

LESSON PLAN: (ESTIMATION & COST EVALUATION-II) (TH-5)		
Discipline :	CIVIL ENGINEERING	
Faculty :	SUBHENDU NAIK	
Semester :	5TH	
Duration :	14 WEEKS (1ST AUGUST 2023 to 30TH NOVEMBER 2023)	
Work Load :	Lecture :	4 Lectures per week (50 minutes per Class)
Week	Week Day	Theory
1 st	1 st	Fundamentals of estimate
	2 nd	Detailed estimate of a RCC slab culvert
	3 rd	Earthwork in excavation, Lime concrete in foundations
	4 th	1 st class B.W. in foundations and plinth, RCC work
2 nd	5 th	Cement Plastering
	6 th	RCC slab culvert with right angled wing walls with bar bending schedule
	7 th	BBS calculations
	8 th	Abstract
3 rd	9 th	RCC Hume pipe culvert with splayed angled wing wall
	10 th	Earthwork in excavation, Lime concrete in foundations
	11 th	1 st class B.W. in foundations and plinth, RCC work
	12 th	Cement Plastering
4 th	13 th	RCC slab culvert with right angled wing walls with bar bending schedule
	14 th	BBS calculations
	15 th	Abstract
	16 th	Detailed estimate of simple type of vertical fall
5 th	17 th	Earthwork in excavation, Lime concrete in foundations
	18 th	1 st class B.W. in foundations and plinth, RCC work
	19 th	Cement Plastering
	20 th	RCC slab culvert with right angled wing walls with bar bending schedule
6 th	21 st	BBS calculations
	22 nd	Abstract
	23 rd	Detailed estimate of drainage siphon
	24 th	Earthwork in excavation, Lime concrete in foundations
7 th	25 th	1 st class B.W. in foundations and plinth, RCC work
	26 th	Cement Plastering
	27 th	RCC slab culvert with right angled wing walls with bar bending schedule
	28 th	BBS calculations
8 th	29 th	Abstract
	30 th	Detail estimate of a water bound macadam road
	31 st	Problem solving
	32 nd	Problem solving
9 th	33 rd	Detailed estimate of a flexible pavement in cutting / filling
	34 th	Method of road estimate
	35 th	Method of road estimate problem solving

	36 th	Mean sectional area method
10th	37 th	Mean sectional area method problem solving
	38 th	Mid sectional area method
	39 th	Mid sectional area method problems
	40 th	Turfing area calculations
11th	41 st	Detailed estimate of septic tank and soak pit for 50 users
	42 nd	Detailed estimate of septic tank and soak pit for 50 users problem solving
	43 rd	Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair.
	44 th	Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement.
12th	45 th	Accounts of works
	46 th	Explanation of various terms Administrative approval, technical sanction, tender
	47 th	preparation of notice inviting tender, quotations, earnest money, E-tendering,
	48 th	security deposit, advance payment, intermediate payment, final payment, running bill
13th	49 th	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 .
	50 th	Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity
	51 st	Muster roll : Its preparation & use for making payment of pay & wages
	52 nd	Acquittance Roll : Its preparation & use for making payment of pay & wages
14th	53 rd	Labour & labour report, method of labour payment, use of forms and necessity of Submission
	54 th	Classification of stores, receipt / issue statement on standard form, method of preparation of stock account,
	55 th	preparation and submission of returns, verification of stocks, shortage and excess
	56 th	Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.