

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: Th-5 (ESTIMATION & COSTEVALUATION-II)

CHAPTER WISE DISTRIBUTION OF PERIODS

SI.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	Detailed estimate of culverts and bridges	12	12
2	Estimate of irrigation structures	14	14
3	Detailed estimate of roads	12	12
4	Detailed estimates of miscellaneous works	12	12
5	PWD accounts works	10	10
	Total Period:	60	60

Discipline: CIVIL ENGINEERING	Semester: 5th	Name of the Teaching Faculty:	Er. Kumar Swatiranjan
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Week	Class Day	Theory / Practical Topics
	1 st	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
1 st	2 nd	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	3 rd	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	4 th	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	1 st	1.Detailed estimate of culverts and bridges1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
2 nd	2 nd	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
2	3 rd	1.2 RCC Hume pipe culvert with splayed angled wing wall
	4 th	1.2 RCC Hume pipe culvert with splayed angled wing wall
	1 st	1.2 RCC Hume pipe culvert with splayed angled wing wall
3 rd	2 nd	1.2 RCC Hume pipe culvert with splayed angled wing wall
3	3 rd	1.2 RCC Hume pipe culvert with splayed angled wing wall
	4 th	1.2 RCC Hume pipe culvert with splayed angled wing wall
	1 st	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
4 th	2 nd	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification

4	3 rd	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
	4 th	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
	1 st	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
5 th	2 nd	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
5	3 rd	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
	4 th	2.2 Detailed estimate of drainage siphon to given specification.
	1 st	2.2 Detailed estimate of drainage siphon to given specification.
6 th	2 nd	2.2 Detailed estimate of drainage siphon to given specification.
8	3 rd	2.2 Detailed estimate of drainage siphon to given specification.
	4 th	2.2 Detailed estimate of drainage siphon to given specification.
	1 st	2.2 Detailed estimate of drainage siphon to given specification.
7 th	2 nd	2.2 Detailed estimate of drainage siphon to given specification.
,	3 rd	3.Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road
	4 th	3.Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road
	1 st	3.Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road

8 th	2 nd	3.Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road	
8	3 rd	3.2 Detailed estimate of a flexible pavement in cutting / filling	
	4 th	3.2 Detailed estimate of a flexible pavement in cutting / filling	
	1 st	3.2 Detailed estimate of a flexible pavement in cutting / filling	
9 th	2 nd	3.2 Detailed estimate of a flexible pavement in cutting / filling	
9	3 rd	3.2 Detailed estimate of septic tank and soak pit for 50 users	
	4 th	3.2 Detailed estimate of septic tank and soak pit for 50 users	
	1 st	3.2 Detailed estimate of septic tank and soak pit for 50 users	
10 th	2 nd	3.2 Detailed estimate of septic tank and soak pit for 50 users	
10	3 rd	4.Miscellaneous estimates 4.1 Tu well	ıbe
	4 th	4.1 Tube well	
	1 st	4.1 Tube well	
11 th	2 nd	4.1 Tube well	
11	3 rd	4.1 Piles and Pile cap	
	4 th	4.1 Piles and Pile cap	

	1 st	4.1 Piles and Pile cap
12 th	2 nd	4.1 Piles and Pile cap
12	3 rd	4.1 Isolated and combined footings
	4 th	4.1 Isolated and combined footings
	1 st	4.1 Isolated and combined footings
	2 nd	4.1 Isolated and combined footings
13 th	3 rd	5.PWD Accounts works5.1 Works5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair
	4 th	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 st	5.2 Accounts of works — 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,
14 th	2 nd	5.2.1 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.
	3 rd	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
	4 th	5.2.3 Muster roll: Its preparation & use for making payment of pay & wages
	1 st	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages

	2 nd	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission
15 th	3 rd	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
	4 th	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.