

THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 3RD, SECTION :- (C1 & C2)

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU
LECT. IN CIVIL ENGG.

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT : STRUCTURAL MECHANICS (TH-1)

CLASS ALLOTTED / WEEK: 05 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 Review Of Basic Concepts	4		
	Basic Principle of Mechanics, Force,	1	AUGUST	Dt. 02.08.2023 , Dt. 03.08.2023
	Moment	1		Dt. 04.08.2023
	Support conditions, Conditions of equilibrium	1		Dt. 04.08.2023 , Dt. 05.08.2023
	C G & MI, Free body diagram ,CG and MI of different sections	1		Dt. 07.08.2023
2	UNIT-2.1 Simple And Complex Stress, Strain	15		
	Introduction to stresses and strains	1		Dt. 09.08.2023 , Dt. 10.08.2023
	Mechanical properties of materials – Rigidity, Elasticity, Plasticity, Compressibility, Hardness, Toughness, Stiffness, Brittleness, Ductility, Malleability, Creep, Fatigue, Tenacity, Durability	1		Dt. 11.08.2023 , Dt. 12.08.2023
	Types of stresses -Tensile, Compressive and Shear stresses	1		Dt. 14.08.2023
	Types of strains - Tensile, Compressive and Shear strains	1		Dt. 16.08.2023
	Complimentary shear stress - Diagonal tensile / compressive Stresses due to shear	1		Dt. 17.08.2023
	Elongation and Contraction, Longitudinal and Lateral strains	1		Dt. 18.08.2023
	Poisson's Ratio, Volumetric strain, computation of stress, strain, Poisson's ratio, change in dimensions and volume	1		Dt. 19.08.2023 , Dt. 21.08.2023
	Hooke's law - Elastic Constants, Derivation of relationship between the elastic constants	1		Dt. 21.08.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-2.2 Application of simple stress and strain in engineering field:			
	Behaviour of ductile and brittle materials under direct loads, Stress Strain curve of a ductile material, Limit of proportionality, Elastic limit, Yield stress,	1		Dt. 23.08. 2023
	Ultimate stress, Breaking stress, Percentage elongation, Percentage reduction in area, Significance of percentage elongation and reduction in area of cross section	1		Dt. 24.08. 2023
	Deformation of prismatic bars due to uniaxial load, Deformation of prismatic bars due to its self weight			Dt. 25.08. 2023
	UNIT-2.3 Complex Stress and Strain			
	Principal stresses and strains: Occurrence of normal and tangential stresses	1		Dt. 26.08. 2023
	Concept of Principal stress and Principal Planes, major and minor principal stresses	1		Dt. 28.08. 2023
	major and minor principal stresses major and minor principal stresses and their orientations	1		Dt. 31.08. 2023
	Mohr's Circle and its application to solve problems of complex stresses	2	SEPTEMBER	Dt.01.09. 2023, Dt. 02.09. 2023
3	UNIT-3.1 Stresses In Beams and Shaft	10		
	Stresses in beams due to bending: Bending stress in beams –	1		Dt. 04.09. 2023
	Theory of simple bending – Assumptions	1		Dt. 07.09. 2023
	Moment of resistance – Equation for Flexure– Flexural stress distribution	1		Dt. 08.09. 2023
	Curvature of beam – Position of N.A. and Centroidal Axis – Flexural rigidity – Significance of Section modulus	1		Dt. 09. 09. 2023
	UNIT-3.2 Shear Stresses in Beams	1		Dt. 11.09. 2023
	Shear stress distribution in beams of rectangular section, circular and standard sections symmetrical about vertical axis	1		Dt. 13.09. 2023

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	UNIT-3.3 Stresses in Shafts due to Torsion			
	Concept of torsion, basic assumptions of pure torsion	1		Dt. 14.09.2023
	Torsion of solid and hollow circular sections, polar moment of inertia	1		Dt. 15.09.2023
	Torsional shearing stresses, angle of twist, torsional rigidity, equation of torsion			Dt. 16.09.2023
	UNIT-3.4 Combined Bending and Direct Stresses			
	Combined bending and direct stresses:Combination of stresses, Combined direct and bending stresses, Maximum and Minimum stresses in Sections	1		Dt. 18.09.2023
	Conditions for no tension, Limit of eccentricity, Middle third/fourth rule, Core or Kern for square, rectangular and circular sections, chimneys, dams and retaining walls	1		Dt. 21.09.2023
4	UNIT-4 Columns and Struts	4		
	Columns and Struts, Definition, Short and Long columns	1		Dt. 22.09.2023
	End conditions, Equivalent length / Effective length, Slenderness ratio	1		Dt. 23.09.2023
	Axially loaded short and long column, Euler's theory of long columns	1		Dt. 25.09.2023
	Critical load for Columns with different end conditions(numericals)	1		Dt. 27.09.2023
5	UNIT-5.1, Shear Force and Bending Moment	12		
	Types of Loads: Concentrated (or) Point load, Uniformly Distributed load (UDL),	1		Dt. 28.09.2023
	Types of Supports: Simple support, Roller support, Hinged support, Fixed support,	1		Dt. 30.09.2023
	Types of Reactions: Vertical reaction, Horizontal reaction, Moment reaction	1	OCTOBER	Dt. 04.10.2023 , Dt. 05.10.2023

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	Types of Beams based on support conditions: Calculation of support reactions using equations of static equilibrium.	1		Dt. 06.10.2023
	UNIT-5.2 Shear Force and Bending Moment in Beams			
	Shear Force and Bending Moment	1		Dt. 07.10.2023
	Signs Convention for S.F. and B.M, S.F and B.M of general cases of determinate beams with concentrated loads and udl only.	1		Dt. 09.10.2023
	S.F and B.M diagrams for Cantilevers	1		Dt. 11.10.2023
	Simply supported beams and Over hanging beams	1		Dt. 12.10.2023
	Position of maximum BM	1		Dt. 13.10.2023
	Point of contra flexure, Relation between intensity of load, S.F and B.M.(numericals)	1		Dt. 14.10.2023
	Numericals on shear force and bending moment of simply supported beam	1		Dt. 16.10.2023
	Numericals on shear force and bending moment of simply supported beam	1		Dt. 18.10.2023
6	UNIT-6.1 Slope and Deflection	10		
	Shape and nature of elastic curve (deflection curve);	1		Dt. 19.10.2023
	Relationship between slope, deflection and curvature (No derivation)	1		Dt. 20.10.2023
	Importance of slope and deflection.	1		Dt. 30.10.2023
	Slope and deflection of cantilever beam under point load	1	NOVEMBER	Dt. 01.11.2023
	Slope and deflection of simply supported beams under concentrated load	1		Dt. 02.11.2023
	Slope and deflection of cantilever beam under u.d.l	1		Dt. 03.11.2023

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	Slope and deflection of simply supported beams under u.d.l	1		Dt. 04. 11. 2023
	Slope and deflection of cantilever by Double Integration method,	1		Dt. 06. 11. 2023
	Slope and deflection of cantilever by Macaulay's method	1		Dt. 08. 11. 2023
	Slope and deflection of simply supported beams under different load condition by maculay's method	1		Dt. 09. 11. 2023
	UNIT-7 Indeterminate Beams	10		
	Indeterminacy in beams, Principle of consistent deformation/compatibility,	1		Dt. 10. 11. 2023
	Analysis of propped cantilever, fixed and two span continuous beams by principle of superposition Indeterminacy in beams, Principle of consistent deformation/compatibility,	1		Dt. 11. 11. 2023, Dt. 13. 11. 2023
	SF and BM diagrams (point load and udl covering full span)	1		Dt. 13. 11. 2023
	Numericals on shear force and bending moment diagram propped cantilever beam	1		Dt. 15. 11. 2023
7	Numericals on shear force and bending moment diagram fixed beam	1		Dt. 16. 11. 2023
	Numericals on shear force and bending moment diagram fixed beam	1		Dt. 17. 11. 2023
	Numericals on shear force and bending moment diagram fixed beam	1		Dt. 18. 11. 2023
	Numericals on shear force and bending moment diagram propped cantilever beam	1		Dt. 20. 11. 2023
	Numericals on shear force and bending moment diagram of continuous beam	1		Dt. 22. 11. 2023
	Numericals on shear force and bending moment diagram of continuous beam	1		Dt. 23. 11. 2023

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	Trusses	10		
	Types of trusses, statically determinate and indeterminate trusses,	1		Dt. 24.11.2023
	degree of indeterminacy, stable and unstable trusses, advantages of trusses.	1		Dt. 25.11.2023
	Analysis of trusses: Analytical method (Method of joints, method of Section)	1		Dt. 29.11.2023
	Numericals on method of joints of truss	1		Dt. 30.11.2023
8	Numericals on method of joints of truss	1	DECEMBER	Dt. 01.12.2023
	Numericals on method of joints of truss	1		Dt. 02.12.2023
	Numericals on method of joints of truss	1		Dt. 04.12.2023
	Numericals on method of section of truss	1		Dt. 06.12.2023, Dt. 07.12.2023
	Numericals on method of section of truss	1		Dt. 08.12.2023
	Numericals on method of section of truss	1		Dt. 09.12.2023

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 3RD, SECTION : (C1&C2)

NAME OF THE FACULTY : (1) ER. SWARNAPRAVA PARIDA
(2) ER. NANDINI PRADHAN (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT : GEOTECHNICAL ENGINEERING (TH-2)

CLASS ALLOTTED / WEEK: 05 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 : INTRODUCTION	2		
	Soil and Soil Engineering ,Scope of Soil Mechanics	1	AUGUST	Dt. 01. 08. 2023 , Dt. 03. 08. 2023
	Origin and formation of soil	1		Dt. 04. 08. 2023
2	UNIT-2 : PRELIMINARY DEFINATIONS AND RELATIONSHIP	6		
	Soil as a three Phase system	1		Dt. 07. 08. 2023
	Water Content, Density, Specific gravity, Voids ratio, Porosity, Percentage of air voids, air content, degree of saturation, density Index	1		Dt. 08. 08. 2023
	Degree of saturation, density Index, Bulk/Saturated/dry/submerged density, Interrelationship of various soil parameters	1		Dt. 10. 08. 2023
	Interrelationship of various soil parameters	1		Dt. 11. 08. 2023
	Problems discussion on soil parameters and their relationships	1		Dt. 14. 08. 2023
	Problems discussion on soil parameters and their relationships	1		Dt. 17. 08. 2023

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3	UNIT-3 INDEX PROPERTIES OF SOIL	4		
	Water Content , Specific Gravity	1		Dt. 18.08.2023
	Particle size distribution: Sieve analysis, wet mechanical analysis,	1		Dt. 21.08.2023
	Particle size distribution curve and its uses	1		Dt. 22.08.2023
	Consistency of Soils, Atterberg's Limits, Plasticity Index, Consistency Index, Liquidity Index	1		Dt. 24.08.2023 , Dt. 25.08.2023
4	UNIT-4: CLASSIFICATION OF SOIL	6		
	Particle size classification system	1		Dt. 28.08.2023
	Highway research board classification system	1		Dt. 29.08.2023
	Unified soil classification system	1		Dt. 31.08.2023
	Indian standard soil classification system	1	SEPTEMBER	Dt. 01.09.2023
	Plasticity chart	1		Dt. 04.09.2023
	Revision	1		Dt. 05.09.2023
5	UNIT-5 : PERMEABILITY AND SEEPAGE	7		
	Concept of Permeability, Darcy's Law, Co-efficient of Permeability	1		Dt. 07.09.2023
	Factors affecting Permeability	1		Dt. 08.09.2023
	Constant head permeability and falling head permeability Test	1		Dt. 11.09.2023 , Dt. 12.09.2023
	Seepage pressure, effective stress, phenomenon of quick sand	1		Dt. 14.09.2023 , Dt. 15.09.2023
	effective stress, phenomenon of quick sand	1		Dt. 18.09.2023
	Problem based on effective stress	1		Dt. 21.09.2023
	Problem based on effective stress	1		Dt. 22.09.2023

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6	UNIT-6 : COMPACTION AND CONSOLIDATION	8		
	Compaction: Compaction, Light and heavy compaction Test	1		Dt. 25.09.2023
	Optimum Moisture content, Maximum dry density	1		Dt. 26.09.2023
	Zero air void line, Factors affecting Compaction	1		Dt. 28.09.2023
	Field compaction methods and their suitability	1	OCTOBER	Dt. 03.10.2023
	Consolidation, distinction between compaction and consolidation.	1		Dt. 05.10.2023
	Terzaghi's model analogy of compression/ springs showing the process of consolidation	1		Dt. 06.10.2023
	Field implications	1		Dt. 09.10.2023
	Revision and discussion	1		Dt. 10.10.2023
7	UNIT-7 : SHEAR STRENGTH	6		
	Concept of shear strength, Mohr- Coulomb failure theory	1		Dt. 12.10.2023
	Cohesion, Angle of internal friction, strength envelope for different type of soil,	1		Dt. 13.10.2023
	Measurement of shear strength:- Direct shear test, triaxial shear test,	1		Dt. 16.10.2023
	unconfined compression test and vane-shear test	1		Dt. 17.10.2023
	Problems based shear strength	1		Dt. 19.10.2023
	Revision and discussion	1		Dt. 20.10.2023

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8	UNIT-8 :EARTH PRESSURE AND RETAINING STRUCTURE	7		
	Active earth pressure, Passive earth pressure,	1		Dt. 30.10.2023
	Earth pressure at rest.	1		Dt. 31.10.2023
	Use of Rankine's formula for the following cases (cohesion-less soil only) (i) Backfill with no surcharge,	1	NOVEMBER	Dt. 02.11.2023
	Use of Rankine's formula for the following cases (cohesion-less soil only) ii) backfill with uniform surcharge	1		Dt. 03.11.2023
	Problem based on earth pressure	1		Dt. 06.11.2023
	Problem based on earth pressure	1		Dt. 07.11.2023
	Revision and class test	1		Dt. 09.11.2023, Dt. 10.11.2023
9	UNIT-9 : Foundation Engineering	13		
	Introduction to foundation engineering	1		Dt. 13.11.2023, Dt. 14.11.2023
	Functions of foundations,	1		Dt. 16.11.2023
	Different types of foundations;shallow and deep	1		Dt. 16.11.2023
	Different type of shallow and deep foundations with sketches.	1		Dt. 17.11.2023
	Types of failure (General shear, Local shear & punching shear),	1		Dt. 20.11.2023
	Bearing capacity of soil	1		Dt. 21.11.2023
	Bearing capacity of soils using Terzaghi's formulae	1		Dt. 23.11.2023

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	Problems based on bearing strength using terzaghi formula	1		Dt. 24.11.2023, Dt. 28.11.2023
	IS Code formulae for strip, Circular and square footings	1		Dt. 30.11.2023
	Problems based on bearing strength based on IS CODE formula	1	DECEMBER	Dt. 01.12.2023
	Effect water table on bearing capacity of soil	1		Dt. 04.12.2023
	Revision	1		Dt. 05.12.2023
	Class test	1		Dt. 07.12.2023, Dt. 08.12.2023

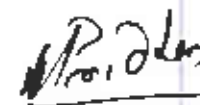


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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 3RD, SECTION : (C1 & C2)

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D. IN CIVIL ENGG.), (2) ER. SIBANI SAHU, (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT : BUILDING MATERIALS & CONSTRUCTION TECHNOLOGY (TH-3)

CLASS ALLOTTED / WEEK: 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	(PART -A)UNIT-1 : STONE	5		
	Introduction,classification of rock	1	AUGUST	Dt. 01.08.2023 , Dt.02.08.2023
	uses of stone, natural bed of stone	1		Dt. 04.08.2023
	Qualities of good building stone	1		Dt. 05.08.2023
	Dressing of stone	1		Dt. 07.08.2023, Dt 08.08.2023
	Characteristics of different types of stone and their uses	1		Dt. 09.08.2023, Dt. 11.08.2023
2	UNIT-2 :Bricks	6		
	Brick earth – its composition	1		Dt. 12.08.2023 , Dt.14.08.2023
	Brick making – Preparation of brick earth, Moulding, Drying,	1		Dt. 16.08.2023, Dt.18.08.2023
	Burning in kilns (continuous Process)	1		Dt. 19.08.2023 , Dt.21.08.2023
	Classification of bricks	1		Dt. 22.08.2023
	Size of traditional and modular bricks	1		Dt. 23.08.2023
	Qualities of good building bricks	1		Dt. 25.08.2023
3	UNIT-3 : Cement, Mortar and Concrete	7		
	Cement: Types of cements, Properties of cements, Manufacturing of cement	1		Dt. 26.08.2023 , Dt. 28.08.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Importance and application of blended cement with fly ash and blast furnace slag	1		Dt. 29.08.2023
	Mortar: Definition and types of mortar	1	SEPTEMBER	Dt. 01.09.2023
	Sources and classification of sand, Bulking of sand	1		Dt. 02.09.2023, Dt. 04.09.2023
	Use of gravel, morrum and fly ash as different building material	1		Dt. 05.09.2023, Dt. 08.09.2023
	Concrete: Definition and composition- Water cement ratio- Workability, mechanical properties of aggregate	1		Dt. 09.09.2023
	Grading of aggregates, mixing, placing, compacting and curing of concrete	1		Dt. 11.09.2023, Dt. 12.09.2023
	UNIT-4 :Other Construction Materials	7		
	Timber: Classification and Structure of timber	1		Dt. 13.09.2023
	Seasoning of timber – Importance	1		Dt. 15.09.2023
	Characteristics of good timber	1		Dt. 16.09.2023, Dt. 18.09.2023
4	Clay products and refractory materials – Definition and Classification	1		Dt. 22.09.2023
	Properties and uses of refractory materials- tiles, terracotta, porcelain glazing	1		Dt. 23.09.2023
	Iron and Steel: Uses of cast iron, wrought iron, mild steel and tor steel	1		Dt. 25.09.2023
	Revision and class test	1		Dt. 26.09.2023, Dt. 27.09.2023
	UNIT-5 :Surface Protective Materials	5		
5	Composition of Paints, enamels, varnishes	1		Dt. 30.09.2023
	Types and uses of surface protective materials like Paints, Enamels	1	OCTOBER	Dt. 03.10.2023

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	Types of Varnishes, Distempers, Emulsion, French polish and Wax Polish.	1		Dt. 04.10.2023 , Dt. 06.10.2023
	Uses of Varnishes, Distempers, Emulsion, French polish and Wax Polish.	1		Dt. 07.10.2023
	Class test and revision	1		Dt. 09.10.2023
6	(PART-B) UNIT-1 :Introduction	2		
	Buildings and classification of buildings based on occupancy	1		Dt. 10.10.2023
	Different components of a building. Site investigation – objectives, site reconnaissance and explorations	1		Dt. 11.10.2023
7	UNIT-2 :Foundations	4		
	Concept of foundation and its purpose,Types of foundations – shallow and deep	1		Dt. 13.10.2023
	Shallow foundation-constructional details of : Spread foundations for walls, thumb rules for depth and width of foundation and thickness of concrete block	1		Dt. 14.10.2023 Dt. 16.10.2023
	Deep foundations: Pile foundations-their suitability	1		Dt. 17.10.2023
	Classification of piles based on materials, function and method of installation	1		Dt. 18.10.2023

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8	UNIT-3: Walls & Masonry Works :	6		
	Purpose of walls Classification of walls – load bearing, non-load bearing walls, retaining walls	1		Dt. 20.10.2023 , Dt. 30.10.2023 Dt. 31.10.2023
	Classification of walls as per materials of construction: brick, stone, reinforced brick, reinforced concrete, precast, hollow and solid concrete block and composite masonry walls	1	NOVEMBER	Dt. 01.11.2023
	Partition Walls : Suitability and uses of brick and wooden partition walls, Brick masonry : Definition of different terms	1		Dt. 03.11.2023
	Bond – meaning and necessity; English bond for 1 and 1-1/2 Brick thick walls. T, X and right angled corner junctions. Thickness for 1 and 1-1/2 brick square pillars in English bond	1		Dt. 04.11.2023
	Stone Masonry :Glossary of terms –String course, corbel, cornice, block-in-course, grouting	1		Dt. 06.11.2023 , Dt. 07.11.2023
	mouldings, templates, throating, through stones, parapet, coping, pilaster and buttress	1		Dt. 08.11.2023
	UNIT-4 :Doors, Windows And Lintels	4		
9	Glossary of terms used in doors and windows	1		Dt. 10.11.2023 , Dt. 11.11.2023
	Doors – different types of doors	1		Dt. 13.11.2023 , Dt. 14.11.2023
	Windows – different types of windows	1		Dt. 15.11.2023
	Purpose of use of arches and lintels	1		Dt. 17.11.2023

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10	UNIT-5 :Floors, Roofs and Stairs	5		
	Floors: Glossary of terms ,Types of floor finishes – cast-in-situ, concrete flooring(monolithic, bonded), terrazzo tile flooring, cast in situ Terrazzo flooring, timber flooring	1		Dt. 18.11. 2023 Dt. 20.11. 2023
	Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roof	1		Dt. 21.11. 2023
	Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing, head room, mummy room.	1		Dt. 22.11. 2023
	Various types of stair case ~ straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs), bifurcated stair, spiral stair, cantilever stair, tread riser stair.	1		Dt. 24.11. 2023
	Revision	1		Dt. 25.11. 2023
11	UNIT-6 :Protective, Decorative Finishes, Damp and Termite Proofing	5		
	Plastering – purpose – Types of plastering, Types of plaster finishes – Grit finish, rough cast, smooth cast, sand faced, pebble dash, acoustic plastering and plain plaster	1		Dt. 28.11. 2023
	Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing	1		Dt. 29.11. 2023
	Pointing – purpose –Types of pointing Painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – powder coating and spray painting on metal surfaces.	1		Dt. 29.11. 2023

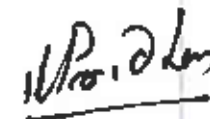
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	White washing – Colour washing – Distempering – internal and external walls	1	DEC	Dt. 01.12.2023
	Damp and Termite proofing – Materials and Methods.	1		Dt. 02.12.2023
	UNIT-7 :Green Buildings, Energy Management and Energy Audit Of Buildings & Project	4		
	Concept of green building	1		Dt. 03.12.2023, Dt. 04.12.2023
12	Introduction to Energy Management and Energy Audit of Buildings.	1		Dt. 05.12.2023, Dt. 06.12.2023
	Aims of energy management of buildings. Types of energy audit	1		Dt. 06.12.2023
	Response energy audit questionnaire Energy surveying and audit report.	1		Dt. 08.12.2023, Dt. 09.12.2023

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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 3RD SECTION : (C1 & C2)

**NAME OF THE FACULTY : (1) ER. SIDHANTA SEKHAR MAHAR
(LECT. IN CIVIL ENGG.)**

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT : ESTIMATION & COST EVALUATION-I (TH-4)

CLASS ALLOTTED / WEEK: 04 PERIODS

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT-1 : INTRODUCTION	2		
	Types of estimates – Plinth area, floor area / carpet area	1	AUGUST	Dt. 01.08.2023
	Units and modes of measurements as per IS 1200, Accuracy of measurement for different item of work	1		Dt. 02.08.2023
2	UNIT-2 : QUANTITY OF BUILDING ESTIMATE	30		
	Introduction to Building estimate methods	1		Dt. 03.08.2023
	Different types of Building Estimate methods	1		Dt. 07.08.2023
	Discussion on Long wall & Short wall method	1		Dt. 08.08.2023
	Calculation of length of long wall centre to centre & length of short wall centre to centre	1		Dt. 09.08.2023
	Discussion on Centre line method	1		Dt. 10.08.2023
	Deductions in masonry, plastering with examples	1		Dt. 14.08.2023, Dt. 16.08.2023
	Deductions in white washing, painting with examples	1		Dt. 17.08.2023
	Different types of Multiplying factors (paint coefficients) for painting of doors	1		Dt. 21.08.2023
	Multiplying factors (paint coefficients) for painting of windows	1		Dt. 22.08.2023
	Problems based on calculation of quantities of a wall & its detailed measurement	1		Dt. 23.08.2023

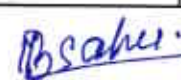
Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE	
	Estimate the quantities of brickwork required in a given wall dimensions	1		Dt. 24.08.2023	
	Estimate the quantities of brickwork & plastering required in a given wall dimensions using long wall & short wall method	1		Dt. 28.08.2023	
	Discussion on Abstract Estimate Cost	1		Dt. 29.08.2023	
	Detailed Estimate the quantities of a Single room Building (i) Earthwork in excavation in foundation (ii) Concrete in Foundation (using long wall & short wall method)	1		Dt. 31.08.2023	
	Detailed Estimate the quantities of a Single room Building (iii) Brickwork in Foundation & plinth (iv) Brickwork in Superstructure (using long wall & short wall method)	1	SEPTEMBER	Dt. 04.09.2023	
	Detailed Estimate of a Two roomed Building of quantities (i) Earthwork in excavation in foundation (ii) Concrete in Foundation (using long wall & short wall method)	1		Dt. 09.09.2023	
	Detailed Estimate of a Two roomed Building (iii) Brickwork in Foundation & plinth (iv) Brickwork in Superstructure (v) Damp proof Course with deductions (using long wall & short wall method)	1		Dt. 07.09.2023	
	Analysis of a Residential Building	1		Dt. 11.09.2023	
	Detailed Estimate of a Residential Building of quantities (i) Earthwork in excavation in foundation (ii) Concrete in Foundation (using long wall & short wall method)	1		Dt. 12.09.2023	
	Detailed Estimate of a Residential Building of quantities (iii) Brickwork in Foundation & plinth (iv) Brickwork in Superstructure (v) Damp proof Course with deductions (using long wall & short wall method)	1		Dt. 13.09.2023	


Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE	
	Detailed Estimate the quantities of a Single room Building (i) Earthwork in excavation in foundation (ii) Concrete in Foundation (using Centre line method)	1		Dt. 14.09.2023	
	Detailed Estimate the quantities of a Single room Building (iii) Brickwork in Foundation & plinth (iv) Brickwork in Superstructure (using Centre line method)	1		Dt. 18.09.2023	
	Detailed Estimate of a Two roomed Building of quantities (i) Earthwork in excavation in foundation (ii) Concrete in Foundation (using Centre method)	1		Dt. 21.09.2023	
	Detailed Estimate the quantities of a Two roomed Building (iii) Brickwork in Foundation & plinth (iv) Brickwork in Superstructure (using Centre line method)	1		Dt. 25.09.2023	
	Detailed Estimate of a Residential Building of quantities (i) Earthwork in excavation in foundation (ii) Concrete in Foundation (using Centre line method)	1		Dt. 26.09.2023, Dt. 27.09.2023	
	Detailed Estimate of a Residential Building of quantities (iii) Brickwork in Foundation & plinth (iv) Brickwork in Superstructure (v) Damp proof Course with deductions (using centre line method)	1		Dt. 28.09.2023	
	Detailed estimate of single storied flat roof building with shallow foundation	1	OCTOBER	Dt. 03.10.2023, Dt. 04.10.2023	
	Detailed estimate of single storied flat roof building with shallow foundation	1		Dt. 05.10.2023, Dt. 09.10.2023	
	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.	1		Dt. 10.10.2023	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE	
	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.	1		Dt. 11.10.2023	
	Revision	1		Dt. 12.10.2023	
3	UNIT-3: ANALYSIS OF RATES AND EVALUATION	22			
	Introduction to analysis of rates and valuation	1		Dt. 16.10.2023	
	Analysis of rates for cement concrete, brick masonry in Cement Mortar	1		Dt. 17.10.2023	
	Analysis of rates for laterite stone masonry in Cement Mortar, cement plaster	1		Dt. 18.10.2023	
	Analysis of rates for white washing, Artificial Stone flooring	1		Dt. 19.10.2023	
	Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering	1		Dt. 30.10.2023	
	Analysis of rates for reinforcing steel, Painting of doors and windows etc. as per OPWD.	1		Dt. 31.10.2023	
	Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system	1	NOVEMBER	Dt. 01.11.2023	
	Discussion on Abstract of cost of estimate.	1		Dt. 02.11.2023	
	Introduction to Valuation, Value and cost	1		Dt. 06.11.2023	
	Discussion on scrap value, salvage value	1		Dt. 07.11.2023	
	Discussion on assessed value, sinking fund	1		Dt. 08.11.2023	
	Problems discussion regarding Sinking fund	1		Dt. 09.11.2023	
	Discussion on depreciation and obsolesce	1		Dt. 13.11.2023	
	Problems based on depreciation	1		Dt. 14.11.2023	

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Discussion on various methods of calculation depreciation.(i) straight line method	1		Dt. 15.11.2023 , Dt. 16.11.2023
	(ii) Constant percentage method (iii) Sinking fund method	1		Dt. 20.11.2023, Dt. 21.11.2023
	(iv) Quantity survey methods with problems.	1		Dt. 22.11.2023
	Problems discussion on different methods of depreciation.	1		Dt. 23.11.2023
	Discussion on various methods of valuation of	1		Dt. 28.11.2023
	Problems based on valuation	1		Dt. 29.11.2023
	Revision	1		Dt. 30.11.2023
	Class Test - I	1		Dt. 30.11.2023
4	UNIT-4 : ADMINISTRATIVE SET-UP OF ENGINEERING ORGANISATIONS	6		
	Introduction to Administrative Set-Up of Engineering Organisations	1	DECEMBER	Dt. 04.12.2023
	Hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors	1		Dt. 04.12.2023
	Duties and responsibilities of Engineers at different positions /levels	1		Dt. 05.12.2023
	Duties and responsibilities of Engineers at different positions /levels	1		Dt. 06.12.2023
	Revision	1		Dt. 06.12.2023
	Class Test - II	1		Dt. 07.12.2023


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THEORY LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH : CIVIL ENGG. SEMESTER : 3RD SECTION : (C1 & C2)

**NAME OF THE FACULTY : (1) ER. SUMANTA KUMAR SAHOO
(LECT. IN CIVIL ENGG.)**

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

THEORY SUBJECT : ENVIRONMENTAL STUDIES (TH-5)

CLASS ALLOTTED / WEEK: 05 PERIODS

SL No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
1	UNIT 1: THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES	4		
	Definition	1	AUGUST	Dt. 01.08.2023
	Scope of Environment	1		Dt. 02.08.2023
	Importance of Environment	1		Dt. 03.08.2023
	Need for public awareness	1		Dt. 04.08.2023
2	UNIT 2 : NATURAL RESOURCES	10		
	Renewable and non renewable resources	1		Dt. 08.08.2023
	Natural resources and associated problems	1		Dt. 09.08.2023
	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	1		Dt. 10.08.2023
	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems	1		Dt. 11.08.2023
	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	1		Dt. 16.08.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.	1		Dt. 17.08. 2023 Dt. 18.08. 2023
	Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.	1		Dt. 22.08.2023
	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.	1		Dt. 23.08.2023
	Role of individual in conservation of natural resources.	1		Dt. 24.08.2023
	Equitable use of resources for sustainable life styles.	1		Dt. 25.08. 2023
	Revision			
	UNIT 3 : SYSTEMS	8		
	Concept of an eco system, Structure and function of an eco system	1		Dt. 29.08. 2023
	Producers, consumers, decomposers	1		Dt. 31. 08. 2023
3	Energy flow in the eco systems	1	SEPTEMBER	Dt. 01.09. 2023
	Ecological succession	1		Dt. 05.09. 2023
	Food chains, food webs and ecological pyramids	1		Dt. 07.09. 2023
	Introduction, types, characteristic features	1		Dt. 08-09. 2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	structure and function of the Forest ecosystem	1		Dt. 12.09.2023
	structure and function of the Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).	1		Dt. 13.09.2023, Dt. 14.09.2023
	UNIT 4 : BIODIVERSITY AND ITS CONSERVATION	8		
	Introduction-Definition: genetics, species and ecosystem diversity	1		Dt. 15.09.2023
	Biogeographically classification of India	1		Dt. 21.09.2023
	Value of biodiversity: consumptive use	1		Dt. 22.09.2023
4	Productive use, social, ethical, aesthetic and oplinvalues	1		Dt. 26.09.2023
	Biodiversity at global, national and local level	1		Dt. 27.09.2023
	Threats to biodiversity: Habitats loss, poaching of wild life	1		Dt. 28.09.2023
	Man wildlife conflicts	1	OCTOBER	Dt. 03.10.2023
	Class test	1		Dt. 04.10.2023
	UNIT 5 : ENVIRONMENTAL POLLUATION	12		
	Definition Causes, effects and control measures of: Air pollution	1		Dt. 05.10.2023
5	Water pollution	1		Dt. 06.10.2023
	Soil pollution	1		Dt. 10.10.2023
	Marine pollution	1		Dt. 11.10.2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Noise pollution	1		Dt. 12-10-2023 , Dt. 13-10-2023
	Thermal pollution	1		Dt. 17-10-2023, Dt. 18-10-2023
	Nuclear hazards	1		Dt. 19-10-2023, Dt. 20-10-2023
	Solid waste Management	1		Dt. 31-10-2023
	Causes, effects and control measures of urban and industrial wastes.	1	NOVEMBER	Dt. 01-11-2023
	Role of an individual in prevention of pollution	1		Dt. 02-11-2023
	Disaster management: Floods, earth quake	01		Dt. 03-11-2023
	Cyclone and landslides.	1		Dt. 07-11-2023
6	UNIT 6 : SOCIAL ISSUES AND THE ENVIRONMENT	10		
	Form unsustainable to sustainable development	1		Dt. 08-11-2023
	Urban problems related to energy	1		Dt. 09-11-2023
	Water conservation, rain water harvesting, water shed management	1		Dt. 10-11-2023
	Resettlement and rehabilitation of people; its problems and concern.	1		Dt. 14-11-2023
	Environmental ethics: issue and possible solutions.	1		Dt. 15-11-2023
	Climate change, global warming, acid rain, ozone layer depletion	1		Dt. 16-11-2023

Sl. No.	CHAPTERS TO BE COVERED	NO OF PERIODS AS PER ACADEMIC CALENDAR	MONTH	ACTUAL PROGRESS OF THE COURSES MADE
	Nuclear accidents and holocaust, case studies	1		Dt. 17.11.2023
	Air (prevention and control of pollution) Act.	1		Dt. 21.11.2023
	Water (prevention and control of pollution) Act.	1		Dt. 22.11.2023
	Public awareness.	1		Dt. 23.11.2023
7	UNIT 7 : HUMAN POPULATION AND THE ENVIRONMENT	8		
	Population growth and variation among nations	1		Dt. 24.11.2023
	Population explosion- family welfare program	1		Dt. 28.11.2023
	Environment and human health	1		Dt. 29.11.2023
	Human rights	1		Dt. 30.11.2023
	Value education	1	DECEMBER	Dt. 05.12.2023
	Role of information technology in environment and human health	1		Dt. 06.12.2023
	Revision	1		Dt. 07.12.2023
	Class test	1		Dt. 08.12.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:- CIVIL ENGG.

SEMESTER: 3RD

SECTION:- C1

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D. IN CIVIL ENGG.) (2) ER. SWARNAPRAVA PARIDA, (3) ER. SIBANI SAHU (LECT. IN CIVIL ENGG.) (4) ER. IPSITA NAYAK (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: CIVIL ENGINEERING LAB.-I (PR-1)

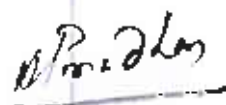
CLASS ALLOTTED /WEEK:- 6 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
(i)	MATERIAL TESTING LABORATORY			
1	Determination of young's modulus of steel in a tensile testing machine.	AUGUST	01	Dt. 02.08.2023
2	Determination of fineness of cement by sieving.		01	Dt. 03.08.2023
3	Determination of normal consistency, initial and final setting time of cement.		02	Dt. 09.08.2023 & Dt. 10.08.2023
4	Determination of soundness of cement by Le-chatelier apparatus.		01	Dt. 16.08.2023
5	Determination of compressive strength of cement.		02	Dt. 17.08.2023 & Dt. 23.08.2023
6	Determination of compressive strength of burnt clay, fly ash bricks and blocks.	SEPTEMBER	02	Dt. 24.08.2023 & Dt. 07.09.2023
7	Grading of fine & coarse aggregate by sieving for concrete.		01	Dt. 13.09.2023
8	Determination of specific gravity and bulking of sand.		02	Dt. 14.09.2023 & Dt. 21.09.2023
9	Determination of specific gravity and bulk density of coarse aggregate.		02	Dt. 27.09.2023 & Dt. 28.09.2023
10	Grading of road aggregates.	OCTOBER	01	Dt. 04.10.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
11	Determination of flakiness, elongation of road aggregates.		02	Dt. 05.10.2023 & Dt. 11.10.2023
12	Determination of crushing value test of aggregates.		01	Dt. 12.10.2023
13	Los -Angeles abrasion test of aggregate.		02	Dt. 18.10.2023 & Dt. 19.10.2023
14	Impact test of aggregate.	NOVEMBER	02	Dt. 01.11.2023 & Dt. 02.11.2023
15	Determination of soundness test of road aggregates.		02	Dt. 08.11.2023 & Dt. 09.11.2023
(II)	CONCRETE LABORATORY			
16	Determination of compressive strength of concrete cubes		02	Dt. 15.11.2023 & Dt. 16.11.2023
17	Determination of workability of concrete by: (a) Slump cone method (b) Compaction factor method.		03	Dt. 22.11.2023, Dt. 23.11.2023 & Dt. 29.11.2023
18	Non destructive tests on concrete. (a) Demonstration on rebound hammer. (b) Ultrasonic pulse velocity measuring instrument.	DECEMBER	03	Dt. 30.11.2023, Dt. 06.12.2023, & Dt. 07.12.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:- CIVIL ENGG.

SEMESTER: 3RD

SECTION:- C1

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SUMANTA KUMAR SAHOO (LECT. IN CIVIL ENGG.), (3) ER. IPSITA NAYAK, (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: CIVIL ENGINEERING DRAWING-1 (PR-2)

CLASS ALLOTTED /WEEK:- 5 PERIODS


Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	AUTOCAD SOFTWARE			
	1.1.Recap of the draw ,format,edit, dimension,modify commands.	AUGUST	02	Dt. 04.08.2023 & Dt. 07.08.2023
	1.2.Draw 2D drawings of the following building components,doors, windows,cross section through wall spread footing,column footing,slair case,R.C.C . T-beam and slab.		03	Dt. 11.08.2023, Dt. 14.08.2023 & Dt. 18.08.2023
	1.3-Develop Isometric drawings of simple objects.		02	Dt. 21.08.2023 & Dt. 25.08.2023
	1.4.Develope 3D drawing of simple objects.	SEPTEMBER	02	Dt. 28.08.2023 & Dt. 01.09.2023
2	PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING FROM LINE DIAGRAM AND GIVEN SPECIFICATION WITH USE OF AUTOCAD SOFTWARE.			
	2.1.Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views from given line diagram and specification.		03	Dt. 04.09.2023, Dt. 08.09.2023 & Dt. 11.09.2023
	2.2.Detail drawing of double storeyed pucca building with R.C.C stair case from line diagram and given specification.		03	Dt. 15.09.2023, Dt. 18.09.2023 & Dt. 22.09.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	2.3.Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan,index plan etc.	OCTOBER	03	Dt. 25.09.2023, Dt. 06.10.2023 & Dt. 09.10.2023
3	PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING WITH AC SHEET/GC/TILES ON WOODEN STRUCTURE WITH USE OF AUTOCAD COMMANDS. Detail drawing of inlined roof building from given line diagram and specification (gabled/hipped).	NOVEMBER	05	Dt. 13.10.2023, Dt. 16.10.2023, Dt. 20.10.2023, Dt. 03.11.2023, & Dt. 06.11.2023
4	BUILDING PLANNING:			
	4.1.Planning of building for specific cost based on approximate plinth area rate.		02	Dt. 10.11.2023 & Dt. 13.11.2023
	4.2.Orientation of buildings,location of openings and living areas.		02	Dt. 17.11.2023 & Dt. 20.11.2023
	4.3.Line plan of school ,hostel ,market complex and dispensary building.	DECEMBER	04	Dt. 24.11.2023, Dt. 01.12.2023, Dt. 04.12.2023 & Dt. 08.12.2023




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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH:- CIVIL ENGG.		SEMESTER: 3RD		SECTION:- C1
NAME OF THE FACULTY : (1) ER. SIDHANTA SEKHAR MAHAR, (2) ER. SUMANTA KUMAR SAHOO (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023			PRACTICAL SUBJECT: ESTIMATION PRACTICE - I (PR-3)	
CLASS ALLOTTED /WEEK :- 03 PERIODS				
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	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.	AUGUST	03	Dt. 01.08.2023, Dt. 08.08.2023 & Dt. 22.08.2023
	1.2.A two storeyed pucca building with specification as per orissa P.W.D schedule of rates and analysis of rates.	SEPTEMBER	03	Dt. 29.08.2023, Dt. 05.09.2023 & Dt. 12.09.2023
2	Analysis of rates in detail for the above items of building basing on orissa Govt. analysis of rate with help of MS. Excel software.	OCTOBER	03	Dt. 26.09.2023, Dt. 03.10.2023 & Dt. 10.10.2023
3	Calculation of dry materials for different items of works basing on orissa Govt. analysis of rate with help of Excel software.	NOVEMBER	03	Dt. 17.10.2023, Dt. 31.10.2023 & Dt. 07.11.2023
4	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.		03	Dt. 14.11.2023, Dt. 21.11.2023 & Dt. 28.11.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH:- CIVIL ENGG.		SEMESTER: 3RD		SECTION:- C1
NAME OF THE FACULTY : (1) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023			PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES	
CLASS ALLOTTED /WEEK :- 03 PERIODS				
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Library Study & Technical Quiz	AUGUST	04	Dt. 05.08.2023, Dt. 12.08.2023, Dt. 19.08.2023 & Dt. 26.08.2023
02	Seminar on different Technical Topics	SEPTEMBER	04	Dt. 02.09.2023, Dt. 09.09.2023, Dt. 16.09.2023 & Dt. 23.09.2023
03	Seminar on different Environment issues	OCTOBER	03	Dt. 30.09.2023, Dt. 07.10.2023 & Dt. 14.10.2023
04	Personality development Class	NOVEMBER	03	Dt. 04.11.2023, Dt. 11.11.2023 & Dt. 18.11.2023
05	Cultural Activities	DECEMBER	03	Dt. 25.11.2023, Dt. 02.12.2023 & Dt. 09.12.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:- CIVIL ENGG.

SEMESTER: 3RD

SECTION:- C2

NAME OF THE FACULTY : (1) ER. BABITA SAHU (H.O.D. IN CIVIL ENGG.) (2) ER. SWARNAPRAVA PARIDA, (3) ER. SIBANI SAHU (LECT. IN CIVIL ENGG.) (4) ER. IFSTIA NAYAK (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: CIVIL ENGINEERING LAB.-I (PR-1)


CLASS ALLOTTED /WEEK:- 6 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
(I)	MATERIAL TESTING LABORATORY			
1	Determination of young's modulus of steel in a tensile testing machine.	AUGUST	01	Dt. 04.08.2023
2	Determination of fineness of cement by sieving.		01	Dt. 07.08.2023
3	Determination of normal consistency, initial and final setting time of cement.		02	Dt. 11.08.2023 & Dt. 14.08.2023
4	Determination of soundness of cement by Le-chatelier apparatus.		01	Dt. 18.08.2023
5	Determination of compressive strength of cement.		02	Dt. 21.08.2023 & Dt. 25.08.2023
6	Determination of compressive strength of burnt clay, fly ash bricks and blocks.	SEPTEMBER	02	Dt. 28.08.2023 & Dt. 01.09.2023
7	Grading of fine & coarse aggregate by sieving for concrete.		01	Dt. 04.09.2023
8	Determination of specific gravity and bulking of sand.		02	Dt. 08.09.2023 & Dt. 11.09.2023
9	Determination of specific gravity and bulk density of coarse aggregate.		02	Dt. 15.09.2023 & Dt. 18.09.2023
10	Grading of road aggregates.		01	Dt. 22.09.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
11	Determination of flakiness, elongation of road aggregates.	OCTOBER	02	Dt. 25.09.2023 & Dt. 06.10.2023
12	Determination of crushing value test of aggregates.		01	Dt. 09.10.2023
13	Los - Angeles abrasion test of aggregate.		02	Dt. 13.10.2023 & Dt. 16.10.2023
14	Impact test of aggregate.	NOVEMBER	02	Dt. 20.10.2023 & Dt. 03.11.2023
15	Determination of soundness test of road aggregates.		02	Dt. 06.11.2023 & Dt. 10.11.2023
(II)	CONCRETE LABORATORY			
16	Determination of compressive strength of concrete cubes		02	Dt. 13.11.2023 & Dt. 17.11.2023
17	Determination of workability of concrete by: (a) Slump cone method (b) Compaction factor method.	DECEMBER	03	Dt. 20.11.2023, Dt. 24.11.2023 & Dt. 01.12.2023
18	Non destructive tests on concrete. (a) Demonstration on rebound hammer. (b) Ultrasonic pulse velocity measuring instrument.		02	Dt. 04.12.2023 & Dt. 08.12.2023


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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:- CIVIL ENGG.

SEMESTER: 3RD

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SUNIL KUMAR SAHU, (2) ER. SUMANTA KUMAR SAHOO (LECT. IN CIVIL ENGG.), (3) ER. IPSITA NAYAK, (T.A., CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: CIVIL ENGINEERING DRAWING-1 (PR-2)

CLASS ALLOTTED /WEEK:- 5 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
1	AUTOCAD SOFTWARE			
	1.1.Recap of the draw ,format,edit, dimension,modify commands.	AUGUST	02	Dt. 02.08.2023 & Dt. 03.08.2023
	1.2.Draw 2D drawings of the following building components,doors,windows,cross section through wall ,spread footing,column footing,stair case,R.C.C . T-beam and slab.		03	Dt. 09.08.2023, Dt. 10.08.2023 & Dt. 16.08.2023
	1.3-Develop Isometric drawings of simple objects.		02	Dt. 17.08.2023 & Dt. 23.08.2023
	1.4.Develope 3D drawing of simple objects.		02	Dt. 24.08.2023 & Dt. 31.08.2023
2	PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING FROM LINE DIAGRAM AND GIVEN SPECIFICATION WITH USE OF AUTOCAD SOFTWARE.			
	2.1.Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views from given line diagram and specification.	SEPTEMBER	03	Dt. 07.09.2023, Dt. 13.09.2023 & Dt. 14.09.2023
	2.2.Detail drawing of double storeyed pucca building with R.C.C stair case from line diagram and given specification.		03	Dt. 21.09.2023, Dt. 27.09.2023 & Dt. 28.09.2023

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	2.3.Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan,index plan etc.	OCTOBER	03	Dt.04.10.2023, Dt.05.10.2023 & Dt.11.10.2023
3	PLAN,ELEVATION AND SECTIONAL ELEVATION OF FLAT ROOF BUILDING WITH AC SHEET/GC/TILES ON WOODEN STRUCTURE WITH USE OF AUTOCAD COMMANDS. Detail drawing of Inlined roof building from given line diagram and specification (gabled/hipped).	NOVEMBER	05	Dt.12.10.2023, Dt.18.10.2023, Dt.19.10.2023, Dt.01.11.2023 & Dt.02.11.2023
4	BUILDING PLANNING:			
	4.1.Planning of building for specific cost based on approximate plinth area rate.		02	Dt.08.11.2023 & Dt.09.11.2023
	4.2.Orientation of buildings,location of openings and living areas.		03	Dt.15.11.2023, Dt.16.11.2023 & Dt.22.11.2023
	4.3.Line plan of school ,hostel ,market complex and dispensary building.	DECEMBER	05	Dt.23.11.2023, Dt.29.11.2023, Dt.30.11.2023, Dt.06.12.2023 & 07.12.2023

Sunil Kumar T. Jayak S. Sahu
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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24

BRANCH:- CIVIL ENGG.

SEMESTER: 3RD

SECTION:- C2

NAME OF THE FACULTY : (1) ER. SIDHANTA SEKHAR MAHAR, (2) ER. SUMANTA KUMAR SAHOO (LECT. IN CIVIL ENGG.)

SEMESTER FROM DT. 01.08.2023 TO 09.12.2023

PRACTICAL SUBJECT: ESTIMATION PRACTICE - I (PR-3)

CLASS ALLOTTED /WEEK :- 03 PERIODS

Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOB TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
	Preparation of plinth area estimate & detailed estimate for the following ;			
1	1.1.Single storeyed two roomed building with specification as per orissa P.W.D schedule of rates and analysis of rates.	AUGUST	03	Dt. 01.08.2023, Dt. 08.08.2023 & Dt. 22.08.2023
	1.2.A two storeyed pucca building with specification as per orissa P.W.D schedule of rates and analysis of rates.	SEPTEMBER	03	Dt. 29.08.2023, Dt. 05.09.2023 & Dt. 12.09.2023
2	Analysis of rates in detail for the above items of building basing on orissa Govt. analysis of rate with help of MS. Excel software.	OCTOBER	03	Dt. 26.09.2023, Dt. 03.10.2023 & Dt. 10.10.2023
3	Calculation of dry materials for different items of works basing on orissa Govt. analysis of rate with help of Excel software.	NOVEMBER	03	Dt. 17.10.2023, Dt. 31.10.2023 & Dt. 07.11.2023
4	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.	DECEMBER	04	Dt. 14.11.2023, Dt. 21.11.2023, Dt. 28.11.2023 & Dt. 05.12.2023

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PRACTICAL LESSON PLAN FOR THE SESSION 2023 - 24				
BRANCH:- CIVIL ENGG.		SEMESTER: 3RD		SECTION:- C2
NAME OF THE FACULTY : (1) ER. PRITAM SAGAR SAHOO (LECT. IN CIVIL ENGG.)				
SEMESTER FROM DT. 01.08.2023 TO 09.12.2023			PRACTICAL SUBJECT: STUDENT CENTRED ACTIVITIES	
CLASS ALLOTTED /WEEK :- 03 PERIODS				
Sl. No.	NAME OF THE PRACTICAL EXPERIMENT/JOBS TO BE COVERED	MONTH	AS PER ACADEMIC CALENDAR & TIME TABLE CLASS DAYS	ACTUAL PROGRESS OF THE COURSES MADE DATES
01	Library Study & Technical Quiz	AUGUST	04	Dt.05.08.2023, Dt.12.08.2023, Dt.19.08.2023 & Dt.26.08.2023
02	Seminar on different Technical Topics	SEPTEMBER	04	Dt.02.09.2023, Dt.09.09.2023, Dt.16.09.2023 & Dt.23.09.2023
03	Seminar on different Environment Issues	OCTOBER	03	Dt.30.09.2023, Dt.07.10.2023, & Dt.14.10.2023
04	Personality development class	NOVEMBER	03	Dt.04.11.2023, Dt.11.11.2023 & Dt.18.11.2023
05	Cultural Activities	DECEMBER	03	Dt.25.11.2023, Dt.02.12.2023 & Dt.09.12.2023

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