



LESSON PLAN OF ESTIMATING & COST EVALUTION 2 FOR THE SESSION 2022-23(WINTER-2022) GOVT. POLYTECHNIC, KANDHAMAL, BATCH - 2020-2023

Discipline: Civil Engineering	Semester: 5th	Name of the Teaching Faculty: BACHHA SIBA KUMAR DORA
Subject:ESTIMATING & COST EVALUTION 2	No. of days/per week class allotted: 4	Semester From Date : 15/09/2022 to Date: 22/12/2022 / 21/01/2023
		No. of Weeks: 15
Week	Class Day	Theory/ Practical Topics
1ST		<b>CHAPTER-1 Detailed estimate of culverts and bridges</b>
	1	Detailed estimate of a simple Hume pipe culvert with right angled wing walls
	2	Detailed estimate of a simple Hume pipe culvert with right angled wing walls
	3	Detailed estimate of a simple Hume pipe culvert with right angled wing walls
	4	Detailed estimate of a simple Hume pipe culvert with right angled wing walls
2ND	1	Detailed estimate of a simple Hume pipe culvert with right angled wing walls
	2	RCC deck slab culvert with right angled wing wall
	3	RCC deck slab culvert with right angled wing wall
	4	RCC deck slab culvert with right angled wing wall
3RD	1	RCC deck slab culvert with right angled wing wall
	2	RCC deck slab culvert with right angled wing wall
	3	RCC deck slab culvert with right angled wing wall
	4	RCC deck slab culvert with splayed wing wall
4TH	1	RCC deck slab culvert with splayed wing wall
	2	RCC deck slab culvert with splayed wing wall
	3	RCC deck slab culvert with splayed wing wall
	4	RCC deck slab culvert with splayed wing wall
5TH	1	Quantity of steel for deck slab with bar bending schedule of the above jobs
	2	Quantity of steel for deck slab with bar bending schedule of the above jobs
	3	Quantity of steel for deck slab with bar bending schedule of the above jobs
	4	Quantity of steel for deck slab with bar bending schedule of the above jobs
6TH		<b>CHAPTER-2 Estimate of irrigation structures</b>
	1	Detailed estimate of simple type of vertical fall to given specification
	2	Detailed estimate of simple type of vertical fall to given specification
	3	Detailed estimate of simple type of vertical fall to given specification
	4	Detailed estimate of simple type of vertical fall to given specification
7TH	1	Detailed estimate of simple type of vertical fall to given specification
	2	Detailed estimate of simple type of vertical fall to given specification
	3	Detailed estimate of simple type of vertical fall to given specification
	4	Detailed estimate of simple type of vertical fall to given specification
8TH	1	Detailed estimate of simple type of vertical fall to given specification
	2	Detailed estimate of simple type of vertical fall to given specification
	3	Detailed estimate of simple type of vertical fall to given specification
	4	Detailed estimate of simple type of vertical fall to given specification
9TH	1	Detailed estimate of siphon well drop to given specification.
	2	Detailed estimate of siphon well drop to given specification.
	3	Detailed estimate of siphon well drop to given specification.
	4	Detailed estimate of siphon well drop to given specification.
10TH	1	Detailed estimate of siphon well drop to given specification.
	2	Detailed estimate of siphon well drop to given specification.
	3	Detailed estimate of siphon well drop to given specification.
	4	Detailed estimate of siphon well drop to given specification.
11TH	1	Detailed estimate of siphon well drop to given specification.
	2	Detailed estimate of siphon well drop to given specification.
	3	Detailed estimate of siphon well drop to given specification.
	4	Detailed estimate of siphon well drop to given specification.
12TH		<b>CHAPTER-3 Detailed estimate of roads</b>
	1	Detail estimate of a water bound macadam road
	2	Detail estimate of a water bound macadam road
	3	Detail estimate of a water bound macadam road
	4	Detail estimate of a water bound macadam road

13TH	1	Detail estimate of a water bound macadam road
	2	Detailed estimate of a National Highway in cutting / filling
	3	Detailed estimate of a National Highway in cutting / filling
	4	Detailed estimate of a National Highway in cutting / filling
14TH	1	Detailed estimate of a National Highway in cutting / filling
	2	Detailed estimate of a National Highway in cutting / filling
	3	<b>CHAPTER-4 PWD accounts works</b> <b>(Works)</b> Classification of work-original, major, petty, repair work, annual repair, special repair, quadrant repair
	4	Method of execution of works through the contractors, departmentally, contract and agreement, work order, item rate contract, lump sum contract, labour contract and daily labour, piece work agreement, scheduled contract, cost plus percentage contract
15TH	1	<b>(Accounts of works)</b> Explanation of various terms Administrative approval, technical sanction, contingency budget, tender, preparation of notice inviting tender, receiving of quotations, earnest money, security deposit, advance payment, on account payment, intermediate payment, final payment, running bill, final, regular and temporary establishment, cash, major & subhead of account, temporary advance, issue rate, storage, supervision charges, suspense account, debit, credit, book transfer, voucher and related accounts .
	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 Master roll : Its preparation & use for making payment of pay & wages
	3	Acquittance Roll : Its preparation & use for making payment of pay & wages Labour & labour report, method of labour payment, use of forms and necessity of submission
	4	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

Signature of Lecturer

B. Saha Kumar

Signature of HOD

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