R.K INSTITUTE OF ENGINEERING & TECHNOLOGY At/Po: Kantapada-Apuja, Niali, Dist- Cuttack, Odisha DEPARTMENT OF CIVIL ENGINEERING LESSON PLAN

Discipline: Civil Engg	Semester: 3rd	Name of the Teaching faculty: Annapurna Mallick Semester from Date: 01 08 2 2 To Date:	
Subject: Building materials and construction technology Th-3	No of Days/Week class alloted: 5days	Semester from Date: 01 08 2 3 To Date: No of weeks:	Status
Week	Class Day	Topics	
	1st	Classification of rock.	
	2nd	Uses of stone, natural bed of stone	
1st	3rd	Qualities of good building stone	
	4th	Dressing of stone	
	5th	Characteristics of different types of stone and their uses	
	1st	Brick earth-its composition	
	2nd	Brick making- preparation of brick earth	
2nd	3rd	Moulding, Drying	
	4th	Burning in kilns (Continuous process)	
	5th	Classification of bricks, size of traditional and modular bricks.	
	1st	Qualities of good building bricks	
	2nd	Cement types of cement, properties manufacturing plete cements, of cement	
3rd	3rd	Importance and application of blended cement with fly ashand blast furnace slag	
	4th	Mortar : Definition and types of mortar	
	5th	Sources and classification of sand, bulking of sand.	
	1st	Use of gravel, morrum and fly ash as different building material.	
4th	2nd	Concrete: Definition and composition –Water cement ratio- workability, Mechanical properties.	
4111	3rd	Grading of aggregates, mixing, placing, compacting and curing of concrete	
	4th	Timber classification and structure of timber	
	5th	seasoning of timber- Importance	
5th	1st	Characteristics of good timber	
	2nd	Clay products and refractory materials- Definition andclassification.	
	3rd	Properties and uses of refractory materials like-tiles,terracotta	
	4th	Porcelain glazing, Iron and steel uses of cast iron.	

	5th		
	1st	Wrought iron, mild steel and tor steel	
6th	2nd	Composition of paints, enamels	
	3rd	Composition of varnishes	
		Types and uses of surface protective materials like paints	
	4th	⊏namels, Varnishes, Distempers	
	5th	Emulsion, French polish and Wax polish Tutorial class.	
	1st	Building and classification of buildings based on	
	2nd	occupancy, different components of buildings site	
741-	2110	investigation objective, Site reconnaissance and explorations	
7th	3rd	Concept of foundation and the	
	4 th	Concept of foundation and its purpose	
		Types of foundation – shallow and deep, shallow foundation - constructional details of Spread foundation of walls.	
	5th	Thump rules for depth and width of foundation and thickness	
		of concrete block.	
		Deep foundations : Pile foundation their suitability,	
	1st	classification of piles based on materials, function andmethod of	
		Installation	
	2nd	Purpose of walls, Classification of walls load bearing, non-load	
8th		bearing walls, retaining walls	
5.11	3rd	Classification of walls as per materials of construction : brick	
	Siu	stone, reinforced brick, reinforced concrete, pre cast, hollowand solid concrete block and composite masonry walls	
	4th		
	701	Partition walls suitability and uses of brick and wooden partition walls, brick masonry, Definition of different terms	
	5th	Bond- meaning and necessity; English bond for I and I -1/2brick thick	
		walls	
	1st	Stone Masonry string course, corbel, Cornices block in	
	2nd	course Grouting, mouldings, templates, throating through stones,parapet,	
9th	2110	coping, pilaster and buttress	
	3rd	Grouting, mouldings, templates, throating through stones,parapet,	
		coping, pilaster and buttress	
	4th	Glossary of terms used in doors and windows doors- differenttypes of	
		doors	
	5th	Glossary of terms used in doors and windows doors- differenttypes of	
		doors	
	1st	Doors- different types of doors	
10th	2nd	Doors- different types of doors	
	3rd	Windows – different types of windows	
	4th	Windows – different types of windows	
11th		Purpose of use of arches and lintels	
	1st	Purpose of use of arches and lintels Floors, types of floor finishes-cast – situ, concrete flooring,terrazzo tile	
	and	flooring cast in situ terrazzo flooring, timber	
	2nd	flooring.	
-	3rd	Floors, types of floor finishes-cast – situ, concrete flooring,	
	Jiu	terrazzo tile flooring cast in situ terrazzo flooring, timber	
1			

		flooring.	
		Roots types concept and function of flat pitched and sloppedroofs	
	5th	Roots types concept and function of flat pitched and sloppedroofs	
	1	stair case, landing, winder, stringer, newel, baluster, rise, tread, width	
	2nd	stair case, landing, winder, stringer, newel, baluster, rise,tread , width	
12th	3rd	Hand rail, noising, head room, mumty room, various types of stair case – straight flight, dog legged open well	
	4th	Hand rail, noising, head room, mumty room, various types of stair case – straight flight, dog legged open well	
	5th	Quarter turn, half turn, bifurcated stair, spiral stair, cantileverstair,	
	1st	Plastering – purpose- types of plastering types of plasterfinishes.	
13th	2nd	Plastering – purpose- types of plastering types of plasterfinishes.	
	3rd	Proportions of mortar of plaster, pre parathion techniques and curing.	
	4th	Painting purpose types, paining	
	∗5th	Painting purpose types, paining	
	1st	White washing –colour washing- distempening internal and external walls	
14th	2nd	Damp and termite proofing – materials and method	
	3rd	Concept of green building, introduction to energymanagement and audit of building	
	4th	Aims of energy management of buildings	
	5th	Types of energy audit, response energy audit questionnaire	
	1st	Energy Surveying and audit report	
15th	2nd	Types of energy audit, response energy audit questionnaire	
	3rd	Energy Surveying and audit report	
	4th	PREVIOUS YEAR QUESTIONS	
	5th	PREVIOUS YEAR QUESTIONS	
16th	1st	CLASS TEST 3, PREVIOUS YEAR QUESTIONS, QUIZ	

Learning Resources:

SI No.	Author Name	Name of the Book
1	N. Subramanian Building materials & Construction	N. Subramanian Building materials & Construction
2	Rangwala EngineeringMaterials	Rangwala Engineering Materials
3	Rangwala Building Construction	Rangwala Building Construction

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R.K INSTITUTE OF ENGINEERING & TECHNOLOGY At/Po: Kantapada-Apuja, Niali, Dist- Cuttack, Odisha DEPARTMENT OF CIVIL ENGINEERING LESSON PLAN

Discipline: Civil Engg.	Semester:	Name of the Teaching faculty: Monalin Barcik.	
Subject: Estimation & costing-I Th-4	No of Days/Week class alloted:	Semester from Date: 010823 To Date: No of weeks:	Status
Week	Class Day	Topics	
	1st	1.0 INTRODUCTION: 1.1 Types of estimates – Plinth area, floor area / carpetarea	
1st	2nd	1.2 Units and modes of measurements as per IS 1200 1.3 Accuracy of measurement for different item of work	
	3rd	2.0 QUANTITY ESTIMATE OF BUILDING 2.1 Short wall long wall method and centre line method	
	4th	Problems	
	1st	deductions in masonry,	
	2nd	Problems	
2nd	3rd	plastering,	
	4th	Problems	
	1st	white washing,	
	2nd	Problems	
3rd	3rd	painting etc., multiplying factor	
	4th	Problems	`
	1st	painting etc.,	
4th	2nd	for painting of doors and windows (paneled/glazed), grills etc. as per OPWD scheduled of rates.	
	3rd	Problems	
	4th	Problems	
	1st	Problems	
	2nd	Problems	
5th	3rd	Detailed estimate of single storied flat roof building with shallow foundation and	
	4th	Problems	
	1st	Problems	
CAL	2nd	RCC roof slab with leak proof treatment over it including	
6th	3rd	Problems	
	4th	Problems	
7th	1st	2.3Detailed estimate of a simple inclined roof building with gabled /hipped roof	
	2nd	Problems	
	3rd	Problems	

	4th	and A.C. sheet / G.C.I. sheet roofing.	
	1st	Problems	
OAL	2nd	Problems	
8th	3rd	Problems	
	4th	3.0 ANALYSIS OF RATES AS PER OPWD SPECIFICATIONS / STANDARDS	
	1st	3.1 Analysis of rates for cement concrete Problems	
9th	2nd	Problems	
5(1)	3rd	Problems	
	4th	brick masonry in Cement Mortar	
	1st	Problems	
1044	2nd		
10th	3rd	laterite stone masonry in Cement Mortar, Problems	
	4th	Problems	
	1st	cement plaster	
1146	2nd	Problems	
11th	3rd		
	4th	white washing ,Artificial Stone flooring, Problems	
	1st	concrete flooring,	
12+6	2nd	Problems	
12th	3rd		
	4th	R.C.C. with centering and shuttering, reinforcing steel, Problems	
	1st	Painting of doors and windows etc	
	2nd	Problems	
13th	3rd	3.2Calculation of lead, lift, conveyance charges, royalty of materials, etc.as per Orissa P.W.D. system	
	4th	3.3 Abstract of cost of estimate.	
	1st	4.0 ADMINISTRATIVE SET-UP OF ENGINEERING ORGANISATIONS	
14th	2nd	4.1Administrative set-up and hierarchy of Engineering Deptt. Duties of Engineers at different positions /levels	
	3rd	DOUBT CLEARING CLASSES	
	4th	PREVIOUS YEAR QUESTION DISCUSSION	
	1st	PREVIOUS YEAR QUESTION DISCUSSION	
154	2nd	PREVIOUS YEAR QUESTION DISCUSSION	
15th	3rd	PREVIOUS YEAR QUESTION DISCUSSION	
	4th	PREVIOUS YEAR QUESTION DISCUSSION	
16th	1st	CLASS TEST 3, PREVIOUS YEAR QUESTIONS, QUIZ	

LearningResources:

Learning	Meso and	Name of the Book
SI No	. Author Name	Name of the BOOK Estimating, Costing, specification & Valuation in Civil Engineering
1	M.Chakraborty. Estimating	B.N.Dutta Estimating &Costing
2	B.N.Dutta Estimating &Costing	and of Odicha Latest Orissa PWD Schedule of Rates & Analysis
3	Govt. of Odisha Latest Orissa PWD Schedule of Rates & Analysis of rates	of rates

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R.K INSTITUTE OF ENGINEERING & TECHNOLOGY At/Po: Kantapada-Apuja, Niali, Dist- Cuttack, Odisha DEPARTMENT OF CIVIL ENGINEERING LESSON PLAN

Discipline: Civil Engg	Semester: 3rd	Name of the Teaching faculty: , Angaptica a Seffy Semester from Date: 01 (08) 8 To Date:	
Subject:	No of	Semester from Date: 01108 72 To Date:	
Structural	Days/Wee		Status
Mechanics	k class	No of weeks:	
Th-1	alloted:		
111-7	days		
Week	Class Day	Topics	
	1st	Basic Principle of Mechanics	
	2nd	Force, Moment, support conditions, Conditions of equilibrium	
1st	3rd	C.G & MI, Free body diagram	
	4th	Review of CG and MI of different sections	
	5th	Review of CG and MI of different sections	
	1st	Introduction to stresses and strains	
		Mechanical properties of materials – Rigidity, Elasticity,	
	2nd	Plasticity, Compressibility, Hardness, Toughness, Stiffness,	
2nd		Brittleness,	
	3rd	Ductility, Malleability, Creep, Fatigue, Tenacity, Durability	
	4th	Types of stresses -Tensile, Compressive and Shear stresses	
	5th	Types of strains - Tensile, Compressive and Shear strains	
	1st	Complimentary shear stress - Diagonal tensile / compressive	
	150	Stresses due to shear	
	2nd	Elongation and Contraction, Longitudinal and Lateral strains	
3rd	3rd	Poisson's Ratio, Volumetric strain, computation of stress, strain	
	4th	change in dimensions and volume etc.	
	5th	Numerical	
	1st	Hooke's law - Elastic Constants	
	2nd	Derivation of relationship between the elastic constants	
	3rd	Application of simple stress and strain in engineering field	
4th	4th	Behavior of ductile and brittle materials under direct loads, Stress Strain curve of a ductile material	
		Limit of proportionality, Elastic limit, Yield stress, Ultimate	
	5th	stress, Breaking stress, Percentage elongation, Percentage	
		reduction in area	
5th	1st	Significance of percentage elongation and reduction in area of cross section	
	2	Deformation of prismatic bars due to uniaxial load,	
	2nd	Deformation of prismatic bars due to its self-weight.	
	3rd	Complex stress and strain	
	4th	Principal stresses and strains: Occurrence of normal and	

		tangential stresses
	5th	Concept of Principal stress and Principal Planes
	1st	major and minor principal stresses and their orientations
C+h	2nd	Mohr's Circle and its application to solve problems of complex stresses
6th	3rd	Stresses in beams due to bending: Bending stress in beams – Theory of simple bending – Assumptions
	4th	Moment of resistance – Equation for Flexure– Flexural stress distribution
	5th	Curvature of beam – Position of N.A. and Centroidal Axis – Flexural rigidity – Significance of Section modulus
	1st	of rectangular, circular and standard sections symmetrical about vertical axis.
7th	2nd	Shear stresses in beams: Shear stress distribution in beams of rectangular, circular and standard sections symmetrical about vertical axis.
	3rd	Concept of torsion, basic assumptions of pure torsion
	4 th	torsion of solid and hollow circular sections, polar moment of inertia
	5th	torsional shearing stresses, angle of twist, torsional rigidity, equation of torsion
	1st	Combined bending and direct stresses: Combination of stresses, combined direct and bending stresses.
8th	2nd	no tension, Limit of eccentricity
	3rd	wilddie third/fourth rule. Core or Kern for square
	4th	retaining walls
	5th	Numerical
	1st	Columns and Struts, Definition, Short and Long columns
	2nd	Slenderness ratio
9th	3rd	Axially loaded short and long column, Euler's theory of long columns
	4th	Critical load for Columns with different end conditions
	5th	Distributed load (UDL)
	1st	Types of Supports: Simple support, Roller support, Hinged support, Fixed support
	2nd	Types of Reactions: Vertical reaction, Horizontal reaction, Moment reaction
10th	3rd	Types of Beams based on support conditions
	4th	Calculation of support reactions using equations of static equilibrium
		Shear Force and Bending Moment: Signs Convention for S.F. and B.M

		O.F. J.D. S.	
	1st	S.F and B.M of general cases of determinate beams with	
	2nd	concentrated loads and udl only	
11th		S.F and B.M diagrams for Cantilevers	
	3rd	Simply supported beams and over hanging beams	
	4th	Position of maximum BM, Point of contra flexure	
	5th	Relation between intensity of load, S.F and B.M.	planter or high light great to the same first transmit from the
	1st	Numerical	
		Introduction: Shape and nature of elastic curve (deflection	
	2nd		
12th	2	curve) Introduction: Shape and nature of elastic curve (deflection	
	3rd		
	4th	curve) Relationship between slope, deflection and curvature (No	
	401	derivation) Relationship between slope, deflection and curvature (No	
	5th	derivation)	
		to the second state and deflection	
	1st	- I do the option of application similar supported	
	2nd	harmounder concentrated and uniformly distributed read (2)	
	Zna	Dauble Integration mathem Macaulay 5 Hours	
		to a send deflection of cantilever and simply supported	
13th	3rd	beams under concentrated and uniformly distributed load (2)	
		Double Integration method, Macaulay's method)	
		Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by	
	4th	Double Integration method, Macaulay's method)	
		to the send deflection of cantilever and SIMDIV SUPPORTED	
	Fall	beams under concentrated and uniformly distributed load (by	
	5th	Double Integration method, Macaulay's method)	
	1st	Indeterminacy in beams	
4.44	2nd	Principle of consistent deformation/compatibility	
14th	3rd	Analysis of propped cantilever	
	4th	Analysis of propped cantilever	
	5th	Analysis of propped cantilever	
		fixed and two span continuous beams by principle of	
	1st	superposition	-
15th	2nd	SF and BM diagrams (point load and udl covering full span)	-
	3rd	SF and BM diagrams (point load and udl covering full span)	_
	4th	SF and BM diagrams (point load and udl covering full span)	_
	5th	SF and BM diagrams (point load and udl covering full span)	_
	1st	Introduction: Types of trusses	-
	2nd	statically determinate and indeterminate trusses	-
16th	3rd	statically determinate and indeterminate trusses	-
	4th	degree of indeterminacy	-
	5th	stable and unstable trusses	
	1st	advantages of trusses.	-
17th	2nd	Analysis of trusses: Analytical method (Method of joints, method of Section)	

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	ethod of joints,	ethod of joints,	ethod of joints,	TILO SINCITA
	Analysis of trusses: Analytical method (Method of joints, method of Section)	Analysis of trusses: Analytical method (Method of joints, method of Section)	Analysis of trusses: Analytical method (Method of joints, method of Section)	THE SHORT STATE OF THE STATE OF
	russes: Analy action)	usses: Analy	usses: Analy	יטויוםם מיד
	Analysis of trusses method of Section)	Analysis of trusses: method of Section)	Analysis of trusses: method of Section)	LOLL CON TO
	3rd	4th	5th	

LearningResources:

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SI No.	SI No. Author Name	Name of the Book
1	R.Subramanian	R.Subramanian Strength of Materials
	Silengin of Materials	
2	S.Rammrutham	I heory or structure
(V.N.Vazirani&M.M.	Analysis of Structures Vol.I&
n	Rathwani	

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R.K INSTITUTE OF ENGINEERING & TECHNOLOGY At/Po: Kantapada - Apuja, Niali, Dist- Cuttack, Odisha DEPARTMENT OF CIVIL ENGINEERING LESSON PLAN

Discipline: Civil Engg.	Semester: 3rd	Name of the Teaching faculty: Simulations of the Teaching faculty: Simulations of the Teaching faculty: Semester from Date: Office Date:	
Subject: Geotechnical Engineering Гh-2	No of Days/Week class alloted:	Semester from Date: 0 M23To Date:	Status
Veek	Class Day	Topics	
	lst	1.0 INTRODUCTION 1.1- Soil and Soil Engineering.1.2- Scope of Soil Mechanics	
lst	2nd	2.0 PRELIMINARY DEFINITIONS AND RELATIONSHIP.2.1-Soil as a three Phase system.	
	3rd	Weight volume relationships: Water Content, Density	
	4th	Specific gravity, Voids ratio, Porosity,	
	1 st	degree of saturation ,Percentage of air voids, air content,	
2 .	2nd	density Index, Bulk/Saturated/dry/submerged density.	
2nd	3rd	3.0DETERMINATION OF INDEX PROPERTIES. 3.1- Water Content (Pycnometer method, Oven dryingmethod)	
	4th	3.2- Specific Gravity	
3rd	1st	3.3- Particle size distribution, Sieve analysis, Wetmechanical analysis- Pipette method, Basic concept of	
	2 nd	Hydrometer Analysis 3.4 – Consistency of Soils, Atterberg's Limits, Plasticity Index, Consistency Index, Liquidity Index	
	3rd	4.0CLASSIFICATION OF SOIL. 4.1- General.	
	4th	4.2- Particle size Distribution.	
	1st	-Textural Classification.	
4th	2nd	-HRB Classification.	
	3rd	-Unified Soil Classifications	
	4th	I.S. Classification.	
	1 st	5.0PERMEABILITY AND SEEPAGE 5.1- Concept of Permeability, Darcy's Law	
5th	2nd	Co-efficient of Permeability,	
	3rd	5.2 Factors affecting Permeability	
	4th	5.3- Constant head permeability and	
6 th	lst	falling head permeability Test	
	2nd	5.4- Seepage pressure, the phenomenon of quick sand	

	3rd	5.5- Concept of flow-net, Properties and application of flow-net,
	4th	6.0- COMPACTION AND CONSOLIDATION
	lst	6.1- Compaction, Light and heavy compaction Test Optimum Moisture Content of Soil, Maximum dry density, Zero air world the
7th	2nd	The state of the s
	3rd	Factors affecting Compaction
	4th	Field compaction methods and their suitability
		- one of the time transfer to the time to
	1 st	
		Spring Analogy method, Pressure-void ratio
		normally consolidated
8th	2nd	under consolidated and over consolidated soil, Assumption of Terzaghi's theory of one-dimensional consolidation, Laboratory Consolidation Test
		Laboratory Consolidation Test
	3rd	Co-chicient of Concolidation
		consolidation settlement, Difference between primary and secondary consolidation
	4th	secondary consolidation 7.0SHEAR STRENGTH.
		7.1- Concept of shear strength
9th	1st	Mohr- Coulomb failure theory,
9th	2nd	Cohesion, Angle of internal friction
	3 rd	strength envelope for 1.00
	4th	strength envelope for different type of soil, Measurement of above
	1 st	Measurement of shear strength; Direct shear test,
		triaxial shear test, unconfined compression test and vane-
10th	2nd	8.0EARTH PRESSURE ON RETAINING STRUCTURES 8.1Active earth pressure
	3 rd	8.1Active earth pressure
	4th	Passive earth pressure,
	1st	Earth pressure at rest.
11th	2nd	8.2- Use of Rankine's formula for the following cases (cohesion-less soil only)
	3rd	(i) Backfill with no surcharge,
	4th	(ii) backfill with uniform surcharge.
	1st	iii) submergedbackfill
	2nd	9.0 FOLINDATION ENGINEER
12th		9.0 FOUNDATION ENGINEERING. 9.1- Functions offoundations,
	3rd	shallow and deep foundation,
	4th	different type of shallow and deep foundations with sketches.
	1st	Types of failure (General shear, Local shear & punching
13th		snear)
	2nd	9.2 Bearing capacity of soil, bearing capacity of soils using Terzaghi's formulae & IS Code formulae for strip, Circular and square feetings
	3rd	andsquare footings
	514	9.3 Machine Foundation: Introduction to Soil dynamics, Terms associated with soil dynamics
	4th	
		free vibration and Forced vibration, Natural frequency, Types of

14th	1 st	Free vibration and Forced vibration, Natural frequency, Types of	g
	2nd	machines and machine foundation, General requirements, Design of machine	
	3rd	machines and machine foundation, General requirements, Design of machine	
	4th	foundations: Reciprocating type, Centrifugal type, Impact type,	
	1st	Isolation of foundations.	
15th	2nd	foundations: Reciprocating type, Centrifugal type, Impact type,	
	3rd	Isolation of foundations.	
	4th	PREVIOUS YEAR QUESTION DISCUSSION	
	1st	REVISION	
16th			

LearningResources:

		Name of the Book
SI No.	Author Name	Name of the Book
1	Dr. B.C.Punmia Soil Mechanics & Foundation Engineering	Dr. B.C.Punmia Soil Mechanics & Foundation Engineering
2	Dr. K.R.Arora Soil Mechanics& Foundation Engineering	Dr. K.R.Arora Soil Mechanics& Foundation Engineering
	Dr. V.N.S. Murthy	Soil Mechanics& Foundation Engineering, Vol
3	Dr. V.N.S. Multiny	

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1		-: LESSON PLAN:-
Discipline	Semester	Name of the teaching faculty: Monalto Barriy
Subject.	No. Of days / per week class allotted:-	Semester 3 1 from date: 01/16/2021 To Date: 18/6// 2022 No. Of weeks:-
Week	Class day	Theory/ Practical Topics :
CH-1	1st 1. 10.21	- Introduction
	2nd 4.10.21	
FIRST	3rd 5.10.21	scope of soil mechanics.
	4th 7.10.21	orugin
	5th 8.10.22	formation of soil
	1st 19·10·21	Doubt cleaning class
(H-9	01 10 01	Societàs a thrice Phale System
SECOND	3rd 22.10.24	water content : Density, specific gravity.
	4th 25. 10. 21	void & natio, ponosity, pericentage of ain
	5th 26.10.21	ain content, degree of saturation, density
	1st 28.10.24	Bulk, Isafunated Idny submenged density,
	2nd 29:10:21	Internelationship of various soil parameters
THIRD	3rd 1 · 11.21	Doubt Cleaning Class
	4th 2. 11.21	Class test
CH-3	5th 5. 11.21	evater content
	1st	specific gravity
	2nd 9-11-24	particle 952e Distribution
	3rd 11·11·21	Sieve analysis, wet mechanical analysis
	4th 12.1121	Particle eize sistrubution curve and they.
	5th 13.11.21	eonsistency of coulx.

Discipline		-:LESSON PLAN:-	7/1/2/
	Semester	Name of the teaching faculty:-	Scipling
Subject.	No. Of days / per week class allotted:-	Semestor	
Week	Class day	Theory/ Practical Topics :	
	1st 6. . 21	Attenbengis Limits, Plasticity index, consistency index, liquidity index,	
FIRST	18. 11. 24	Doubt cleaning class	
	22,11,21	Class last	1
CHY	4th 23.11.21	Clarification of soil	
	25.11.57	De Clanification, or all	
C145	1st 26.11.21	Oncept of permeability.	
SECOND	2nd 29.11.84	1) (1) (1) (1)	
	3rd 30. 11.21	co-extinent of permembility	
	4th 2. 12. 21	factors affecting penneability	
	5th 3.12.2\	constant head permeability and failing	
	6.18.87	Sepage Pressure, effective stress, lieromental	
	712 2)	Doubt Clearains	
CH6	4th 1212 21	compaction _ Light and heavy compaction best than most take content of soil in factory affecting compaction field compaction method find the consolidation, distraction to be 20	
	5th 12 14 21	affecting compaction. Field compaction method engitering	
	13.421	and ansalida him	Í
	2nd 16.12.21	Tenzaghi's model analogy of compnession/ Spring showing the process of consolidation	
FORTH CH-7	3rd 17:12.21	Doubt cleaning day.	
-	17.10.21 4th 20.12.21	concept of a hearistnength, mohn-colorny cohesion, Angle of internal Eruction.	
	5th 21.19.21	Strength envelope for different types of	
		Total College A Lang of	

iscipline	Semester	Name of the teaching faculty:-
ubject.	No. Of days / per week class allotted:-	Semester 300 . from date: 01/10/21 To Date: 13/01/22 No. Of weeks:-
Veek	Class day	Theory/ Practical Topics :
3	1st 23. [2:21	Measurement of shear strength - Direct Shear test, triaxial shear test
	2nd 24.12.21	union Ringo compression test and vare-
IRST	3rd 27.12.21	Doubt cleaning class.
9+8	4th 28. (22)	Active earth pressure, parrive earth pressure
	5th 30.1221	use of Rankine, formula forth following
	1st31.12.21	Bockfill with no surcharge
	^{2nd} 3. 3.28	Backfill with uniform Suncharge
SECOND	3rd 04.01.21	Doubt Clearing Class.
49	4th 06·01·21	function of foundation, Shallow enddeep
	5th 07' 01' 21	Types of failure.
	1st 11.01.21	Blancing capacity of soils, bearing capacity of soils using Tengaghi formula
	2nd (3:01-21	Circular and square foothor effect water
THIRD	3rd 17.01.21	Plade 1000 test and standard peretration Peniclos
	4th [8.01.2]	Revictor .
	5th	
:ORTH	1st	1 och
	2nd	Modern State Control of the Control
	3rd	Martin & R. Malling High
	4th	OKTHE OF SHIP OF HOODES
*	5th	Mul 2 Maria

-: LESSON PLAN- 2021-2012

		-: LESSON PLAN: 2021-2022	
iscipline	Semester	Name of the teaching faculty:-	
ubject. Structure Mechanic Um)	Class	Name of the teaching faculty:- Annapura Sethy Semester 3nd from date: 01/10/21 No. Of weeks:-	
Week	Class day	Theory/ Practical Topics :	
CHO	1st 4.10.21	Basic Pranciple of Mechanics : Force, Moment	
FIRST	2nd S. 10.2	Supporce Conditions, Condition of Eduli prium	
CH-2 (co)	4th q · [0 · 2]	Review of CG and MI of All & event sections	17
	1st 22.10.21	Antroduction to stricts and strains Mechanical properties of materials. Types of strictes	
SECOND	4th 21.10.21	Complimentary shear stress.	
	27/012/	Dragonal tensile / compressive about to	1
HIRD	30101218 30101213 3rd 1.11.21	Passon's Patro Computation of Streets, Retroits.	
	3.11.21	Volumetrais. Stream	· · · · · · · · · · · · · · · · · ·
2	5.11·21 C	hange for dimensions and volume etc.	
CHED CLD 4	" 9.11.21 De	Exclude of ductile and bottle materials	

V		-:LESSON PLAN:-	-1/
Disciplin	semester	Name of the teaching faculty:-	
Subject.	No. Of days / per week class allotted:-	Semester from date: No. Of weeks:-	
Week	Class day	Theory/ Practical Topics :	
FIRST	2nd 13 · 11 · 21	Limit of proporestionality, Elastic 17mit.	
CH-26	5th	DESources of Prasmatre bear due toursained	
¥	1st 20 · 11 · 21	Occuration of normal and four gentral street	
ECONO 3	4th 911 11 71	Stressee on become due to bonding in Bending stress in beams	
	5th & b. 11. 21 n	Moment of the sistemmer-Equation of the sistemmer - Equation of the	
	7	Plexural ragidaty - significance of section moduly heart stresses in beam	
HIRD	4th 1.12.2	stresses for shafts due to torenan money	
	5th 3 · 12·21 1	ordine assumptions of putip toresion. Otherway stresses.	
	2nd ()	omprimed bending and direct stricter.	
	3rd 7. 12.21 T.	ectoriquian and circulate sections	
	5th .	Detropason	
		notet and Long Columns	

		20.21
Discipline	Semester	Name of the
Subject.		Name of the teaching faculty:-
	No. Of	Samost Samost
	days / per week class	Semester 300
	allotted:-	from date: 01/10/2) No. Of weeks:- To Date: 18/01/28
	accu	(01) 20
Week		
	Class day	Theory/ Practical Topics :
	1st 11.12.21	
Eincrol	2nd 13.12.7/	Scherels Theory of long Columns
FIRSTOHA	3rd 14.12.21	Of any of local for columns with different end and
	4th 15,12,21	Sheare Lorece and bending moment.
	5th 17.12.21	Types of beams: booked on support conditions
	10.17.	Chapter daman I I have
SE	2nd 2012:21	Showe force and bending moment no beams
SECOND	3rd 21.12:21	Simply supported beauty and over hanging beaut
CH-B	4th 22.12.2	Relation between interest of lood, stada.
_	5th	Stope and Defleotron + Defination
	5th 24.12.2	Shall and continued of the
	27. N.21	Relationship between Slope left, currence
THIR		Importance of slope and deflectos
THIRD	0 (1143)	CIODO CONTRA DO COMO CONTRA DE COMO CONTRA DE COMO CONTRA DE COMO CONTRA DE COMO COMO COMO COMO COMO COMO COMO COM
operation in the contract of t	31: 12:21	Simply supported beauth under consentrated
	5th 3.01.22	1) Differently of reduced to longer threates
Ch-7	1st 4.01.22	Prodetereminalte Beaume
ORTH	^{2nd} 5:01.22	Analytic Of propped Contilonor
HTRC		Analysis Of propped Contilener
	4th 8101,29	Arxed and two span continuous beams
	5th 10:1:22	St and BM oyagtram
		Poros load and Odl overly Full spans

		-:LESSON I	
Discipli	ne Semester	Name of the teaching faculty:-	
Subject.	No. Of days / per week class allotted:-	Semester from date: No. Of weeks:-	
Week	Class day	Theory/ Practical Topics :	
CH-	2 1st 11.01.22	THURSEL DEFROOTED	
	200 12.01.22	TYDOO OF AUGCOO	
FIRST	3rd 15,01.22	Statically determinate and independent to	raffe
	4th 17.01.22	Defree of Indeterminary	
	18.01.22	Stable and unstable freusel, Advertages of trusse	9
	1st 2nd	· · · · · · · · · · · · · · · · · · ·	
SECOND	3rd		
BECOND	4th	- Company of the contract of t	
	5th	OO TOAL OOR TEEN HOD. CIV.	
	1st	Charles A land to the land to	
	2nd	Institute of the contract of t	
HIRD	3rd	2 tantal	1
	4th	and the same of th	
ž	5th	:	
	1st		
	2nd		
RTH	3rd		
H	4th		
	5th	.F	

		-: LESSON PLAN:-
Discipline	Semester	Name of the teaching faculty:
Subject.	No. Of	0.00 0.00
BMCT.	days / per week	Semester 310 10 2021 To Date:
,	class allotted:-	No. Of weeks:- Of topo of Date. 18 1011 22
	anoffed:-	
Week		
VVCEN	Class day	Theory/ Practical Topics :
0	1st	Stone;
CH-1	05/10/2021	Classification of rock, wer of Hone, noting
	2nd	
FIRST	3rd	Sualary of good building stone
	07 10 2071 4th	Dressing of stone
	4th 08/10/2021	
	5th	Characteristics of different types of stones
:	1st	
C 14 -2	21/10/2021	Brick Earth! Defination and composition
<u> </u>	2nd	Brick marking 1- PreParation of baick canth
SECOND	3rd 2021	Moulding, drying Burning in Killy,
	26/10/2021	Modular bricks Occupation of Bricks I size Anadistioned and
CH-3.	4th 97/10/2021	Cement, Monton Concrete + Tyles of Cements;
	5th .	Brick making! - PreParation of brick centh Moulding, drying Burning in Killy. Classification of Bricks, size Anadistional and Modular bricks, Qualitical of good build, brick Cement, montan Concrete; Types of Cements, Propenties of Cements, Manufacturing of Cement
	22000	-
	1st	Importance and application of bleneted cement
	2nd	With fly ash and blast Furnage slag.
TUIDO	29/10/2021	Mondon: Defination and types of monday.
THIRD	3rd 02/11/20n	Sources and classification of randibulky
	4111	
8	03/11/2021	referrer. gravel, Morrham and flyathaydiffer bulging
	1st	oncrete: Defination and Composition-water
CH-4	2nd 2021 n	taggregated minumy, mechanical properties and greatly
	09/11/2071 0.	there Construction material: Tember Classifiction
ORTH	3rd 11 2 8	oncrete: Defination and Composition-waterant istion-work ability, mechanical properties and growing taggregates, minum planting comparty and coming there construction material!—Tember Classification and structure of timber. easoning of tember— Importance,
	10/11/2011 8 4th 0	1 To the state of
1	1/11/2021	honar tenshich of good timber,
	5th	

Discipline	Semester	Name of the teaching faculty:-
Subject.	No. Of days / per week class allotted:-	Semester from date: No. Of weeks:-
Week	Class day	Theory/ Practical Topics :
FIRST Ch-5	11 11/02	Clay Products and netae fory Materials! Tiles lenacotta parcelain glazing Diton and Steel: - Wes of Cast iton, wrought suntace Protective Materials: - Composition of Paints, enamels, variables. Types and when of Sunface Protective Materials like paints, Enamels variables Distempens. Emultion french position and wax Polish.
ECOND	23/11/2021 2nd 24/11/2021 3rd	Different Component & Of a building
	4th 26/11/2029 5th	Foundations: Concept of foundation and rd'x
	50/11/2021	Types of foundation: - Shallow and deep
HIRD 3	1/12/2021 31	Pread toundation for soll have to not defail of
CH-3 4		2011 Law notation and Induced of contracte block 2011 Law notation of pile to undation of the en e critectorists Lined; of installation based on materials tender in an all the mason my south. Purpose of walls Classicular Walls - 1000 be oning, non bearing, non-long tennograals networks.
1s 6.7 2n 6.7 8TH 3rd 4th	st	assification of wall-load bearing mon-load bearing with retaining walls. brick stone sain forced brick inforced Converts, frelate to and solid converts, order partition walls. Custom they and best of brick and solden partition wall, need to be brick and.
6 5th	12/204 12	nd-Meaning and neverthy-English bond for 1812 ith ith ith reall 'Tix and regard angled connect y unclif on the connect of the connect of the connection of

Vecinlin		THE PARTY OF THE P
rscipline	Semester	-: LESSON PLAN:-
oject.	No. Of	
	days / per week	Semester 8-60
	class	from date:01/10/2) No. Of weeks: 18/01/22
	allotted:-	No. Of weeks:-
eek	Class day	Theory/ Practical Topics :
		Theory, Fractical Topics :
	1st	A
	14/12/2021	Stone Masonny). Olossary of length- strang course, combelico ysice block -in-course gradiating, moud dings, templates throating. Through stones, paratet coping, pasastor and buttoness. Doors, windows And Tensels! - alossary of termsused con doors and windows.
	2nd	Gloshary of lemmi! - Atring course, combe, comperconnice
IRST	15/12/2031	block -in 2 counte grounding, Moud dings, templater in roading.
11/21	3rd	Doors, windows And Tendels! - a l'ossiany of termisused
	16/12/2021 4th	en doons and windows.
	21/12/2021	Doors! - Different yires of doors.
	5th	
	1st	window- Different types of windows.
	22/12/2021	Purpose of we of atther and lintely.
	2nd	floors, Kooth and Stain - Colo Many of Lenns, Types of
	23/12/204 3rd	De de la landa de mant Trible affecte
SECOND	24/12/2021	Control t and time by at floor explored trungly
	4th	Stain !- Gloss on of tongs on the of Concept 112
	Dx/12/2071	concept and function of flat priched hill ped ad simulation: Gloss as of terms, typics of feets concept winder and my newel, balutter, my estade
	5th	
	1st	romboy to Del of Atamoyer- Anight Hight, day regged, open well, quarientum, half turn, spranal Hon
	29/12/2021	regged, open well, marientum, naxt turin, station ston
	2nd	protective, De Conative finished, Damp and Termide - elastomy - purpose - Types of plattony, types of stattens. finished: bould finish, rough cut soemth cutt sand faced. proponding of mandays ared to additionent, plattony,
	30/12/2:07/	reneshed - bould froigh, rough cut seemth cut and faced.
THIRD	3rd	indpondion of monday area to a different, Heat our
	31 12 20 21 4th	preparation of boundar techniqued of players and
	04/0//2022.	of Dyending and a house of the best of the second of
	5th	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1st 9	painting - objectives - methods of painting new ord old way furfaces, wood sunfaces and metal sunface. Shote washing: Colour washing - pistempering- enternal and enternal walls.
	02/01/2000	old wal furtal Ribney palnoting on medal.
	2nd \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Shartennal and endormal . Lall
0.0711		and entitle the state of the st
ORTH	3rd 07/6/2072 F	Damps and Termale proofing materials, and
		method.
	111 61/212	HELLI BOUNDARY & CHOOL & CHOOL &
	5th	
		I

Discipline	Comme		8
	Semester	Name of the teaching faculty:-	
Subject.	No. Of		
	days / per week	Semester	
	class	from date: To Date:	
	allotted:-	No. Of weeks:-	
	anotteu		
Week	Class day	Theory (Dury 1) - 17	
		Theory/ Practical Topics :	
	1st	(near hus) diagram	
	12/0//2012	Audit of Rhengy Management and Rhengy	
	2nd	Green buildings, Energy Management and Energy. Audret of building & project	
F15.0-	13/01/2022	Onto de la ofe	
FIRST	3rd	2 ntrodue dio of oneen building	
`	11/0/12/20	Concern to Con-	
	4th	Concert of meentailding.	
	18 01/2020	Propoducation of a	
	5th	Endnodulation of Energy management and ency	
	1st		
-	19/01/2022	Λα	
	2nd	Acons of energy management of building	
	20/01/2027	Turnet D	
SECOND	3rd	Typed of energy Aucht, Response everyand,	
	21/61/2022		
	4th	Energy surveying and Audit nepond	
	e 3 1	Series of the se	
	5th	7	
	1st	4.	
	0.1		
	2nd	1 Self-a	
THIRD	2.1	Towns of the	
	3rd	of the state of th	
	4th	act the man weeth of	
	4111	Old Find Comment of Find Comme	
	5th	Way Way	
	3111	A Land County Co	
	1st	444	
		6-12h	
	2nd		
0.07			
ORTH	3rd		
-	4.1	•	
	4th		
	5th		-
	Jul		

-: LESSON PLAN: 20-21 - 2022

	Ç.	-: LESSON PLAN: 20-21
Discipline	Semester	Name of the teaching faculty: Laxmpriya Crainayak
Subject. Estimating — I	No. Of days / per week class allotted:-	Semester 3 nd from date: 0 / 10/2021 To Date: 18/0/12022 No. Of weeks:-
Week	Class day	Theory/ Practical Topics :
CH-1	1st 0 .10.21	Introduction class
FIRST	2nd 04.10.2) 3rd 08.10.21 4th 69.10.21	Types of estimates, Ptrinth arrea
	5th 20.1021	Accuracy of Measurement for different 1/2 Measurement
CH 2	2nd & 2.10.21 3rd & 10.21	Doubt clearning class. Shortwall long wall method and contre line method Practice
	4th 29 (0.2) 5th 20 (0.2)	plastering, white washing, Painting etc.
THIRD -	2nd 03 11:21 2nd 03 11:21 3rd 05 11:21	Multeplying factor for painting of doors and window. Detailed estimate of single storged flotroof
	4th 06:11:21 5th 08:11:21	Practice: RCC 1700f slab with leak proof treatment over H. Preactice
ORTH .	2nd 12.11.21 3rd 13.11.21	It including staincase and munity room Practice
	4th 15.11.21 5th 17.11.21	Doubt yearing your class test

Disciplin	ne Semester	Name of the teaching faculty:-	ce
Subject.	No. Of days / per wee class allotted:-	Semester	
Week	Class day	Theory/ Practical Topics :	
CH-9	3 1st 20. 11. 21	Analysis of rade for cement concrete	
	2nd 22.11.21	brick Masonaury in cement mordance.	
FIRST	3rd 24.11.81	laderite stone mosonary to coment mortan	
	4th 2611121	cement plaster	
	5th 271121	white washing	
	1st 291121	o	
	2nd 01:12:21	Artificial Stone flooring	
SECOND	3rd 03.12.21	Pile flooring	
	4th 04:12.21	Rcc with centering and shuttering	
	5th 06.12.21	Reinforcing Steel	
	1st 08.18.81	painting of doors and windows of offer	
	2nd 10 12 21	calculate of lead, lift	
HIRD .	3rd 11.12.21	Conveyence Chargers,	,
	4th 13.18.8)	Royality of material, etc as per onina pur	
	5th 15 12-Q)	Abstract of cost of estimate.	
¥	1st 14.12.21	Practice	
	2nd (8, (2, 2)	•	
RTH .	3rd 20 12.21	Doubt Cleaning you	
	4th 22.12.21	Kaluation-value and cost	
	5th	Screep volue, salvage value assessed value, sinking rund	

		THE COUNTY A 22 COUNTY
oiscipline	Semester	Name of the teaching faculty:-
Subject.	No. Of days / per week class allotted:-	Semester 3rd from date: 01/10/21 No. Of weeks:-
Week	Class day	Theory/ Practical Topics :
FIRST	21/12.21 2nd 24.12.21	depreciation and obsolpsie. methods of Valuation.
	3rd 29.12.21	Practice
	4th 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
C14-4	1st 05.01.23	Administrative set dept. in state sure scentiments.
SECOND	2nd 07.01.22 3rd 03.01.22	buttes and nessons stuty of Engineerns and different position/ 1 ever,
	4th 10.0123	· Continue
	5th 12:01:21	Doub cleating class
	1st 15-0121	Revision
		class test.
FORTH	3rd	(See In
	5th	HOD, CIVIL EDGS.
	1st	The Institute of Lines
	2nd	Corting of the Control of the Contro
	3rd	K Hadapa
	4th	
	5th	