

### LESSON PLAN 2022-23(W)

<b>Discipline:</b> civil engineering		<b>Name of The Teaching Faculty:</b> C.M.SWARUPA NANDA			
<b>Subject:</b> Est-II TH5 )		<b>Semester From Date:</b> 15-09-2022 <b>To Date</b> 22-12-2022			
<b>SEMESTER-</b> 5th		<b>No. Of Weeks:</b> 14			<b>4P/WEEK</b>
<b>No. of Days/week class allotted:</b> 04 period per week(Mon,Tues,Fri day & Saturday 1 Period each)					<b>TOTAL PERIOD-</b> 60
MON TH	WE EK	DATE	DAYS/PE RIOD	SYLLABUS TO BE COVERED	NOS. OF PERIODS AVAILABL E
S e p t e m b e r				<b>1.0 Detailed estimate of culverts and bridges(12P)</b>	
				<b>1.1:Detailed estimate of a simple slab culvert with right angled wing walls</b>	
	<b>3rd</b>	16.9.2022	Fri	Introduction to culvert , bridge,their types, wing wall and their types and their related terminology.	1
		17.9.2022	Sat	Study of plan, elevation and section of the culverts	1
	<b>4th</b>	19.9.2022	Mon	I- Class brick work in cement mortar	1
		20.9.2022	Tues	Bar bending scheduleRCC work in slab, steel bars including bending in RCC work	1
		23.9.2022	Friday	Cement pointing	1

e r		24.9.2022	Sat	Doubt clearing class	1
				<b>1.2 RCC Hume pipe culvert with splayed angled wing wall</b>	
	5th	26.09.2022	Mon	Introduction to hume pipe and study of plan elevation and section of hume pipe from drawing	1
		27.09.2022	Tues	Earthwork Excavation in foundation, cement concrete in foundation	1
30.9.2022		Fri	I- Class brick work in cement mortar	1	
O c t	1st	1.10.2022	Sat	I- Class brick work in cement mortar	1
	3rd	10.10.2022	Mon	cement pointing and hume pipe estimate and doubt clearance	1
		11.10.2022	Tues	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>		
		14.10.2022	Fri	Introduction to irrigation structures,Cross	1
		15.10.2022	Sat	Study of plan, elevation and section of the fall	1
	4th	17.10.2022	Mon	2.1 Detailed estimate of simple type of vertical fall to given specification,Earthwork in excavation	1
		18.10.2022	Tues	Cement concrete in foundation and floor	1

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	21.10.2022	Fri	I-class brickwork in cement mortar,Brick -on-edge floor in cement mortar	1
	22.10.2022	Sat	Brick pitching	1
<b>5th</b>	25.10.2022	Tues	Problem of fall from M. Chakraborty book,Study of plan, elevation and section of the fall	1
			<b>2.2 Detailed estimate of drainage siphon to given specification.</b>	
	28.10.2022	Fri	Review of cross drainage work and introduction to drainage syphon ,Study of plan, elevation and section of the Siphon	1
	29.10.2022	Sat	2.2 Detailed estimate of siphon well drop to given specification,Earthwork in excavation in foundation	1
<b>Last</b>	31.10.2022	Mon	Cement concrete in foundation	1
<b>1st</b>	1.11.2022	Tues	I-class brickwork in cement mortar	1
	4.11.2022	Fri	R.C.C. work in slab,Brick flooring in cement mortar	1
	5.11.2022	Sat	Cement pointing &Brick pitching	1
<b>2nd</b>	7.11.2022	Mon	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>	

N o v e m b e r			<b>3.1 Detail estimate of a water bound macadam road(4P)</b>		
		11.11.2022	Fri	Terminologies related to road,lead,lift and methods of calculation	1
		12.11.2022	Sat	Calculation of quantity of earthwork by Mid-Sectional Area method,Mean Sectional Area,Prismoidal Area	1
	<b>3rd</b>	14.11.2022	Mon	Problems	1
		15.11.2022	Tues	Problems	1
				<b>3.2Detailed estimate of a flexible pavement in cutting / filling(4P)</b>	
		18.11.2022	Fri	Brief description about fully in cutting,fully in filling and partly in banking and partly in cutting	1
		19.11.2022	Sat	Problems	1
	<b>4th</b>	21.11.2022	Mon	Problems	1
		22.11.2022	Tues	Problems	1
				<b>3.2 Detailed estimate of septic tank and soak pit for 50 users</b>	
		25.11.2022	Fri	Introduction to septic tank,soakpit and its Constructional details	1
		26.11.2022	Sat	Estimate of septic tank and soak pit for 50 users	1
	<b>5th</b>	28.11.2022	Mon	Estimate of septic tank and soak pit for 50 users	1
		29.11.2022	Tues	Estimate of septic tank and soak pit for 50 users	1

				<b>4. Miscellaneous estimates(12P)</b>	
				<b>4.1 Tube well</b>	
<b>D e c e m b e r</b>	<b>1st</b>	2.12.2022	Fri	Introduction to tube well with its constructional details and working procedure	1
		3.12.2022	Sat	Estimate of Tube well	1
	<b>2nd</b>	5.12.2022	Mon	Estimate of Tube well	1
		6.12.2022	Tues	Estimate of Tube well	1
				<b>4.2: Piles and Pile cap</b>	
		9.12.2022	Fri	Piles and Pile cap	1
		10.12.2022	Sat	Piles and Pile cap	1
	<b>3rd</b>	12.12.2022	Mon	Piles and Pile cap	1
		13.12.2022	Tues	Piles and Pile cap	1
				<b>4.3: Isolated and combined footings.(4p)</b>	
		16.12.2022	Fri	Isolated and combined footings.	1
		17.12.2022	Sat	Isolated and combined footings.	1
	<b>4th</b>	19.12.2022	Mon	Isolated and combined footings.	1
		20.12.2022	Tues	Isolated and combined footings.	1
				<b>5. PWD Accounts work (10P)</b>	
				<b>5.1 Works</b>	

			5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair	1
			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>	
			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
			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

			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
			5.2.3 Muster roll : Its preparation & use for making payment of pay & wages	1
			5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages	1
			5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission	1
			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
			5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.	1