



NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY
SERGARH-756060, BALASORE (ODISHA)
(Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: Th-5 (ESTIMATION & COST EVALUATION-II)

Name Of The Faculty :- Er. Kumar Swatiranjan

Branch :- Civil Engineering

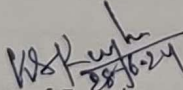
Session :- 2024-25

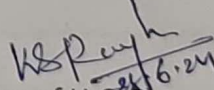
Semester :- 5th

Examination :- 2024 (w)

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	Detailed estimate of culverts and bridges	12	15
2	Estimate of irrigation structures	14	16
3	Detailed estimate of roads	12	15
4	Detailed estimates of miscellaneous works	12	15
5	PWD accounts works	10	14
	Total Period:	60	75


Sign of Faculty


Sign of H.O.D.

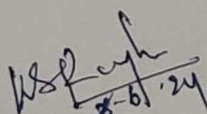
Discipline: CIVIL ENGINEERING	Semester: 5th	Name of the Teaching Faculty: Er. Kumar Swatiranjan	
		SESSION : 2024-25	EXAMINATION : 2024 (W)
Week	Class Day	Topics to be Covered	
1 st	1 st	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	2 nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	3 rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	4 th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	5 th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
2 nd	1 st	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	2 nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	3 rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	4 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	5 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
3 rd	1 st	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	2 nd	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	3 rd	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	4 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	5 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
4 th	1 st	Revision of 1.1 clause	
	2 nd	Revision of 1.2 clause	
	3 rd	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification	
	4 th	2.1 Detailed estimate of simple type of vertical fall to given specification	
	5 th	2.1 Detailed estimate of simple type of vertical fall to given specification	
5 th	1 st	2.1 Detailed estimate of simple type of vertical fall to given specification	

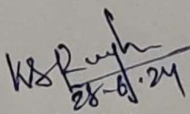
Discipline: CIVIL ENGINEERING	Semester: 5th	Name of the Teaching Faculty: Er. Kumar Swatiranjan	
		SESSION : 2024-25	EXAMINATION : 2024 (W)
Week	Class Day	Topics to be Covered	
1 st	1 st	1.Detailed estimate of culverts and bridges 1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	2 nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	3 rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	4 th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	5 th	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
2 nd	1 st	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	2 nd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	3 rd	1.1 Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule	
	4 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	5 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
3 rd	1 st	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	2 nd	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	3 rd	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	4 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
	5 th	1.2 RCC Hume pipe culvert with splayed angled wing wall	
4 th	1 st	Revision of 1.1 clause	
	2 nd	Revision of 1.2 clause	
	3 rd	2.Estimate of irrigation structures 2.1 Detailed estimate of simple type of vertical fall to given specification	
	4 th	2.1 Detailed estimate of simple type of vertical fall to given specification	
	5 th	2.1 Detailed estimate of simple type of vertical fall to given specification	
5 th	1 st	2.1 Detailed estimate of simple type of vertical fall to given specification	

5 th	2 nd	2.1 Detailed estimate of simple type of vertical fall to given specification
	3 rd	2.1 Detailed estimate of simple type of vertical fall to given specification
	4 th	2.1 Detailed estimate of simple type of vertical fall to given specification
	5 th	2.1 Detailed estimate of simple type of vertical fall to given specification
6 th	1 st	2.2 Detailed estimate of drainage siphon to given specification.
	2 nd	2.2 Detailed estimate of drainage siphon to given specification.
	3 rd	2.2 Detailed estimate of drainage siphon to given specification.
	4 th	2.2 Detailed estimate of drainage siphon to given specification.
	5 th	2.2 Detailed estimate of drainage siphon to given specification.
7 th	1 st	2.2 Detailed estimate of drainage siphon to given specification.
	2 nd	2.2 Detailed estimate of drainage siphon to given specification.
	3 rd	2.2 Detailed estimate of drainage siphon to given specification.
	4 th	Revision of 2.1 clause
	5 th	Revision of 2.2 clause
8 th	1 st	3. Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road
	2 nd	3.1 Detail estimate of a water bound macadam road
	3 rd	3.1 Detail estimate of a water bound macadam road
	4 th	3.1 Detail estimate of a water bound macadam road
	5 th	3.1 Detail estimate of a water bound macadam road
9 th	1 st	3.2 Detailed estimate of a flexible pavement in cutting / filling
	2 nd	3.2 Detailed estimate of a flexible pavement in cutting / filling
	3 rd	3.2 Detailed estimate of a flexible pavement in cutting / filling
	4 th	3.2 Detailed estimate of a flexible pavement in cutting / filling
	5 th	3.2 Detailed estimate of a flexible pavement in cutting / filling
10 th	1 st	3.3 Detailed estimate of septic tank and soak pit for 50 users
	2 nd	3.3 Detailed estimate of septic tank and soak pit for 50 users
	3 rd	3.3 Detailed estimate of septic tank and soak pit for 50 users
	4 th	3.3 Detailed estimate of septic tank and soak pit for 50 users
	5 th	3.3 Detailed estimate of septic tank and soak pit for 50 users

11 th	1 st	INTERNAL ASSESMENT
	2 nd	INTERNAL ASSESMENT
	3 rd	Revision of 3.1 clause
	4 th	Revision of 3.2 clause
	5 th	Revision of 3.3 clause
12 th	1 st	4.Miscellaneous estimates 4.1 Tube well
	2 nd	4.1 Tube well
	3 rd	4.1 Tube well
	4 th	4.1 Tube well
	5 th	4.1 Tube well
13 th	1 st	4.1 Piles and Pile cap
	2 nd	4.1 Piles and Pile cap
	3 rd	4.1 Piles and Pile cap
	4 th	4.1 Piles and Pile cap
	5 th	4.1 Piles and Pile cap
14 th	1 st	4.1 Isolated and combined footings
	2 nd	4.1 Isolated and combined footings
	3 rd	4.1 Isolated and combined footings
	4 th	4.1 Isolated and combined footings
	5 th	4.1 Isolated and combined footings
15 th	1 st	Revision of 4.1
	2 nd	Revision of 4.1
	3 rd	Revision of 4.1
	4 th	5.PWD Accounts works 5.1 Works 5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair
	5 th	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

16 th	1 st	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,
	2 nd	5.2.1E-tendering, security deposit, advance payment, intermediate payment, final payment.
	3 rd	5.2.1Running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money),
	4 th	5.2.1 Supervision charges, suspense account, debit, credit, book transfer, voucher and related accounts .
	5 th	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
17 th	1 st	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
	2 nd	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages
	3 rd	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages
	4 th	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission
	5 th	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
18 th	1 st	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
	2 nd	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.
	3 rd	Revision of 5.1
	4 th	Revision of 5.2
	5 th	Revision of 5.3


28-6-24
Sign of Faculty


28-6-24
Sign of H.O.D.