

**Lesson Plan & Work-done Diary for AY: 2025-26, EVEN Semester**

Course with Code: Irrigation engineering Hydraulics structures (BVCV602)					Faculty: AKHILA C G		Semester & Section: 6 <sup>th</sup> , A	
Module	Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conducti on (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
<b>MODULE-1</b>	1	27/01/2026	Irrigation: Definition, Benefits and ill effects of irrigation	PPT			PPT	
	2	27/01/2026	System of irrigation: surface and groundwater, flow irrigation	PPT			PPT	
	3	28/01/2026	Lift irrigation*n, Bandara irrigation	PPT			PPT	
	4	30/01/2026	Water requirements of crops: Duty, delta and base period	PPT			PPT	
	5	02/02/2026	Relationship between Duty, delta and base period	Chalk and talk			Chalk and talk	
	6	03/02/2026	Problems on Duty, delta and base period	Chalk and talk			Chalk and talk	
	7	03/02/2026	Factors affecting duty of water crops	PPT			PPT	
	8	04/02/2026	Crops seasons in India	PPT			PPT	
	9	06/02/2026	Problems on Irrigation efficiency	Chalk and talk			Chalk and talk	
	10	09/02/2026	Frequency of irrigation	PPT			PPT	
	11	10/02/2026	<b>Unit test 1</b>					
<b>MODUL E-2</b>	12	10/02/2026	Canals: Types of canals, alignment of canals	PPT			PPT	

	13	11/02/2026	Definition of gross command area, cultural command area	PPT			PPT	
	14	13/02/2026	Intensity of irrigation, time factor, crop factor	PPT			PPT	
	15	16/02/2026	Unlined and lined canals, Standard sections	PPT			PPT	
	16	17/02/2026	Design of canals by Lacey's method, problems	Chalk and talk			Chalk and talk	
	17	17/02/2026	Design of canals by Kennedy's method, problems	Chalk and talk			Chalk and talk	
	18	20/02/2026	Reservoirs: Definition, Investigation for reservoir site, storage zones	PPT			PPT	
	19	23/02/2026	Determination of storage capacity using mass curves	Chalk and talk			Chalk and talk	
	20	24/02/2026	Determination of storage capacity using mass curves(Graphical method)	Chalk and talk			Chalk and talk	
	21	24/02/2026	Economical height of dam	Chalk and talk			Chalk and talk	
	22	25/02/2026	<b>Unit test 2</b>					
<b>MODULE-3</b>	23	27/02/2026	Gravity dams: Forces acting on a gravity dam	PPT			PPT	
	24	02/03/2026	Forces acting on a gravity dam	Chalk and talk			Chalk and talk	
	25	03/03/2026	Problems on Forces acting on a gravity dam	Chalk and talk			Chalk and talk	
	26	03/03/2026	Causes and failure of a gravity dam	Chalk and talk			Chalk and talk	
	27	09/03/2026	Elementary profile of a gravity dam	Chalk and talk			Chalk and talk	
	28	10/03/2026	Practical profile of a gravity dam	Chalk and talk			Chalk and talk	
	29	10/03/2026	Limiting height of a gravity dam	Chalk and talk			Chalk and talk	

	30	11/03/2026	Factors of safety, Stability analysis	Chalk and talk			Chalk and talk	
	31	13/03/2026	Foundation for a Gravity dam	PPT			PPT	
	32	16/03/2026	Drainage and inspection galleries	PPT			PPT	
	33	18/03/2026	<b>Unit test 3</b>					
<b>MODULE 04</b>	34	20/03/2026	Earthen dam: Types of earthen dams, causes and failure of earthen dam	PPT			PPT	
	35	23/03/2026	Criteria for safe design of earth dam	Chalk and talk			Chalk and talk	
	36	24/03/2026	Seepage through earth dam- graphical method	Chalk and talk			Chalk and talk	
	37	24/03/2026	Measures for control of seepage	PPT			PPT	
	38	25/03/2026	Seepage: types of spillways	PPT			PPT	
	39	27/03/2026	Design principles of ogee spillways-spillway gates	Chalk and talk			Chalk and talk	
	40	30/03/2026	Energy dissipaters and stilling basins	PPT			PPT	
	41	07/04/2026	Significance of jump height curve	PPT			PPT	
	42	07/04/2026	tail water rating curve	Chalk and tal			Chalk and tal	
	43	08/04/2026	USBR and Indian types of stilling basin	Chalk and tal			Chalk and tal	
	44	13/04/2026	<b>Unit test 4</b>					
<b>MODULE 05</b>	45	15/04/2026	Diversion Head works: Types of Diversion head works- weirs and barrages	PPT			PPT	
	46	17/04/2026	Layout of diversion head work	Chalk and talk			Chalk and talk	
	47	21/04/2026	Components causes and failure of weirs and barrages on permeable foundation	PPT			PPT	
	48	21/04/2026	Silt ejectors and excluders	PPT			PPT	
	49	22/04/2026	Weirs on permeable foundation	PPT			PPT	



	50	24/04/2026	Foundation _ Creeps theories	Chalk and talk			Chalk and talk	
	51	27/04/2026	Bligh's, Lanes and Khosla theories	Chalk and talk			Chalk and talk	
	52	28/04/2026	Determination of uplift pressure	Chalk and talk			Chalk and talk	
	53	28/04/2026	Various correction factors	Chalk and talk			Chalk and talk	
	54	04/05/2026	Design principles of weirs on permeable foundation using creep theories	Chalk and talk			Chalk and talk	
	55	05/05/2026	Exit gradient, U/S and D/S sheet piles	Chalk and talk			Chalk and talk	
	56	05/05/2026	Launching Aprons	Chalk and talk			Chalk and talk	
	57	06/05/2026	<b>Unit test 5</b>					
	58	08/05/2025	<b>Revision</b>					

	Activity	Planned	Actual	Remarks
<b>1</b>	Theory Classes	58		
<b>2</b>	Assignments/Quizzes/ Self study	3/4		
<b>3</b>	Tutorials/ Extra classes	-	-	
<b>4</b>	Internal Assessments	3	3	
<b>5</b>	ICT based Teaching (% of usage in Curriculum)	40%	40%	
<b>Planning</b>			<b>Execution</b>	
<b>Faculty Signature:</b>			<b>Faculty Signature:</b>	
<b>HOD Signature:</b>			<b>HOD Signature:</b>	



A T M E  
College of Engineering

# DEPARTMENT OF CIVIL ENGINEERING

---

