

Discipline: <u>civil</u>	Semester: <u>5th</u>	Name of the Teaching Faculty <u>Geetanjali Behera</u>	
Subject: <u>Estimate & Cost Evaluation II</u>	No of Days/Week Class Allotted: <u>04</u>	Semester From date: _____ To _____ date _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	Introduction
	2nd	What is Culvert? Difference between Culvert & Bridge.
	3rd	
	4th	Detailed estimate of a RCC slab culvert with right angle wing walls with bar bending schedule → find out part of culvert
	5th	Prepare a detailed estimate for right angle wing walls → Earthwork excavation
	1st	Prepare a detailed estimate for right angle wing wall - cement concrete
	2nd	Prepare a detailed estimate for right angle wing wall - 1st class brick work structure 1:4 cement mortar
	3rd	
	4th	Prepare a detailed estimate for right angle wing wall - 1st class brick work structure 1:4 cement mortar
	5th	Prepare a detailed estimate for right angle wing wall - RCC work
	1st	Prepare a detailed estimate for right angle wing wall - cement pointing work
	2nd	Detailed estimate of a RCC flume pipe culvert with splayed angle wing wall → find out 1st part of wall
	3rd	
	4th	Prepare a detailed estimate for splayed angle wing wall - Earthwork excavation
	5th	Prepare a detailed estimate for splayed angle wing wall - Cement concrete 1:6 work

WEEK	Class Day	Theory Topics
	1st	Prepare a detailed estimate for splined angle wing wall → 1st class brickwork structure 1:4 mortar.
	2nd	Prepare a detailed estimate for splined angle wing wall → 1st class brickwork structure 1:4 mortar.
	3rd	
	4th	Prepare a detailed estimate for splined angle wing wall → RCC work
	5th	Prepare a detailed estimate for splined angle wing wall → cement pointing work.
	1st	Prepare a detailed estimate for splined angle wing wall → cement pointing work
	2nd	Estimate of culvert → Revision class, earthwork excavation, C-C work
	3rd	
	4th	Estimate of irrigation structures :- Fall → Definitions of ball, part of ball.
	5th	Prepare a detailed estimate for ball earthwork excavation in crest wall, floor wall, wing wall, counter wall.
	1st	Prepare a detailed estimate for ball earthwork in excavation.
	2nd	Prepare a detailed estimate for ball earthwork in excavation.
	3rd	Prepare a detailed estimate for ball cement concrete work.
	4th	Prepare a detailed estimate for ball cement concrete work.
	5th	

Discipline: CIVIL	Semester: 5th	Name of the Teaching Faculty Swarnpa Mohanta	
Subject: Estimates Cost Evaluation II	No of Days/Week Class Allotted: 04	Semester From date: _____ To date _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	Prepare a detailed estimate for wall - 1st class brickwork structure 1:4 cement mortar
	2nd	Prepare a detailed estimate for wall - 1st class brickwork structure 1:4 cement mortar
	3rd	Prepare a detailed estimate for wall - 1st class brickwork structure 1:4 cement mortar
	4th	Prepare a detailed estimate for wall - RCC work
	5th	
	1st	Prepare a detailed estimate for wall - RCC work
	2nd	Prepare a detailed estimate for wall - RCC work
	3rd	Prepare a detailed estimate for wall - cement pointing work
	4th	Prepare a detailed estimate for wall - cement pointing work
	5th	
	1st	Detailed estimate of drainage siphon to given specification → Debitita siphon
	2nd	Prepare a detailed estimate for siphon earthwork excavation
	3rd	Prepare a detailed estimate for siphon cement concrete 1:2:4
	4th	Prepare a detailed estimate for siphon - 1st class Brickwork structure 1:4 cement mortar
	5th	



WEEK	Class Day	Theory Topics
	1st	prepare a detailed estimate for 1st class Brick work structure 1:4 cement mortar
	2nd	prepare a detailed estimate for siphon - RCC work structure
	3rd	
	4th	prepare a detailed estimate for siphon - cement pointing
	5th	Detail estimate of a water bound Macadam road - Introduction
	1st	Numerical Problem - 1 - WBM road (water bound Macadam)
	2nd	Problem - 2 - WBM road.
	3rd	
	4th	Problem - 3 WBM road
	5th	Detailed estimate of a flexible pavement in cutting/filling - trapezoidal formula
	1st	Derivation for Banking earth excavation & filling earth excavation
	2nd	Types of Method for road estimating - Mid sectional Method
	3rd	
	4th	Mean sectional Method,
	5th	Prismoidal Method.

Discipline: civil	Semester: 5th	Name of the Teaching Faculty Swarupa Mohanty	
Subject: Estimate & Cost & valuation II	No of Days/Week Class Allotted: 04	Semester From date: _____ To date: _____	No. of Weeks: _____

WEEK	Class Day	Theory Topics
	1st	Problem-1 → Method - 1, 2, 3 (Mid, Mean & Trapezoidal Method)
	2nd	Problem-2 → Method 1, 2, 3
	3rd	
	4th	Problem-4 ^{prepare} Detailed estimate of road in cutting/billing (upward & down ^{ward} gradient)
	5th	Problem-5 prepare a detailed estimate of road in cutting/billing (upward gradient)
	1st	Problem-6 prepare a detailed estimate of road in cutting/billing (downward gradient)
	2nd	Detailed estimate of septic tank and soak pit for 50 users
	3rd	
	4th	Detailed estimate of septic tank and soak pit for 50 users
	5th	Detailed estimate of septic tank and soak pit for 50 users
	1st	Works - original work, repair work, major work, petty work, annual repair, ^{special} repair
	2nd	Accounts of works
	3rd	
	4th	Administrative approval, technical sanction, tender, inviting tender, ^{preparation} notice
	5th	quotations, earnest money, E-tendering, security deposit, advance payment

WEEK	Class Day	Theory Topics
	1st	Final payment, running bill, final bill
	2nd	regular + temporary establishments, cash account, temporary advance, supervision charges, credit, debit / book to credit, voucher
	3rd	
	4th	Measurement Book use & Maintenance
	5th	Master roll - Its preparation & use for making payment of pay & wages
	1st	Aquitance Roll → Its preparation & uses, necessity
	2nd	Labour & Labour report, method of Labour payment, necessity.
	3rd	
	4th	Classification stores, receipt, method of preparation of stock account
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	