

**ACADEMIC SESSION: WINTER-2025**

Discipline :Civil Engg.	Semester: 5 <sup>th</sup>	Name of the Teaching Faculty : Sri Padma Lochan Behera, Sr. Lect.(Civil)
Subject: E&CE-II	No. of Days / Week class allotted:4	Semester Duration: 14/07/2025 to 15/11/2025 No. of Weeks : 18
Week	Class day	Theory/Practical Topics:
1 <sup>st</sup>	1 <sup>st</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 1
	2 <sup>nd</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 1
	3 <sup>rd</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 1
	4 <sup>th</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 2
2 <sup>nd</sup>	1 <sup>st</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 2
	2 <sup>nd</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 2
	3 <sup>rd</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 3
	4 <sup>th</sup>	Detailed estimate of a RCC slab culvert with right angled wing walls – Problem 3
3 <sup>rd</sup>	1 <sup>st</sup>	Bar Bending Schedule of Slab – Problem 1
	2 <sup>nd</sup>	Bar Bending Schedule of Slab – Problem 2
	3 <sup>rd</sup>	Bar Bending Schedule of Slab – Problem 3
	4 <sup>th</sup>	Bar Bending Schedule of Slab – Problem 4
4 <sup>th</sup>	1 <sup>st</sup>	RCC Hume pipe culvert with splayed angled wing wall- Problem 1
	2 <sup>nd</sup>	RCC Hume pipe culvert with splayed angled wing wall- Problem 1
	3 <sup>rd</sup>	RCC Hume pipe culvert with splayed angled wing wall- Problem 2
	4 <sup>th</sup>	RCC Hume pipe culvert with splayed angled wing wall- Problem 2
5 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 1
	2 <sup>nd</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 1
	3 <sup>rd</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 1
	4 <sup>th</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 1
6 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 2
	2 <sup>nd</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 2
	3 <sup>rd</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 2
	4 <sup>th</sup>	Detailed estimate of simple type of vertical fall to given specification – Problem 2



7 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of drainage siphon to given specification –Problem 1
	2 <sup>nd</sup>	Detailed estimate of drainage siphon to given specification –Problem 1
	3 <sup>rd</sup>	Detailed estimate of drainage siphon to given specification –Problem 1
	4 <sup>th</sup>	Detailed estimate of drainage siphon to given specification –Problem 1
8 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of drainage siphon to given specification –Problem 2
	2 <sup>nd</sup>	Detailed estimate of drainage siphon to given specification –Problem 2
	3 <sup>rd</sup>	Detailed estimate of drainage siphon to given specification –Problem 2
	4 <sup>th</sup>	Detail estimate of a water bound macadam road –Problem 1
9 <sup>th</sup>	1 <sup>st</sup>	Detail estimate of a water bound macadam road –Problem 2
	2 <sup>nd</sup>	Detail estimate of a water bound macadam road –Problem 3
	3 <sup>rd</sup>	Detailed estimate of a flexible pavement in cutting / filling –Problem1
	4 <sup>th</sup>	Detailed estimate of a flexible pavement in cutting / filling –Problem1
10 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of a flexible pavement in cutting / filling –Problem2
	2 <sup>nd</sup>	Detailed estimate of a flexible pavement in cutting / filling –Problem2
	3 <sup>rd</sup>	Detailed estimate of a flexible pavement in cutting / filling –Problem3
	4 <sup>th</sup>	Detailed estimate of a flexible pavement in cutting / filling –Problem3
11 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of septic tank and soak pit for 50 users – Problem 1
	2 <sup>nd</sup>	Detailed estimate of septic tank and soak pit for 50 users – Problem 1
	3 <sup>rd</sup>	Detailed estimate of septic tank and soak pit for 50 users – Problem 2
	4 <sup>th</sup>	Detailed estimate of septic tank and soak pit for 50 users – Problem 2
12 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of septic tank and soak pit for 50 users – Problem 3
	2 <sup>nd</sup>	Detailed estimate of septic tank and soak pit for 50 users – Problem 3
	3 <sup>rd</sup>	Detailed estimate of tube well- Problem 1
	4 <sup>th</sup>	Detailed estimate of tube well- Problem 2
13 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of Piles and Pile cap – Problem 1
	2 <sup>nd</sup>	Detailed estimate of Piles and Pile cap – Problem 1
	3 <sup>rd</sup>	Detailed estimate of Piles and Pile cap – Problem 2
	4 <sup>th</sup>	Detailed estimate of Piles and Pile cap – Problem 2
14 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of isolated footing- Problem 1
	2 <sup>nd</sup>	Detailed estimate of isolated footing- Problem 2
	3 <sup>rd</sup>	Detailed estimate of combined footing- Problem 1
	4 <sup>th</sup>	Detailed estimate of combined footing- Problem 2
15 <sup>th</sup>	1 <sup>st</sup>	Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair.
	2 <sup>nd</sup>	Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement.
	3 <sup>rd</sup>	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& final bill
	4 <sup>th</sup>	
16 <sup>th</sup>	1 <sup>st</sup>	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 .



	2 <sup>nd</sup>	Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials
	3 <sup>rd</sup>	Labour employed, standard measurement books and common irregularity
	4 <sup>th</sup>	Muster roll : Its preparation & use for making payment of pay & wages
17 <sup>th</sup>	1 <sup>st</sup>	Acquittance Roll : Its preparation & use for making payment of pay & wages
	2 <sup>nd</sup>	Labour & labour report, method of labour payment, use of forms and necessity of Submission
	3 <sup>rd</sup>	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 <sup>th</sup>	Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc
18 <sup>th</sup>	1 <sup>st</sup>	Doubt Clearing Class
	2 <sup>nd</sup>	Doubt Clearing Class
	3 <sup>rd</sup>	Previous Year Question Discussion
	4 <sup>th</sup>	Previous Year Question Discussion

Prepared By :

Padmalochan Behera

*[Signature]*

Approved By:

*[Signature]*

HOD(Civil)