

ASIAN SCHOOL OF TECHNOLOGY, BHUBANESWAR

DEPARTMENT OF CIVIL ENGINEERING

LESSON PLAN

Discipline: Civil engineering	Semester : 3 rd	No. of periods available: 51	Name of Teaching Faculty: Swatishree Lenka
Subject: Estimation & Cost Evaluation-II	No. of Days/ per week class allotted : 4 periods per week		No. of weeks : 13
Week	Class Day		Topics to be covered
1 st	1 st	1	Introduction to different types of culverts.
	2 nd	1	Elaboration about slab culvert with right angled type wing wall with the help of model.
	3 rd	1	Detailed estimate of a RCC slab culvert with right angled wing walls
	4 th	1	Discussion about the previous knowledge about different slabs.
2 nd	5 th	1	Explanation by the help of model
	6 th	1	Estimation of bar bending schedule for one way slab
	7 th	1	Introduction of two way slab with the help of detail drawing.
	8 th	1	Estimation of bar bending schedule for two way slab
3 rd	9 th	1	Detail explanation and calculation for slab
	10 th	1	Construction site visit for practical knowledge
	11 th	1	RCC Hume pipe culvert with splayed angled

			wing wall detail
			drawing discussion.
-	12 th	1	<u> </u>
	12	1	Estimation of Hume
			pipe culvert with
41.	41.		splayed wing wall.
4 th	13 th	1	Estimate of
			irrigation structures
			Detailed drawing
			elaboration of
	a.		simple type of
	14 th	1	Detail estimation of
			vertical fall(only
	th		Earth work)
	15 th	1	Estimation of
			vertical fall(concrete
			in foundation/W)
	16 th	1	1 st class brick work in
			cement mortar
5 th	17 th	1	Pointing work
	18 th	1	Detailed drawing
			elaboration of
			drainage siphon
			from B.N dutta.
	19 th	1	Estimation of
	17	1	drainage syphon
	20^{th}	1	QUIZ TEST
6 th	21 st	1	Detailed drawing
O .	21	1	elaboration of
			drainage siphon from
			M.chakraborty.
	22 nd	1	Estimation of
			drainage
			syphonE/W,cement
			concrete
	23 rd	1	
-	24 th	1 1	B/W,pointing Detailed estimate of
	24	1	roads
			Detail drawing
			discussion of road
7 th	25 th	1	cutting. Detailed estimate of
/	23	1	
			a flexible pavement
	26 th	1	in cutting
	26	1	Detail drawing
			discussion of road in
	ozth .	1	banking.
	27 th	1	Detailed estimate of
			a flexible pavement
	• oth		in banking.
	28 th	1	Introduction to water
			bound macadam road
			detail drawing
			discussion

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8 th	29 th	1	Detail estimation of
			water bound
			macadam road.
	30 th	1	Introduction to
			septic tank with the
			help of drawing.
	31 st	1	Detailed estimate
	31	1	of septic tank and
			soak pit for 50
	nd		users
	32 nd	1	Quiz
9 th	33 rd	1	Miscellaneous
			estimates
			Introduction of tube
			well
	34 th	1	Estimation of tube
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	35 th	1	well various parts.
	35	1	pile and pile
			cap.detail drawing
	,		elaboration.
	36 th	1	Tube well, Piles and
			Pile cap
10 th	37 th	1	Detail drawing
			elaboration of
			footings
	38 th	1	Isolated and
	38	1	
	20th		combined footings
	39 th	1	PWD account
			works
			Classification of
			work-original,
			major, petty, repair
	40	1	Concept of Method
			of execution of
			works through the
			contractors and
			department, contract
			and agreement,
			work order
11 th	41 st	1	
11	41	1	Types of contract,
			piece work
	- nd		agreement
	42 nd	1	CLASS TEST
	43 rd	1	Administrative
			approval, technical
			sanction, tender,
			preparation of
			notice inviting
			tender, quotations,
			earnest money
	44 th	1	
	44	1	E-tendering, security
			deposit, advance

	1	<u> </u>	
			payment,
			intermediate
, ath	, _th		payment
12 th	45 th	1	Final payment,
			running bill, final
			bill, regular and
			temporary
			establishment, cash
	46 th	1	Major & subhead of
			account, temporary
			advance
			(imprest
			money),supervision
			charges, suspense
			account,
	47 th	1	Debit, credit, book
	1,	1	transfer, voucher
			and related
			accounts
	48 th	1	Measurement book
	40	1	use & maintenance,
			procedure of
			marking entries of
			measurement of
			work and supply of
13 th	49 th	1	materials
13	49	1	Muster roll: Its
			preparation & use for
			making payment
			of pay & wages,
			Acquittance Roll:
			Its preparation &
			use for making
			payment of pay &
			wages
	50 th	1	Labour & labour
			report, method of
			labour payment
			use of forms and
			necessity of
			Submission,
			Classification of
			stores, receipt /
			issue statement on
			standard form
	51 st	1	method of
			preparation of
			stock account,
			preparation and
			submission of
			returns
			verification of
	İ	İ	vermeation of
			stocks, shortage

		and excess
52 nd	1	Building BYLAWS
		and REGULATORY
		Bodies
		Development
		authorities, types and
		their levels, RERA
		etc.