

LESSON PLAN 2025(W)

Discipline:civil engineering				Name of Faculty- JYOTIRMAYEE SAMAL		
Subject:Est-II(TH5)				Semester From Date:14.7.2025 To Date 15-11-2025		
SEMESTER-5th				No. Of Weeks:19	4P/WEEK	
No. of Days/week class allotted:04 period per week(Monday, Wednesday, Thursday & Saturday 1 Period each)					TOTAL PERIOD-60	
MON TH	WEEK	CLASS DAY	DAYS/ PERIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABLE	
A u g u s t				1.0 Detailed estimate of culverts and bridges(12P)		
				1.1:Detailed estimate of a simple slab culvert with right angled wing walls		
	1st	14.07.2025	Mon		Introduction to culvert , bridge,their types, wing wall	1
		15.07.2025	Tues		Study of plan, elevation and section of the culverts	1
		16.07.2025	Wed		I- Class brick work in cement mortar	1
	2nd	18.07.2025	Fri		Bar bending scheduleRCC work in slab, steel bars including bending in RCC work	1
		21.07.2025	Mon		Cement pointing	1
		22.07.2025	Tues		Doubt clearing class	1
					1.2 RCC Hume pipe culvert with splayed angled wing wall	
		23.07.2025	Wed		Introduction to hume pipe and study of plan elevation and section of hume pipe from drawing	1
	3rd	25.07.2025	Fri		Earthwork Excavation in foundation, cement concrete in foundation	1
		28.07.2025	Mon		I- Class brick work in cement mortar	1

	29.07.2025	Tues	I- Class brick work in cement mortar	1
	30.07.2025	Wed	cement pointing and hume pipe estimate and doubt clearance	1
	01.08.2025	Fri	cement pointing and hume pipe estimate and doubt clearance	1
			2.0 Estimate of irrigation structures(14P)	
			2.1Detailed estimate of simple type of vertical fall to given specification	
4th	4.08.2025	Mon	Introduction to irrigation structures,Cross drainage w	1
	05.08.2025	Tues	Study of plan, elevation and section of the fall	1
	6.08.2025	Wed	2.1 Detailed estimate of simple type of vertical fall to given specification,Earthwork in excavation	1
5th	08.08.2025	Fri	Cement concrete in foundation and floor	1
	11.08.2025	Mon	I-class brickwork in cement mortar,Brick -on-edge floor in cement mortar	1
1st	12.08.2025	Tues	Brick pitching	1
	13.08.2025	Wed	Problem of fall from M. Chakraborty book,Study of plan, elevation and section of the fall	1
			2.2 Detailed estimate of drainage siphon to given specification.	
2nd	18.08.2025	Mon	Review of cross drainage work and introduction to drainage syphon ,Study of plan, elevation and section of the Siphon	1
	19.08.2025	Tues	2.2 Detailed estimate of siphon well drop to given specification,Earthwork in excavation in foundation	1
	20.08.2025	Wed	Cement concrete in foundation	1
3rd	22.08.2025	Fri	I-class brickwork in cement mortar	1
	25.08.2025	Mon	R.C.C. work in slab,Brick flooring in cement mortar	1

t e m b e r		26.08.2025	Tues	Cement pointing & Brick pitching	1
	4th	29.08.2025	Fri	Doubt clearance and Problem of fall from M. Chakraborty book, Study of plan, elevation and	1
				3.0 Detailed estimate of roads (12P)	
				3.1 Detail estimate of a water bound macadam	
		01.09.2025	Mon	Terminologies related to road, lead, lift and methods of calculation	1
		02.09.2025	Tues	Calculation of quantity of earthwork by Mid-Sectional Area method, Mean Sectional Area, Prismoidal Area	1
	5th	03.09.2025	Wed	Problems Practice	1
		8.9.2025	Mon	Problems Practice	1
				3.2 Detailed estimate of a flexible pavement in cutting / filling (4P)	
		09.09.2025	Tues	Brief description about fully in cutting, fully in filling and partly in banking and partly in cutting	1
		10.9.2025	Wed	Problems	1
	O c t o b e r	1st	12.09.2025	Fri	Problems
15.09.2025			Mon	Problems	1
				3.2 Detailed estimate of septic tank and soak pit	
16.09.2025		Tues	Introduction to septic tank, soakpit and its Constructional details	1	
2nd		17.09.2025	Wed	Estimate of septic tank and soak pit for 50 users	1
		19.09.2025	Fri	Estimate of septic tank and soak pit for 50 users	1
		22.09.2025	Mon	Estimate of septic tank and soak pit for 50 users	1
				4. Miscellaneous estimates (12P)	
			4.1 Tube well		
23.09.2025	Tues	Introduction to tube well with its constructional details and working procedure	1		

	3rd	24.09.2025	Wed	Estimate of Tube well	1
		26.09.2025	Fri	Estimate of Tube well	1
		06.10.2025	Mon	Estimate of Tube well	1
		08.10.2025	Wed	4.2: Piles and Pile cap	
	5th	10.10.2025	Fri	Piles and Pile cap	1
N o v e m b e r	1st	13.10.2025	Mon	Piles and Pile cap	1
		14.10.2025	Tues	Piles and Pile cap	1
		15.10.2025	Wed	Piles and Pile cap	1
				4.3: Isolated and combined footings.(4p)	
	2nd	17.10.2025	Fri	Isolated and combined footings.	1
		20.10.2025	Mon	Isolated and combined footings.	1
		22.10.2025	Wed	Isolated and combined footings.	1
		24.10.2025	Fri	5. PWD Accounts work (10P)	
				5.1 Works	
		27.10.2025	Mon	repair work, annual repair, special repair, quadrantal repair	1
	28.10.2025	Tues	5.1.2 Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement. & –	1	
	29.10.2025	Wed	5.2 Accounts of works		

3rd	31.10.2025	Fri	5.2.1 Explanation of various terms Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotations, earnest money, E-tendering, security deposit, advance payment, intermediate payment, final payment, running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money),supervision charges, suspense account, debit, credit, book transfer, voucher and related accounts .	1
	03.11.2025	Mon	payment, running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money),supervision charges, suspense account, debit, credit, book transfer, voucher and related accounts .	1
4th	4.11.2025	Tues	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity	1
	07.11.2025	Fri	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages	1
	10.11.2025	Mon	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages	1
	11.11.2025	Tues	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission	1

5th	12.11.2025	Wed	5.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stocks, shortage and excess	1
	14.11.2025	Fri	5.3 Building BYLAWS and REGULATORY Bodies, Devel	1