

### LESSON PLAN 2024(W)

Discipline: Civil Engineering

Name of Faculty- Jyotirmayee Samal

Subject: Est-II( TH5 )

Semester From Date: 1-7-2024 To Date 8 -11-2024

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

MONTH	WEEK	DATE	DAYS/PERIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABLE
J U L Y				1.0 Detailed estimate of culverts and bridges(12P)	
				1.1: Detailed estimate of a simple slab culvert with right angled wing walls	
	1st	01.7.2024	Mon	Introduction to culvert , bridge, their types, wing wall and their types and their related terminology.	1
		03.7.2024	Wed	Study of plan, elevation and section of the culverts	1
		04.7.2024	Thu	I- Class brick work in cement mortar	1
		05.7.2024	Fri	Bar bending schedule RCC work in slab, steel bars including bending in RCC work	1
	2nd	08.7.2024	Mon	Cement pointing	1
		10.7.2024	Wed	Doubt clearing class	1
				1.2 RCC Hume pipe culvert with splayed angled wing wall	
		11.7.2024	Thu	Introduction to hume pipe and study of plan elevation and section of hume pipe from drawing	1
		12.7.2024	Fri	Earthwork Excavation in foundation, cement concrete in foundation	1
	3rd	15.7.2024	Mon	I- Class brick work in cement mortar	1
		18.7.2024	Thurs	I- Class brick work in cement mortar	1

4th	19.7.2024	Fri	cement pointing and hume pipe estimate and doubt clearance	1
	22.7.2024	Mon	cement pointing and hume pipe estimate and doubt clearance	1
			<b>2.0 Estimate of irrigation structures(14P)</b>	
			<b>2.1 Detailed estimate of simple type of vertical fall to given specification</b>	
	24.7.2024	Wed	Introduction to irrigation structures, Cross drainage work and types	1
	25.7.2024	Thurs	Study of plan, elevation and section of the fall	1
	26.7.2024	Fri	2.1 Detailed estimate of simple type of vertical fall to given specification, Earthwork in excavation	1
	29.7.2024	Mon	Cement concrete in foundation and floor	1
5th	31.7.2024	Wed	I-class brickwork in cement mortar, Brick-on-edge floor in cement mortar	1
1st	1.08.2024	Thu	Brick pitching	1
	2.08.2024	Fri	Problem of fall from M. Chakraborty book, Study of plan, elevation and section of the fall	1
2nd	5.08.2024	Mon	Class test 1	
			<b>2.2 Detailed estimate of drainage siphon to given specification.</b>	
	7.08.2024	Wed	Review of cross drainage work and introduction to drainage syphon, Study of plan, elevation and section of the Siphon	1
	8.08.2024	Thu	2.2 Detailed estimate of siphon well drop to given specification, Earthwork in excavation in foundation	1
	9.08.2024	Fri	Cement concrete in foundation	1
	12.08.2024	Mon	I-class brickwork in cement mortar	1

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3rd	14.08.2024	Wed	R.C.C. work in slab,Brick flooring in cement mortar	1
	16.08.2024	Fri	Cement pointing &Brick pitching	1
4th	21.08.2024	Wed	Doubt clearance and Problem of fall from M. Chakraborty book,Study of plan, elevation and section of the Siphon	1
			<b>3.0 Detailed estimate of roads (12P)</b>	
			<b>macadam road(4P)</b>	
	22.08.2024	Thurs	Terminologies related to road,lead,lift and methods of calculation	1
5th	23.08.2024	Fri	Calculation of quantity of earthwork by Mid-Sectional Area method,Mean Sectional Area,Prismoidal Area	1
	28.08.2024	Wed	Problems Practice	1
	29.08.2024	Thurs	Problems Practice	1
	30.08.2024	Fri	<b>3.2Detailed estimate of a flexible pavement in cutting / filling(4P)</b>	
1st	02.9.2024	Mon	Brief description about fully in cutting,fully in filling and partly in banking and partly in cutting	1
	4.9.2024	Wed	Problems	1
	05.9.2024	Thu	Problems	1
	06.9.2024	Fri	Problems	1
			<b>3.2 Detailed estimate of septic tank and soak pit for 50 users</b>	
2nd	09.9.2024	Mon	Introduction to septic tank,soakpit and its Constructional details	1
	11.9.2024	Wed	Estimate of septic tank and soak pit for 50 users	1
	12.9.2024	Thu	Estimate of septic tank and soak pit for 50 users	1
	13.9.2024	Fri	Estimate of septic tank and soak pit for 50 users	1
			<b>4. Miscellaneous estimates(12P)</b>	
			<b>4.1 Tube well</b>	

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3rd	18.9.2024	Wed	Introduction to tube well with its constructional details and working procedure	1
	19.9.2024	Thu	Estimate of Tube well	1
	20.9.2024	Fri	Estimate of Tube well	1
	23.9.2024	Mon	Estimate of Tube well	1
			<b>4.2: Piles and Pile cap</b>	
	25.9.2024	Wed	Piles and Pile cap	1
	26.9.2024	Thu	Piles and Pile cap	1
	27.9.2024	Fri	Piles and Pile cap	1
	30.9.2024	Mon	Piles and Pile cap	1
				<b>4.3: Isolated and combined footings.(4p)</b>
1st	3.10.2024	Thu	Isolated and combined footings.	1
	4.10.2024	Fri	Isolated and combined footings.	1
3rd	17.10.2024	Thu	Isolated and combined footings.	1
	18.10.2024	Fri	Isolated and combined footings.	1
			<b>5. PWD Accounts work (10P)</b>	
			<b>5.1 Works</b>	
	21.10.2024	Mon	5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair	1
	23.10.2024	Wed	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
			<b>5.2 Accounts of works</b>	

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	24.10.2024	Thu	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
	25.10.2024	Fri	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
	28.10.2024	Mon	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
5th	30.10.2024	Wed	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages	1
	1.11.2024	Fri	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages	1
1st	4.11.2024	Mon	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission	1

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v e m b e r	2nd	6.11.2024	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
		7.11.2024	Thu	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.	1
		8.11.2024	Fri	Class test 2	