L11	Numerical	08/08
12	L12	Numerical	12/08
13	L13	Numerical	14/08
14	L14	UNIT-II: Cross drainage works: Classification and their selection	19/08
15	L15	hydraulic design aspects of aqueducts, syphon aqueducts,	21/08
16	L16	super passage, canal syphon and level crossing,	22/08
17	L17	design of transitions.	26/08
18	L18	Numerical on transitions	29/08
19	L19	Diversion canal headworks: Various components and their functions	02/09
20	L20	layout plan, selection of site for diversion headworks	04/09
21	L21	Bligh's creep theory	09/09
22	L22	Khosla's method of independent variables	11/09
23	L23	use of Khosla's curves, various corrections	12/09

24	L24	silt excluders	16/09
25	L25	numericals	18/09
26	L26	UNIT-III: Storage Headworks: Types of dams, selection of a site	19/09
27	L27	gravity dam	25/09
28	L28	two dimensional design	26/09
29	L29	forces acting on dam	30/09
30	L30	stability criterion, elementary profile of a dam	03/10
31	L31	cutoffs and drainage galleries	07/10
32	L32	arch dams-constant angle and constant radius arch dam,	09/10
33	L33	simple design and sketches, most economical angle	14/10
34	L34	Earth dam, design principles	10/10
35	L35	seepage through earth dams, seepage line, control of seepage	16/10
36	L36	design of filters.	17/10
37	L37	numericals	23/10
38	L38	UNIT-IV: Spillways and Energy Dissipators: Essential requirements of spillway	24/10
39	L39	Spillway's capacity	30/10
40	L40	types of spillways and their suitability	31/10
41	L41	Ogee spillways, chute, side channel	04/11
42	L42	shaft and syphon spillways	06/11
43	L43	energy dissipation below spillways	07/11
44	L44	stilling basins, USBR	11/11
45	L45	I.S.Stilling Basins	13/11
46	L46	numericals	14/11
47	L47	Revision	18/11

DEVENDER
COURSE INCHARGE