

**GOVERNMENT POLYTECHNIC JAIPUR**

**A/ P: Ragadi, Block: Korei, Dist.: Jajpur, Odisha- 755019**

**Website: <https://www.gpjajpur.org> E-mail: [principalgpjajpur@yahoo.co.in](mailto:principalgpjajpur@yahoo.co.in) Contact: 9437155107**

**DEPARTMENT OF CIVIL ENGINEERING**

**LESSON PLAN**

<b>Discipline:</b> Civil Engg.	<b>Semester:</b> 5th	<b>Name of the Teaching faculty:</b> Shibasis panda
<b>Subject:</b> Estimating & Cost Evaluation-II Th-5	<b>No of Days/Week class allotted:</b> 4	<b>Semester from Date:</b> 14.07.2025 <b>To Date:</b> 11.07.2025 <b>No of weeks:</b> 15
<b>Week</b>	<b>Class Day</b>	<b>Topics</b>
1st	1st	Detailed estimate of culverts and bridges 1.1 Detailed estimate of a simple Hume pipe culvert with right angled wing walls
	2nd	problem
	3rd	problem
	4th	problem
2nd	1st	problem
	2nd	1.2 RCC deck slab culvert with right angled wing wall
	3rd	problem
	4th	problem
3rd	1st	problem
	2nd	problem
	3rd	1.3RCC deck slab culvert with splayed wing wall
	4th	problem
4th	1st	problem
	2nd	problem
	3rd	problem
	4th	1.4Quantity of steel for deck slab with bar bending schedule of the above jobs
5th	1st	problem
	2nd	problem
	3rd	problem
	4th	problem
6th	1st	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification
	2nd	problem
	3rd	problem
	4th	problem
7th	1st	problem
	2nd	problem
	3rd	2.3Detailed estimate of siphon well drop to given specification.

	4th	problem
8th	1st	problem
	2nd	problem
	3rd	problem
	4th	problem
9th	1st	3. Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road
	2nd	problem
	3rd	problem
	4th	problem
10th	1st	problem
	2nd	problem
	3rd	3.2 Detailed estimate of a National Highway in cutting / filling
	4th	problem
11th	1st	problem
	2nd	problem
	3rd	problem
	4th	problem
12th	1st	PWD accounts works 4.1 Works 1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair
	2nd	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
	3rd	Accounts of works 4.2.1 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
	4th	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
13th	1st	4.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity
	2nd	<b>4.2.3 Master roll : Its preparation &amp; use for making payment of pay &amp; wages</b>
	3rd	4.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages
	4th	<b>4.2.5 Labour &amp; labour report, method of labour payment, use of forms and necessity of submission</b>
14th	1st	4.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account
	2nd	preparation and submission of returns, verification of stocks, shortage and excess
	3rd	Doubt clearing classes

	4th	Previous year question answer discussion
15th	1st	REVISION
	2nd	REVISION
	3rd	REVISION
	4th	REVISION
16th	1st	REVISION

**LearningResources:**

Sl No.	Author Name	Name of the Book
1	M.Chakraborty.	Estimating, Costing, specification & Valuation in Civil Engineering
2	B.N.Dutta.	Estimating & Costing
3	Latest Orissa PWD Schedule of Rates & Analysis of rates	Latest Orissa PWD Schedule of Rates & Analysis of rates

Shibasis panda  
FACULTY SIGNATURE