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Discipline: Civil	Semestar- 3rd	Name Of the teaching Faculty:		
Engneering Subject-Structural	No. of Days/per week class	Smt. Laxmipriya Mohapatra Semestar From Date: 1/08/2023 To Date: 30/11/2023		
Mechanics	alloted:5	No. Of Weeks: 16		
Week	Day	Theory Topics to be covered		
		1. Review of basic concepts		
1.0+	1.0+	Pacis Principle of Machanics: Force Mamont support conditions		
1st	1st	Basic Principle of Mechanics: Force, Moment, support conditions Conditions of equilibrium, C.G & MI, Review of C.G. and M.I of		
	2 m d	different sections		
	2nd			
		Free body diagram and Review of C.G. and M.I of different		
	3rd	sections		
	4th	Numerical problems on C.G. And M.I.		
	2. 51	mple and complex stress, strain		
		listing directions to observe and observe Machanical management of		
	F+1-	Introduction to stresses and strains Mechanical properties of		
	5th	materials – Rigidity, Elasticity, Plasticity, Compressibility, Hardness		
		Mechanical properties of materials –		
2 d	4 - 4	Toughness, Stiffness, Brittleness, Ductility,		
2nd	1st	Malleability, Creep, Fatigue, Tenacity, Durability		
	2nd	Types of stresses -Tensile, Compressive and Shear		
	3rd	Types of strains - Tensile, Compressive and Shear strains,		
		Complimentary shear stress-Diagonal tensile/compressive		
	4th	stresses due to shear ,Elongation and Contraction		
		Longitudinal and Lateral strains, Poissons Ratio, Volumetric Strain,		
	5th	Poissons Ratio, Change in dimensions and volume, numericals		
		Hooke's law, Elastic Constants, Derivation of relationship between		
3rd	1st	the elastic constants		
	2nd	Behaviour of ductile and brittle materials under direct loads		
		Stress Strain curve of a ductile material, Limit of proportionality,		
	3rd	Elastic limit, Yield stress, Ultimate stress, Breaking stress		
		Percentage elongation, Percentage reduction in area, Significance		
	4th	of percentage elongation and reduction in area of cross section		
	5th	Deformation of prismatic bars due to uniaxial load		
4th	1st	Deformation of prismatic bars due to its self weight		
		Principal stresses and strains: Occurrence of normal and		
	2nd	tangential stresses		
		Concept of Principal stress and Principal Planes, major and minor		
	3rd	principal stresses and their orientations		
		Mohr's Circle and its application to solve problems of complex		
	4th	stresses		
		3.Stresses in Beams		

		Danding stress in hooms. Theory of simple handing. Assumptions
	F#h	Bending stress in beams, Theory of simple bending, Assumptions,
	5th	Moment of resistance
		Equation for Flexure, Flexural stress distribution, Curvature of
5th	1st	beam, Position of N.A. and Centroidal Axis,
	2nd	Flexural rigidity, Significance of Section modulus
	3rd	Shear stress distribution in beams concept
		Shear stress distribution in beams of rectangular, circular and
	4th	standard sections symmetrical about vertical axis
		Concept of torsion, basic assumptions of pure torsion, torsion of
	5th	solid and hollow circular sections,
		polar moment of inertia, torsional shearing stresses, angle of
6th	1st	twist, torsional rigidity, equation of torsion
	2nd	Combination of stresses, Combined direct and bending stresses,
		Maximum and Minimum stresses in Sections, Conditions for no
	3rd	tension,
		Limit of eccentricity, Middle third/fourth rule, Core or Kern for
		square, rectangular and circular sections, chimneys, dams
	4th	retaining walls
		4.Columns and Struts
		Columns and Struts, Definition, Short and Long columns, End
	5th	conditions, Equivalent length / Effective length, Slenderness ratio
		Axially loaded short and long column, Euler's theory of long
7th	1st	columns, Critical load for Columns with different end conditions
	2nd	Numerical problems on columns & struts.
	3rd	Numerical problems on columns & struts.
	•	5. Shear Force and Bending Moment
		Types of Loads: Concentrated (or) Point load, Uniformly
		Distributed load (UDL), Types of Supports: Simple support, Roller
	4th	support, Hinged support, Fixed support
		Types of Reactions: Vertical reaction, Horizontal reaction,
	5th	Moment reaction, Types of Beams based on support conditions
		Calculation of support reactions using equations of static
8th	1st	equilibrium
		Shear Force and Bending Moment: Signs Convention for S.F. and
	2nd	B.M,
	2110	S.F and B.M of general cases of determinate beams with
	3rd	concentrated loads and udl only,
	4th	S.F and B.M diagrams for Cantilevers
	5th	S.F and B.M diagrams for Simply Supported Beams
9th	1st	S.F. and B.M. diagram for Overhanging Beams
J.(1)	131	Position of maximum BM, Point of contra flexure, Point of
	254	Inflection
	2nd	
	3rd	Relation between intensity of load, S.F and B.M.
	4th	Numerical problems on S.F. & B.M.
	5th	Numerical problems on S.F. & B.M.
		6. Slope and Deflection

		Shape and nature of elastic curve (deflection curve); Relationship
		between slope, deflection and curvature, Importance of slope
10th	1st	and deflection
10(11	130	Slope and deflection of cantilever under concentrated load (by
	2nd	Double Integration method)
	2110	Slope and deflection of cantilever under uniformly distributed
	3rd	load(by Double Integration method)
	314	Slope and deflection of cantilever under concentrated load (by
	4th	Macaulay's method)
	701	Slope and deflection of cantilever under uniformly distributed
	5th	load (by Macaulay's method)
	1st	Numerical problems on cantilever beam.
	130	Numerical problems on cartellever beam.
		Slope and deflection of simply supported beams under
		concentrated and uniformly distributed load (by Double
11th	2nd	Integration method)
	2110	Slope and deflection of simply supported beams under
		concentrated and uniformly distributed load (by Macaulay's
	3rd	method)
	314	Numerical problems on simply supported beam using Double
	4th	integration method.
	401	integration method.
		Numerical problems on simply supported beam using Macaulay's
	5th	method.
		7. Indeterminate Beams
12th	1st	Indeterminacy, principle of consistent deformation
	2nd	Analysis of propped cantileverbeams by principle of superpositio
		Analysis of fixed and two span continuous beams by principle of
	3rd	superposition
	4th	SF and BM diagrams (point load and udl covering full span)
	5th	Types of trusses, statically determinate and indeterminate trusse
13th	1st	degree of indeterminancy
	2nd	Analysis of propped cantileverbeams by principle of superpositio
		Analysis of fixed and two span continuous beams by principle of
	3rd	superposition
	4th	SF and BM diagrams (point load and udl covering full span)
	5th	Numerical problems.
		8. Trusses
14th	1st	Types of trusses, statically determinate
	2nd	Statically indeterminate trusses
	3rd	degree of indeterminancy
	4th	Numerical problems on degree of indeterminancy
	5th	stable and unstable trusses,
15th	1st	advantages of trusses

	2nd	Analytical method (Method of joints)
	3rd	Analytical method (Method of Section)
	4th	Method of Joints Numericals.
	5th	Method of Section Numericals.
16th	1st	Discussions & doubt clearing.
	2nd	Revision of chapter-1 & 2
	3rd	Revision of chapter-3 & 4
	4th	Revision of chapter-5 & 6
	5th	Revision of chapter-7 & 8

Laxmipriya Mohapatra

Signature of Faculty

Discipline-Civil Engneering Semestar- 3rd		Name Of the teaching Faculty: Er.Rakesh Kumar Panda
Subject-Geotechnical	No. of Days/per week class	Semestar From Date : 1/08/2023 To Date: 30/11/2023
Engineering	alloted:4	No. Of Weeks: 16
Week	Class Day	Theory/Practical Topics
	1st	Chapter- 1 Introduction
	15t	Soil and Soil Engineering
	2nd	Scope of Soil Mechanics
1st	3rd	Origin and formation of soil
	4th	Chapter-2 Preliminary Definitions and Relationship Soil as a three Phase system
	1st	Water Content, Density, Specific gravity, Voids ratio, Porosity, Percentage of air voids, air content
2nd	2nd	Degree of saturation, density Index
	3rd	Bulk/Saturated/dry/submerged density
	4th	Interrelationship of various soil parameters
	4.	Chapter- 3 Index Properties of Soil
	1st	Water Content, Specific Gravity
	24	Particle size distribution: Sieve analysis, wet mechanical
	2nd	analysis
3rd		Particle
	3rd	size distribution curve and its uses
		Consistency of Soils
	4th	Atterberg's Limits, Plasticity Index, Consistency Index,
	401	Liquidity Index
	1st	Atterberg's Limits, Plasticity Index, Consistency Index,
		Liquidity Index
	2nd	Chapter -4 Classification of Soil
4th		I.S. Classification
	3rd	I.S. Classification(classification Of Coarse grained Soil)
	4th	I.S. Classification(Numericals on IS classification)
	1st	I.S. Classification(Misclleneous)
	2nd	Plasticity Chart
5th	3rd	Chapter- 5 Permeability and Seepage
		Concept of Permeability, Darcy's Law
	4th	Co-efficient of Permeability
	1st	Factors affecting Permeability
6th	2nd	Constant head permeability test
	3rd	Falling head permeability test
	4th	Compaction: Compaction
	1st 2nd	Seepage pressure Effective stress
	3rd	Phenomenon of quick sand
7th	Jiu	Chapter- 6 Compaction and Consolidation
	4th	Compaction: Compaction, Light and heavy compaction
		Test
	1st	Optimum Moisture
	2nd	Content of Soil, Maximum dry density
8th	3rd	Zero air void line
	4th	Zero air void line

	1st	Factors affecting Compaction
	2nd	Field compaction methods and their suitability
9th	3rd	Field compaction methods and their suitability
		Consolidation: Consolidation, distinction between
	4th	compaction and consolidation
	1st	Terzaghi's model analogy of compression
	2nd	Terzaghi's model analogy of compression
40.1		Springs showing the process of consolidation – field
10th	3rd	implications
		Springs showing the process of consolidation – field
	4th	implications
	1.	Chapter-7 Shear Strength
	1st	Concept of shear strength
11th	2nd	Concept of shear strength
	3rd	Mohr- Coulomb failure theory
	4th	Cohesion, Angle of internal friction,
	1st	Cohesion, Angle of internal friction,
4214	2nd	strength envelope for different type of soil,
12th	3rd	Measurement of shear strength- Direct shear test
	4th	Triaxial shear test
	1st	Unconfined compression test and vane-shear test
	2nd	Chapter- 8 Earth Pressure on Retaining Structures
13th		Active earth pressure
	3rd	Passive earth pressure
	4th	Earth pressure at rest
		Use of Rankine's formula for the following cases (cohesion-
	1st	less soil only)
		Backfill with no surcharge
	2nd	Backfill with uniform surcharge
14th		Chapter- 9 Foundation Engineering
	3rd	Functions of foundations, shallow and deep foundation
		runctions of foundations, shallow and deep foundation
	4th	Different type of shallow and deep foundations with
	4111	sketches
	1st	Types of failure (General shear, Local shear & punching
	151	shear)
15th	2nd	Bearing capacity of soil
	3rd	bearing capacity of soils using Terzaghi's formulae
	4th	IS Code formulae for strip
	1st	Circular and square footings
16th	2nd	Effect water table on bearing capacity of soil
10(11	3rd	Effect water table on bearing capacity of soil
	4th	Plate load test and standard penetration test

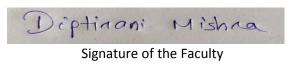


Signature of The Faculty

Discipline-Civil Engineering	Semester-3rd	Name of the teaching faculty:- Er. Diptirani Mishra
Subject:- Building		Semester From Date:01/08/2023 to 30/11/2023
Material &	No. of days /per week	
Construction	class alloted:-5	No. of weeks-16
Technology		
Week	Class Day	Theory/Practical Topics
		BUILDING MATERIALS
1st	1st	CHAPTER-1(STONE):-Classification of rock
	2nd	Uses of stone, natural bed of stone
	3rd	Qualities of good building stone
	4th	Dressing of stone
	5th	Characteristics of different types of stone and their uses
2nd	1st	CHAPTER-2(BRICKS):- Brick earth – its composition
	2nd	Brick making – Preparation of brick earth, Moulding, Drying
	3rd	Burning in kilns (continuous Process)
	4th	Classification of bricks, size of traditional and modular bricks
	5th	Qualities of good building bricks
3rd	1st	CHAPTER-3:-(CEMENT, MORTAR AND CONCRETE)Cement:
Siu	150	Types of cements
	2nd	Manufacturing of cement
	3rd	Properties of cements
	4th	Importance and application of blended cement with fly ash and blast furnace slag.
	5th	Mortar: Definition and types of mortar
4th	1st	Sources and classification of sand, Bulking of sand
		Use of gravel, morrum and fly ash as different building
	2nd	material
	3rd	Concrete: Definition and composition- Water cement ratio-
	4th	Mixing, placing, compacting and curing of concrete
	Г+h	CHAPTER-4:-(OTHER CONSTRUCTION MATERIALS)
	5th	Classification of timber
5th	1st	Structure of timber
	2nd	Seasoning of timber – Importance
	3rd	Characteristics of good timber
	4th	Clay products and refractory materials – Definition and Classification
	5th	Properties and uses of refractory materials- tiles, terracotta, porcelain glazing.
6th	1st	Properties and uses of refractory materials- tiles, terracotta, porcelain glazing.
	2nd	Iron and Steel: Uses of cast iron, wrought iron, mild steel and tor steel
	3rd	Iron and Steel: Uses of cast iron, wrought iron, mild steel and tor steel
	4th	CHAPTER-5(SURFACE PROTECTIVE MATERIALS):-Composition of Paints
	5th	Enamels, varnishes
<u> </u>	501	Enamels, variables

		Types and uses of surface protective materials like Paints,
7th	1st	Enamels, Varnishes, Distempers, Emulsion, French polish and
		Wax Polish
		Types and uses of surface protective materials like Paints,
	2nd	Enamels, Varnishes, Distempers, Emulsion, French polish and
	2110	Wax Polish
		Types and uses of surface protective materials like Paints,
	3rd	Enamels, Varnishes, Distempers, Emulsion, French polish and
	Siu	Wax Polish
		BUILDING CONSTRUCTION
		CHAPTER-1(INTRODUCTION):-Buildings and classification of
	4th	
		buildings based on occupancy
	วเท	Different components of a building.
8th	1st	Site investigation – objectives, site reconnaissance and
		explorations
	2nd	CHAPTER-2(FOUNDATIONS):-Concept of foundation and its
		purpose
	3rd	Shallow fondation and its types
	4th	Deep fondation and its types
	5th	Shallow foundation-constructional details of : Spread
		foundations for walls
9th	1st	thumb rules for depth and width of foundation and thickness
5 (of concrete block
	2nd	Deep foundations: Pile foundations-their suitability
	3rd	classification of piles based on materials, function and method
	Sid	of installation.
	4th	CHAPTER-3(WALLS & MASONRY WORKS):-Purpose of walls
	Eil	Classification of walls – load bearing, non-load bearing walls,
	5th	retaining walls.
	1st	
10th		Classification of walls as per materials of construction: brick,
10111		stone, reinforced brick, reinforced concrete, precast, hollow
		and solid concrete block and composite masonry walls
	2 1	Partition Walls : Suitability and uses of brick and wooden
	2nd	partition walls
	3rd	Brick masonry : Definition of different terms
		Bond – meaning and necessity: English bond for 1and 1-1/2
	4th	Brick thick walls
		T, X and right angled corner junctions. Thickness for 1and 1-
	5th	1/2 brick square pillars in English bon
		Glossary of terms –String course, corbel, cornice, block-in-
11th	1st	course, grouting, mouldings, templates, Throating, through
		stones, parapet, coping, pilaster and buttress
		CHAPTER-4:-(DOORS, WINDOWS AND LINTELS):-Glossary of
	2nd	terms used in doors and windows
	3rd	Doors – different types of doors
+	4th	Doors – different types of doors Doors – different types of doors
	5th	Windows – different types of windows
12th		Windows – different types of windows Windows – different types of windows
12111	1st 2nd	
	ZIIU	Purpose of use of arches and lintels

	3rd	CHAPTER-5(FLOORS, ROOFS AND STAIRS)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
	4th	Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs
	5th	Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs
13th	1st	Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing, head room, mumty room
	2nd	Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs)
	3rd	bifurcated stair, spiral stair, cantilever stair, tread riser stair
	4th	CHAPTER-6(PROTECTIVE, DECORATIVE FINISHES, DAMP AND TERMITE PROOFING):-Plastering – purpose – Types of plastering, Types of plaster finishes – Grit finish, rough cast, smooth cast, sand faced, pebble dash, acoustic plastering and plain plaster etc
	5th	Proportion of mortars used for different plasters, preparation of mortars,
14th	1st	Techniques of plastering and curing
	2nd	Pointing – purpose –Types of pointing
	3rd	Painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces –
	4th	powder coating and spray painting on metal surfaces.
	5th	White washing – Colour washing – Distempering – internal and external walls.
15th	1st	Damp and Termite proofing – Materials and Methods.
	2nd	Damp and Termite proofing – Materials and Methods
	3rd	CHAPTER-7(GREEN BUILDINGS, ENERGY MANAGEMENT AND ENERGY AUDIT OF BUILDINGS & PROJECT):-Concept of green building
	4th	ntroduction to Energy Management and Energy Audit of Buildings
	5th	Aims of energy management of buildings.
16th	1st	Types of energy audit, Response energy audit questionnaire
	2nd	Types of energy audit, Response energy audit questionnaire
	3rd	Energy surveying and audit report.
	4th	Revision
	5th	Revision



Discipline: Civil Engneering	Semestar-3rd	Name Of the teaching Faculty: Smt.Pramila Kumari Gouda
Subject:	No. of Days/per	Semestar From Date : 1/08/2023 To Date: 30/11/2023
ESTIMATION & week class COST EVALUATION alloted:4		No. Of Weeks: 16
Week	Day	Theory Topics to be covered
	1.0+	CHAPTER 1
	1st	Introduction
1st	2nd	1.1 Types of estimates – Plinth area, floor area / carpet area
	3rd	1.2 Units and modes of measurements as per IS 1200
	4th	1.3 Accuracy of measurement for different item of work
	1st	CHAPTER 2 Quantity Estimate of Building
2nd	2nd	Short wall long wall method and centre line method
	3rd	deductions in masonry, plastering, white washing, painting etc.,
	4th	deductions in masonry, plastering, white washing, painting etc.,
	Ten	multiplying factor (paint coefficients) for painting of doors and
	1st	windows (paneled/glazed), grills etc.
		multiplying factor (paint coefficients) for painting of doors and
	2nd	windows (paneled/glazed), grills etc.
3rd		Detailed estimate of single storied flat roof building with shallow
	3rd	foundation and RCC roof slab with leak proof treatment over it
	Siu	including staircase and mumty room.
	4th	
	1st	Detailed estimate of plan 1 by long wall short wall
	2nd	
4th	3rd	Detailed estimate of plan 1 by center line method
	4th	Detailed estimate of plan 2 by long wall short wall
	1st	Detailed estimate of plan 2 by long wall short wall
Eil	2nd	Detailed estimate of plan 2 by center line method
5th	3rd	Detailed estimate of plan 3 by long wall short wall
	4th	Detailed estimate of plan 3 by long wall short wall
	1st	Detailed estimate of plan 3 by long wall short wall
6th	2nd	
סנוו	3rd	Detailed estimate of plan 3 by center line method
	4th	
	1st	Detailed estimate of plan 4 by long wall short wall
7th	2nd	Detailed estimate of plan 4 by long wall short wall
/ UI	3rd	
	4th	
	1st	Detailed estimate of plan 4 by long wall short wall
8th	2nd	betailed estimate of plan + by long wall short wall
	3rd	
	4th	
	1st	Detailed estimate of plan 5
9th	2nd	
5611	3rd	Detailed estimate of plan 5
	4th	Detailed estimate of plan 5
	1st	Detailed estimate of plan 5

		CHAPTER 3	
10+b	2nd	Analysis of Rates and Valuation	
10th		Analysis of rates for cement concrete,	
	3rd	Analysis of rates for Laterite stone masonry in Cement Mortar,	
	4th	Analysis of rates for Laterite stone masonry in Cement Mortar,	
	1st	Analysis of rates for Laterite stone masonry in Cement Mortar,	
11th	2nd	Analysis of rates for cement plaster, white washing,	
11(1)	3rd	Analysis of rates for cement plaster, white washing,	
	4th	Analysis of rates for Artificial Stone flooring	
	1st	Analysis of rates for Artificial Stone flooring	
12th	2nd	Analysis of rates for Tile flooring, concrete flooring,	
12(1)	3rd	Analysis of rates for Tile flooring, concrete flooring,	
	4th	Analysis of rates for reinforcing steel,	
	1st	Analysis of rates for reinforcing steel,	
13th	2nd	Painting of doors and windows etc. as per OPWD.	
	3rd	Painting of doors and windows etc. as per OPWD.	
	4th	Painting of doors and windows etc. as per OPWD.	
	1st	Calculation of lead, lift, conveyance charges, royalty of materials, etc.	
14th	2nd	as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions	
14(1)	3rd	Analysis of rates for R.C.C. with centering and shuttering,	
	4th	Abstract of cost of estimate.	
	1st	Valuation- Value and cost, scrap value, salvage value,	
	2nd	assessed value, sinking fund, depreciation and obsolesce, methods of	
15TH	3rd	valuation	
	4th	CHAPTER 4	
	401	Administrative Set-Up of Engineering Organisations	
	1st	Administrative set-up and hierarchy of Engineering department in State	
	2nd	Govt./Central Govt./PSUs/Private Sectors etc. Duties and	
	3rd	responsibilities of Engineers at different positions /levels.	
16TH	4th	responsibilities of Engineers at afficient positions flevers.	

Signature of the Faculty

Poamella Ku. Boude

Discipline-Civil Engineering	Semester-3rd	Name of the teaching faculty:- Er. Diptirani Mishra & Er. Pramila kumari Gouda
Subject:- Civil Engineering Material -I	No. of days /per week class alloted:-6	Semester From Date:01/08/2023 to 30/11/2023
Week	Class Day(3 period per day)	Theory/Practical Topics
1st	1st	Determination of fineness of Cement by sieving
	2nd	Determination of normal Consistency of cement
2nd	1st	Record checking and sessional viva
2110	2nd	Initial and final setting time of Cement
3rd	1st	Determination of Compressive Strength of cement
3ru	2nd	Determination of soundness of Cement by Le-Chatelier apparatus
4th	1st	Determination of Compressive Strength of Burnt clay Bricks
	2nd	Record checking and sessional viva
511	1st	Determination of Compressive Strength of Fly Ash Bricks and Blocks
5th	2nd	Grading of Fine aggregate by seiving
6th	1st	Grading of Coarse aggregate by seiving
	2nd	Record checking and sessional viva
7+h	1st	Determination of Specific Gravity of coarse aggregate
7th	2nd	Bulk density of coarse aggregate

8th	1st	Grading of Road Aggregates
otii	2nd	Bulking of sand
9th	1st	Bulking of sand
901	2nd	Record checking and sessional viva
10th	1st	Determination of Flakiness index
1001	2nd	Determination of Elongation Index
11th	1st	Determination of Crushing Value Test of aggregates
1101	2nd	Los-Angeles Abrasion Test of aggregate.
12th	1st	Record checking and sessional viva
	2nd	Impact test of aggregate
13th	1st	Determination of soundness test of road aggregates
1301	2nd	Determination of Compressive Strength of concrete cubes
14th	1st	Slump Cone method for workability of concrete
14(11	2nd	Record checking and sessional viva
1E+h	1st	Compaction Factor method for workability of concrete
15th	2nd	Demonstration on Rebound hammer

4 Cab	1st	Demonstration on Rebound hammer
16th	2nd	Determination of Young's Modulus of steel in a tensile testing machine
Poarrella Ku Boude Signature of The Faculty		

Discipline-Civil Engneering	Semestar- 3rd	Name Of the teaching Faculty: Rakesh Kumar Panda & Brundaban Gamango
Subject- Civil	No. of Days/per week	Semestar From Date: 01/08/2023 To
Engineering Drawing-	class alloted: 5 (per	Date:30/11/2023
1	group)	No. Of Weeks: 16
Week	Class Day	Theory/Practical Topics
1st	1st (2 Periods)	CHAPTER-1(Auto-CAD Software) Recap of Auto- CAD, Draw & Modify Commands
2nd	1st (3 Periods)	Edit, Dimension Commands
ZIIQ	2nd (2 Periods)	Isometric drawings of simple objects
	1st (3 Periods)	Isometric drawings of simple objects & Pratice
3rd	2nd (2 Periods)	2D drawings of the following Building Door, Window, Stair Case
4th	1st (3 Periods)	2D drawings of the following- Building through wall,
	2nd (2 Periods)	Pratice
5th	1st (3 Periods)	Pratice
Jui	2nd (2 Periods)	Pratice
641-	1st (3 Periods)	3D drawing of simple objects & Pratice
6th	2nd (2 Periods)	Pratice
741-	1st (3 Periods)	3D drawing of simple objects & Pratice
7th	2nd (2 Periods)	3D drawing of simple objects & Pratice
	,	CHAPTER-2 (PLAN, ELEVATION AND
8th	1st (3 Periods)	SECTIONAL ELEVATION OF FLAT ROOF BUILDING FROM LINE DIAGRAM AND GIVEN SPECIFICATIONS with use of AutoCAD software.) Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and
	2nd (2 Periods)	Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views form given line diagram and specification.
	1st (3 Periods)	Pratice
9th	2nd (2 Periods)	Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given
10th	1st (3 Periods)	Pratice
1001	2nd (2 Periods)	Pratice
11th	1st (3 Periods)	Preparation of approval drawing of a residential building as per the norms of local approving
	2nd (2 Periods)	Pratice

12th	1st (3 Periods)	CHAPTER-3 (PLAN, ELEVATION AND SECTION OF INCLINED ROOF BUILDING WITH AC SHEET/GCI/TILES ON WOODEN STRUCTURE with use of AutoCAD Commands) Detail drawing of inclined roof building from given line diagram and specification. (gabbled / hipped)
	2nd (2 Periods)	Pratice
	1st (3 Periods)	Pratice
13th	2nd (2 Periods)	Different type of shallow and deep foundations with sketches
14th	1st (3 Periods)	CHAPTER-4 (BUILDING PLANNING) Orientation of buildings, location of openings and living areas & Pratice
	2nd (2 Periods)	Line plan of School, hostel, market complex and dispensary building & Pratice
15th	1st (3 Periods)	Planning of buildings for specific cost based on approximate plinth area rate.
	2nd (2 Periods)	Pratice
16th	1st (3 Periods)	Pratice
16th	2nd (2 Periods)	Pratice

Rakesh Ku. Panda.

Signature of The Faculty

Discipline: Civil	Semestar-3rd	Name Of the teaching Faculty:
Engneering Subject:		Smt.Pramila Kumari Gouda Semestar From Date: 01/08/2023 To Date: 30/11/2023
ESTIMATING	No. of Days/per week class alloted:3	Semestal 110m Date : 01/00/2023 10 Date: 30/11/2023
PRACTICE-I (Pr3)	ciass anoteu.s	No. Of Weeks: 16
Week	Day	Theory Topics to be covered
1ST	1ST	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
2ND	1ST	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
3RD	1ST	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
4ТН	1ST	A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates
5TH	1ST	A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates
6ТН	1ST	A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates
7TH	1ST	Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software.
8ТН	1ST	Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software.
9ТН	1ST	Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software.
10TH	1ST	Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software
11TH	1ST	Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software
12TH	1ST	Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software
13TH	1ST	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
14TH	1ST	Preparation of abstract of cost and bill of quantities of the

15TH	1ST	estimates as per item no. 1.0 above with help of MS Excel
16TH	1ST	software
		Poamella Ker, Goude
		Signature of the Faculty