

ACADEMIC LESSON PLAN FOR WINTER 2022
DEPT. OF CIVIL ENGG. GOVT.POLYTECHNIC BALASORE
NAME OF THE FACULTY – BIKASH KUMAR PATRA
ESTIMATION & COST EVALUATION-II

Course code- Th-5
 Theory – 4 P/W
 Total period – 60 P/Sem
 Examination – 3hrs
 Semester - 5th Civil

Class test- 20
 End semester exam-80
 Total mark- 100
 Start From- 15th Sept.

WEEK	CLASS	TOPIC
1 st	1 st	Detailed estimate of culverts and bridges Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule
	2 nd	Problem
	3 rd	Problem
	4 th	Problem
2 nd	1 st	Problem
	2 nd	Problem
	3 rd	RCC Hume pipe culvert with splayed angled wing wall
	4 th	Problem
3 rd	1 st	Problem
	2 nd	Problem
	3 rd	Problem
	4 th	Problem
4 th	1 st	Estimate of irrigation structures Detailed estimate of simple type of vertical fall to given specification

	2 nd	Problem
	3 rd	Problem
	4 th	Problem
5 th	1 st	Problem
	2 nd	Problem
	3 rd	Problem
	4 th	Detailed estimate of drainage siphon to given specification.
6 th	1 st	Problem
	2 nd	Problem
	3 rd	Problem
	4 th	Problem
7 th	1 st	Problem
	2 nd	Problem
	3 rd	Detailed estimate of roads Detail estimate of a water bound macadam road
	4 th	Problem
8 th	1 st	Problem
	2 nd	Problem
	3 rd	Detailed estimate of a flexible pavement in cutting / filling
	4 th	Problem
9 th	1 st	Problem
	2 nd	Problem
	3 rd	Detailed estimate of septic tank and soak pit for 50 users
	4 th	Problem
10 th	1 st	Problem
	2 nd	Problem

	3 rd	Miscellaneous estimates Tube well
	4 th	Problem
11 th	1 st	Problem
	2 nd	Problem
	3 rd	Piles and Pile cap
	4 th	Problem
12 th	1 st	Problem
	2 nd	Problem
	3 rd	Isolated and combined footings.
	4 th	Problem
13 th	1 st	Problem
	2 nd	Problem
	3 rd	PWD Accounts works Works ,Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair
	4 th	Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement
14 th	1 st	Accounts of works – 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
	2 nd	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	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	Muster roll : Its preparation & use for making payment of pay & wages Acquittance Roll : Its preparation & use for making payment of pay & wages
15 th	1 st	Labour & labour report, method of labour payment, use of forms and necessity of Submission 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
	2 nd	Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc
	3 rd	Revision and previous year question discussion

	4 th	Revision and previous year question discussion
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