

Discipline- Civil Engineering			LESSON PLAN (WINTER-2023)
Semester from Date-01.08.23 to 31.11.2023			Semester- 3 rd (2 nd Year)
No of classes allotted(hours/week)-04			No of weeks- 15
Subject-ESTIMATION & COST EVALUATION - I			Total Period- 60
Name of the Teaching Faculty-SUDHASHREE MUNDA			Subject Code- Th.4
WEEK	DATE	NO OF CLASSES	TOPICS TO BE COVERED
1 st	03/08/23	2	INTRODUCTION- Briefing about the Syllabus, Introduction to the subject , It's objective and practical application of it, Mark distribution, Reference books, etc.
CHAPTER-1-Introduction			
2 nd	07/08/23	2	1.1 Types of estimates - Plinth area, floor area / carpet area
	10/08/23	2	1.2 Units and modes of measurements as per IS 1200
3 rd	14/08/23	2	1.3 Accuracy of measurement for different item of work
	CHAPTER-2--Quantity Estimate of Building		
4 th	17/08/23	2	2.1 Short wall long wall method and centre line method
	21/08/23	2	-----DO-----
5 th	24/08/23	2	-----DO-----
	28/08/23	2	-----DO-----
6 th	31/08/23	2	MONTHLY CLASS TEST-AUGUST
	04/09/23	2	-----DO-----
7 th	07/09/23	2	deductions in masonry, plastering, white washing, painting etc.,
	11/09/23	2	-----DO-----
8 th	14/09/23	2	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mummy room.
	18/09/23	2	-----DO-----
9 th	21/09/23	2	-----DO-----
	25/09/23	2	-----DO-----
10 th	28/09/23	2	MONTHLY CLASS TEST-SEPTEMBER
	CHAPTER-3: Analysis of Rates and Valuation.		
11 th	05/10/23	2	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar
12 th	09/10/23	2	-----DO-----
	12/10/23	2	-----DO-----
13 th	16/10/23	2	laterite stone masonry in Cement Mortar, cement plaster, white washing,
	19/10/23	2	Artificial Stone flooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.
14 th	26/10/23	2	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)
	30/10/23	2	MONTHLY CLASS TEST-OCTOBER
15 th	02/11/23	2	-----DO-----
	06/11/23	2	3.3 Abstract of cost of estimate.
16 th	09/11/23	2	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.
	13/11/23	2	-----DO-----
17 th	CHAPTER-4: Administrative Set-Up of Engineering Organizations		
	16/11/23	2	: 4.1 Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc..
18 th	20/11/23	2	Duties and responsibilities of Engineers at different positions /levels.
	23/11/23	2	REVISION
19 th	30/11/23	2	MODEL TEST
TOTAL=		64	

Signature of concerned faculty

Principal
Orissa School of Mining Engineering
Keonjhar

LESSON PLAN (WINTER-2023)

Discipline- Civil Engineering	Semester-3 rd (2 nd Year)
Semester from Date-01.08.23 to 31.11.2023	No of weeks-15
No of classes allotted(hours/week)-03	Total Period-45
Subject-ESTIMATION PRACTICE-I(Computer Aided)	Subject Code-Pr.3

Name of the Teaching Faculty-SUDHASHREE MUNDA			
WEEK	DATE	NO OF CLASSES	TOPICS TO BE COVERED
1 st	04/08/23	3	Syllabus, Introduction to the subject , It's objective and practical application of it, Reference books, etc. 1.0 Preparation of plinth area estimate & detailed estimate for the following ; 1.1 Single storeyed two roomed building with specification as per Orissa P.W.D. schedule of rates and analysis of rates.
2 nd	11/08/23	3	-----SAME AS ABOVE-----
3 rd	18/08/23	3	-----SAME AS ABOVE-----& viva
4 th	25/08/23	3	1.2 A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates .
5 th	01/09/23	3	-----SAME AS ABOVE-----
6 th	08/09/23	3	-----SAME AS ABOVE----- & viva
7 th	15/09/23	3	2.0 Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software .
8 th	22/09/23	3	-----SAME AS ABOVE-----
9 th	06/10/23	3	-----SAME AS ABOVE-----
10 th	13/10/23	3	-----SAME AS ABOVE-----& viva
11 th	20/10/23	3	3.0 Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software
12 th	27/10/23	3	-----SAME AS ABOVE-----
13 th	03/11/23	3	-----SAME AS ABOVE-----& viva
14 th	10/11/23	3	4.0 Preparation of abstract of cost and bill of quantities of the estimates as per item no. 1.0 above with help of MS Excel software
15 th	17/11/23	3	-----SAME AS ABOVE-----& viva
16 th	24/11/23	3	FINAL RECORD SUBMISSION
	TOTAL=	48 hours	

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LESSON PLAN (WINTER-2023)

Discipline- Civil Engineering

Semester-3rd(2nd Year)

Semester from Date-01.08.23 to 31.11.2023

No of weeks-15

No of classes allotted(hours/week)-03

Total Period-45

Subject-Student Centered Activities(SCA)

Name of the Teaching Faculty-SUDHASHREE MUNDA

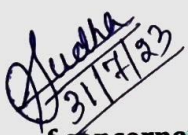
WEEK	DATE	NO OF CLASSES	TOPICS TO BE COVERED
1 st	02/08/23	3	Introduction Class
2 nd	09/08/23	3	Personality Development
3 rd	16/08/23	3	Environmental issues
4 th	23/08/23	3	Quiz
5 th	13/09/23	3	Hobbies
6 th	27/09/23	3	Field visits
7 th	04/10/23	3	cultural activities
8 th	11/10/23	3	Library studies/Reading books & newspaper
9 th	18/10/23	3	Poster Making Competition
10 th	25/10/23	3	Classes on MOOCS/ SWAYAM
11 th	01/11/23	3	Seminar
12 th	08/11/23	3	Environmental issues and case study
13 th	15/11/23	3	Decision making, reasoning and aptitude class
14 th	22/11/23	3	Making models related to civil engg.
15 th	29/11/23	3	Group Discussion
	TOTAL=	45	

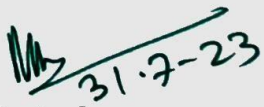
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Discipline- Civil Engineering		LESSON PLAN (WINTER-2023)	
Semester from Date-01.08.23 to 31.11.2023		Semester-5 th (3 rd Year)	
No of classes allotted(hours/week)-04		No of weeks-15	
Subject-ESTIMATION & COST EVALUATION - II		Total Period-60	
Name of the Teaching Faculty-SUDHASHREE MUNDA		Subject Code-Th. 5	
WEEK	DATE	NO OF CLASSES	TOPICS TO BE COVERED
1 st	03/08/23	1	INTRODUCTION- Briefing about the Syllabus, Introduction to the subject , It's objective and practical application of it, Mark distribution, Reference books, etc.
	04/08/23	1	CHAPTER-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	07/08/23	2	Problem Solving
	10/08/23	1	Problem Solving
	11/08/23	1	Problem Solving and Revision
3 rd	14/08/23	2	1.2 RCC Hume pipe culvert with splayed angled wing wall.
	17/08/23	1	Problem Solving
	18/08/23	1	Problem Solving and Revision
4 th	21/08/23	2	CHAPTER-2. Estimate of irrigation structures
	24/08/23	1	2.1 Detailed estimate of simple type of vertical fall to given specification
	25/08/23	1	Problem Solving
5 th	28/08/23	2	Problem Solving and Revision
	31/08/23	1	MONTHLY CLASS TEST-1 (AUGUST)
	01/09/23	1	2.2 Detailed estimate of drainage siphon to given specification.
6 th	04/09/23	2	Problem Solving
	07/09/23	1	Problem Solving and Revision
	08/09/23	1	CHAPTER-3. Detailed estimate of roads
7 th	11/09/23	2	3.1 Detail estimate of a water bound macadam road
	14/09/23	1	Problem Solving
	15/09/23	1	Problem Solving and Revision
8 th	18/09/23	2	3.2 Detailed estimate of a flexible pavement in cutting / filling
	21/09/23	1	Problem Solving
	22/09/23	1	Problem Solving and Revision
9 th	25/09/23	2	3.2 Detailed estimate of septic tank and soak pit for 50 users
	28/09/23	1	Problem Solving
10 th	05/10/23	1	Problem Solving and Revision
	06/10/23	1	CHAPTER-4. Miscellaneous estimates 4.1 Tube well
11 th	09/10/23	2	MONTHLY CLASS TEST-2 (SEPTEMBER)
	12/10/23	1	Problem Solving
	13/10/23	1	Problem Solving
12 th	16/10/23	2	Estimation of Piles and Pile cap
	19/10/23	1	Problem Solving
	20/10/23	1	Problem Solving
13 th	26/10/23	1	Estimation of Isolated footing
	27/10/23	1	Problem Solving
14 th	30/10/23	2	Estimation of combined footings.
	02/11/23	1	Problem Solving
	03/11/23	1	MONTHLY CLASS TEST-OCTOBER
15 th	06/11/23	2	CHAPTER-5.PWD Accounts works 5.1 Works

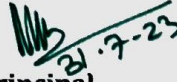
			5.1.1 Classification of work-original, major, petty, repair work, annual repair, special repair, quadrantal repair. 5.1.2 Concept of Method of execution of works through the contractors and department, contract and agreement, work order, types of contract, piece work agreement.
	09/11/23	1	5.2 Accounts of works - 5.2.1 Explanation of various terms- Administrative approval, technical sanction,tender, preparation of notice inviting tender, quotations, earnest money, E-tendering, security deposit.
	10/11/23	1	advance payment, intermediate payment, final payment, running bill, 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
16 th	13/11/23	2	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
	16/11/23	1	5.2.3 Muster roll : Its preparation & use for making payment of pay & wages
	17/11/23	1	5.2.4 Acquittance Roll : Its preparation & use for making payment of pay & wages 5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission
17 th	20/11/23	2	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
	23/11/23	1	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.
	24/11/23	1	REVISION OF CHAPTER-5
18 th	30/11/23	1	MODEL TEST
	TOTAL=	62	


Signature of concerned faculty


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LESSON PLAN (WINTER-2023)			
Discipline- Civil Engineering		Semester-5 th (3 rd Year)	
Semester from Date-01.08.23 to 31.11.2023		No of weeks-15	
No of classes allotted(hours/week)-03		Total Period-45	
Subject-ESTIMATION PRACTICE-II (Computer Aided)		Subject Code-Pr.2	
Name of the Teaching Faculty-SUDHASHREE MUNDA			
WEEK	DATE	NO OF CLASSES	TOPICS TO BE COVERED
1 st	01/08/23	3	INTRODUCTION- Briefing about the Syllabus, Introduction to the subject . CHAPTER-1:Detailed estimate of a RCC slab culvert with right angled wing walls with bar bending schedule in excel sheet.
2 nd	08/08/23	3	-do-
3 rd	22/08/23	3	Detailed estimate of RCC Hume pipe culvert with splayed angled wing wall in excel sheet.
4 th	29/08/23	3	CHAPTER-2: ESTIMATE OF IRRIGATION STRUCTURES-Detailed estimate of simple type of vertical fall to given specification in excel sheet.
5 th	05/09/23	3	-do-
6 th	12/09/23	3	Detailed estimate of drainage siphon to given specification in excel sheet.
7 th	26/09/23	3	CHAPTER-3:DETAILED ESTIMATE OF ROADS-Detail estimate of a water bound macadam road in excel sheet.
8 th	03/10/23	3	-do-
9 th	10/10/23	3	Detailed estimate of a flexible pavement in cutting / filling in excel sheet.
10 th	17/10/23	3	Detailed estimate of septic tank and soak pit for 50 users in excel sheet.
11 th	31/10/23	3	CHAPTER-4: MISCELLANEOUS ESTIMATES
12 th	07/11/23	3	Detailed estimate of Tube well in excel sheet.
13 th	14/11/23	3	Detailed estimate of piles and pile cap in excel sheet.
14 th	21/11/23	3	Detailed estimate of isolated and combined footings in excel sheet.
15 th	28/11/23	3	REPORT SUBMISSION
	TOTAL=	45	


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LESSON PLAN (WINTER-2023)

Discipline- Civil Engineering

Semester-5th (3rd Year)

Semester from Date-01.08.23 to 31.11.2023

No of weeks-15

No of classes allotted(hours/week)-06

Total Period-90

Subject- CIVIL ENGINEERING LABORATORY-II

Subject Code-Pr. 1

Name of the Teaching Faculty-SUDHASHREE MUNDA

TOPICS TO BE COVERED

WEEK	DATE	NO OF CLASSES	TOPICS TO BE COVERED
1 st	03/08/23	3	INTRODUCTION- Briefing about the Syllabus, Introduction to the subject , It's objective and practical application of it, Mark distribution, Reference books, etc .
	05/08/23	3	1.0 TESTS ON SOIL -1.1 Determination of Specific gravity of Soil by Pycnometer /Density bottle.
2 nd	10/08/23	3	1.2 Determination of Field Density of Soil by Core Cutter Method.
	12/08/23	3	1.3 Determination of Particle Size gradation of sand/Gravel by sieve analysis.
3 rd	17/08/23	3	1.4 Wet mechanical analysis using pipette method for clay and silt.
	19/08/23	3	1.5 (a) Determination of Liquid Limit by soil by Casagrande's apparatus.
4 th	24/08/23	3	(b) Determination of Plastic limit of soil.
	26/08/23	3	1.6 Determination of Shrinkage limit of soil.
5 th	31/08/23	3	1.7 Determination of MDD & OMC of soil by using modified Proctor Test.
	02/09/23	3	1.8 Determination of CBR value using Laboratory CBR Testing device.m
6 th	07/09/23	3	1.9 Determination of c and ϕ of soil by triaxial testing device.
	09/09/23	3	1.10 Determination of coefficient of permeability of soil by constant head method.
7 th	14/09/23	3	Q/A Discussion
	16/09/23	3	2.0 HYDRAULICS LABORATORY:
8 th	21/09/23	3	2.1 Verification of Bernoulli's Theorem.
	23/09/23	3	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.
9 th	28/09/23	3	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe.
	30/09/23	3	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.
10 th	05/10/23	3	Q/A Discussion
11 th	07/10/23	3	3.0 TRANSPORTATION LABORATORY: 3.1 Penetration Test of Bitumen.
	12/10/23	3	3.2 Ductility Test of Bitumen.
12 th	14/10/23	3	3.3 Viscosity Test of Bitumen.
	19/10/23	3	3.4 Bitumen content by centrifuge extractor.
14 th	26/10/23	3	Q/A Discussion
15 th	28/10/23	3	4.0 PUBLIC HEALTH ENGINEERING LABORATORY: 4.1 Determination of Turbidity of water Sample using Turbidimeter/Nephelometer/Jackson's Candle Turbidimeter.
	02/11/23	3	4.2 Determination of pH of Water sample using (a) pH - meter (b) colour Comparator.
16 th	04/11/23	3	4.3 Determination of Chloride content of a Water sample using method of titration.
	09/11/23	3	4.4 Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test.
17 th	11/11/23	3	4.5 Determination of dissolved oxygen in a water sample.
	16/11/23	3	4.6 Determination of bacteriological quality of water sample by Coliform test.
18 th	18/11/23	3	Q/A Discussion
	23/11/23	3	Q/A Discussion
19 th	25/11/23	3	FINAL SUBMISSION OF RECORD AND VIVA
TOTAL=		99	

Signature of concerned faculty

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