



UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE: Civil Engineering	SEMESTER: 5 TH Sem	NAME OF THE TEACHING FACULTY: ER. TEJASWINI DAS		
SUBJECT: ESTIMATING AND COST EVALUATION- II	No of Days/Per week class allotted: 4 Class P/W(60)	Semester From Date:15/09/2022 To Date:22/12/2022 No. Of Weeks: 15		
WEEK	CLASS DAY	THEORY	REMARKS	
1 st	1 st	Detailed estimate of culverts and bridges 1.Detailed estimate of a RCC slab culvert	Date	Dean/Principal
	2 nd			
	3 rd	Details quantities calculation cement concrete in foundation		
	4 th	Details quantities calculation of first-class brickwork in culvert.		
2 nd	1 st	Details quantities calculation of R.C.Cwork		
	2 nd	Details quantities calculation of steel bars including bending in R.C.C		
	3 rd	Numeric problem solve		
	4 th	Numeric problem solve		
3 rd	1 st	Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule.		
	2 nd	Numeric problem solve		
	3 rd	Numeric problem solve		
	4 th	RCC Hume pipe culvert with splayed angled wing wall		

4 th	1 st	Estimate of irrigation structures Detailed estimate of drainage siphon to given specification		
	2 nd	Details quantities calculation of earth work excavation		
	3 rd	Details quantities calculation cement concrete in foundation		
	4 th	Details quantities calculation of first-class brickwork in siphon		
5 th	1 st	Numeric problem solve doubt clear class		
	2 nd	Details quantities calculation of R.C.Cwork		
	3 rd	Details quantities calculation of 10cm thick brick floor		
	4 th	Numeric problem solve doubt clear class		
6 th	1 st	Numeric problem solve doubt clear class		
	2 nd	Detailed estimate of simple type of vertical fall to given specification		
	3 rd	Numeric problem solve(earthwork excavation)		
	4 th	Numeric problem solve(cement concrete in foundation)		

7 th	1 st	Numeric problem solve(R.C.C work)		
	2 nd	Numeric problem solve(brick work in foundation)		
	3 rd	Detail estimate of a water bound macadam road		
	4 th	Problems of earthwork fully in banking and cutting		
8 th	1 st	Problems of earthwork partly in banking and cutting		
	2 nd	Numeric problem solve based upon estimate the cost of earthwork from data.		
	3 rd	Numeric problem solve		
	4 th	Numeric problem solve		
9 th	1 st	Detailed estimate of a flexible pavement in cutting / filling		
	2 nd	Numeric problem solve based upon cutting and filling		
	3 rd	Numeric problem solve based upon cutting and filling		
	4 th	Detailed estimate of septic tank and soak pit for 50 users		
10 th	1 st	Numeric problem solve		
	2 nd	Numeric problem solve		
	3 rd	Miscellaneous estimates Tube well estimate		
	4 th	Numeric problem solve based upon tube well		
11 th	1 st	Numeric problem solve based upon tube well		
	2 nd	Piles and Pile cap estimate		
	3 rd	Numeric problem solve based upon piles		
	4 th	Numeric problem solve based upon piles		
12 th	1 st	Estimate of isolated footing		
	2 nd	Numeric problem solve of isolated footing		
	3 rd	Numeric problem solve of isolated footing		

13 th	4 th	combined footings		
	1 st	Numeric problem solve combined footings		
	2 nd	Numeric problem solve combined footings		
	3 rd	PWD Accounts works Classification of work- original, major, petty, repair work, annual 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		
14 th	1 st	Accounts of works		
	2 nd	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, final bill,		
	3 rd	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		
	4 th	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		
	1 st	Muster roll : Its preparation & use for making payment of pay & wages Acquaintance Roll : Its preparation & use for making payment of pay & wages		

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

Tejaswini Das
HOD

Chittaranjan Prasad
DEAN

Das
PRINCIPAL