



GOVT. POLYTECHNIC KORAPUT

ACADEMIC SESSION 2020-2021

SEMESTER- 5<sup>th</sup>

BRANCH - CIVIL ENGINEERING

SUBJECT – ESTIMATION AND COST EVALUTION II

FACULTY NAME – SUCHITRA LENKA

Week No	Topic to be covered
1	<b>1. Detailed estimate of culverts and bridges</b> 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.
2	1.2 RCC Hume pipe culvert with splayed angled wing wall
3	<b>Estimate of irrigation structures</b> 2.1 Detailed estimate of simple type of vertical fall to given specification 2.2 Detailed estimate of drainage siphon to given specification
4	<b>Detailed estimate of roads</b> 3.1 Detail estimate of a water bound macadam road
5	3.2 Detailed estimate of a flexible pavement in cutting / filling 3.2 Detailed estimate of septic tank and soak pit for 50 users
6	<b>Miscellaneous estimates</b> 4.1 Tube well, Piles and Pile cap, Isolated and combined footings.
7	<b>PWD Accounts works</b> 5.1 Works 5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair
8	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.
9	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, running bill
10	final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money),supervision charges, suspense account,
11	debit, credit, book transfer, voucher and related accounts .
12	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
13	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages 5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages

14	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission 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
15	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.