LESSON PLAN FOR WINTER SESSION (2022-23)

ECHNOLO OURSE CO EMESTER ERIODS/M OTAL PER WEEK I Sept. 3rd Week Oct. 1st Week	OGY ODE: TH R: 3 RD WEEK: 5 RIODS:65 PERIODS 1 2 3 4 5 1 2 3 4 5	UNITS 1 of Part A 1 of Part A 1 of Part A 2 of Part A 2 of Part A 2 of Part A 2 of Part A	Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	f stone and their uses k earth, Moulding, Drying qualities of good building bricks	1. Stone 2.1			
Sept. 3rd Week Oct. 1st Week	CODE: TH R: 3 RD WEEK: 5 RIODS:65 PERIODS 1 2 3 4 5 1 2 3 4 5	UNITS 1 of Part A 1 of Part A 1 of Part A 1 of Part A 2 of Part A 2 of Part A 2 of Part A 2 of Part A	1.1 Classification of rock, uses of stone 1.2 Qualities of good building stone 1.3 Dressing of stone 1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	TOPICS e, natural bed of stone f stone and their uses ek earth, Moulding, Drying qualities of good building bricks				
SEMESTER PERIODS/M FOTAL PER WEEK I Sept. 3rd Week Sept. 4th Week Oct. 1st Week	R: 3 RD WEEK: 5 RIODS:65 PERIODS 1 2 3 4 5 1 2 3 4 5	UNITS 1 of Part A 1 of Part A 1 of Part A 1 of Part A 2 of Part A 2 of Part A 2 of Part A 2 of Part A	1.1 Classification of rock, uses of stone 1.2 Qualities of good building stone 1.3 Dressing of stone 1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	TOPICS e, natural bed of stone f stone and their uses ek earth, Moulding, Drying qualities of good building bricks				
Sept. 4th Week Oct. 1st Week Oct. 2nd	WEEK: 5 RIODS:65 PERIODS 1 2 3 4 5 1 2 3 4 5	1 of Part A 1 of Part A 1 of Part A 2 of Part A	1.1 Classification of rock, uses of stone 1.2 Qualities of good building stone 1.3 Dressing of stone 1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	f stone and their uses k earth, Moulding, Drying qualities of good building bricks				
Sept. 3rd Week Sept. 4th Week Oct. 1st Week	RIODS:65 PERIODS 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5	1 of Part A 1 of Part A 1 of Part A 2 of Part A	1.1 Classification of rock, uses of stone 1.2 Qualities of good building stone 1.3 Dressing of stone 1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	f stone and their uses k earth, Moulding, Drying qualities of good building bricks				
Sept. 3rd Week Sept. 4th Week Oct. 1st Week	1 2 3 4 5 1 2 3 4 5	1 of Part A 1 of Part A 1 of Part A 2 of Part A	1.1 Classification of rock, uses of stone 1.2 Qualities of good building stone 1.3 Dressing of stone 1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	f stone and their uses k earth, Moulding, Drying qualities of good building bricks				
Sept. 3rd Week Sept. 4th Week Oct. 1st Week	1 2 3 4 5 1 2 3 4 5	1 of Part A 1 of Part A 1 of Part A 2 of Part A	1.1 Classification of rock, uses of stone 1.2 Qualities of good building stone 1.3 Dressing of stone 1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	f stone and their uses k earth, Moulding, Drying qualities of good building bricks				
Sept. 4th Week Oct. 1st Week Oct. 2nd	3 4 5 1 2 3 4 5	1 of Part A 1 of Part A 2 of Part A	1.3 Dressing of stone 1.4 Characteristics of different types of the composition 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	ck earth, Moulding, Drying qualities of good building bricks	2.1			
Sept. 4th Week Oct. 1st Week Oct. 2nd	1 2 3 4 5	1 of Part A 2 of Part A	1.4 Characteristics of different types of 2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	ck earth, Moulding, Drying qualities of good building bricks	2.1			
Week Oct. 1st Week Oct. 2nd	5 1 2 3 4 5	2 of Part A	2. Brick Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	ck earth, Moulding, Drying qualities of good building bricks	2.1			
Week Oct. 1st Week Oct. 2nd	1 2 3 4 5	2 of Part A 2 of Part A 2 of Part A 2 of Part A	Brick earth – its composition 2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	qualities of good building bricks	2.1			
Week Oct. 1st Week Oct. 2nd	2 3 4 5	2 of Part A 2 of Part A 2 of Part A 2 of Part A	2.2 Brick making – Preparation of brick Burning in kilns (continuous Process) 2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	qualities of good building bricks				
Week Oct. 1st Week Oct. 2nd	3 4 5	2 of Part A	2.3 Classification of bricks Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	qualities of good building bricks				
Week Oct. 1st Week Oct. 2nd	1 2 3	2 of Part A	Size of traditional and modular bricks, 3. Cement, Mortar and Concrete	qualities of good building bricks	Commence of the second			
Oct. 1st Week	1 2 3	2 of Part A 3 of Part A	3. Cement, Mortar and Concrete	qualities of good building bricks				
Week Oct. 2nd	1 2 3	3 of Part A	3. Cement, Mortar and Concrete					
Week Oct. 2nd	3	A TOTAL OF THE	I ement I Vines of coments	of Part A 3. Cement, Mortar and Concrete				
Week Oct. 2nd	3		Centent. Types of centents					
Week Oct. 2nd	3							
Oct. 2nd		Puja Ho	lidays					
	7	J		요. 회에도 기계 기계 그리고 하는 것이 되었다.				
	5							
	1	3 of Part A	Properties of cements					
	2		Manufacturing of cement					
Week	3		3.2 Importance and application of blended cement with fly ash and blast furnace slag					
_	4	3 of Part A	3.3 Mortar: Definition and types of mortar					
	5	3 of Part A	3.4 Sources and classification of sand, Bulking of sand					
	1	3 of Part A	3.5 Use of gravel, morrum and fly ash as different building material					
Oct. 3rd	2	3 of Part A	3.6 Concrete: Definition and composi	tion-Water cement ratio- Workability,				
Week	3	3 of Part A	Mechanical properties of Concrete.					
-	4		Grading of aggregates, mixing, placin	ng of Concrete				
	5		Compacting and curing of concrete					
	1		4. Other Construction Materials	Chinh	4.1			
0-11	2	4 of Part A	Timber: Classification and Structure 6 4.2 Seasoning of timber – Importance Characteristics of good timber	of tunoer	4.3			
Oct. 4th Week	3	4 of Part A	4.3 Clay products and refractory mate	erials - Definition and Classification.				
	4	4 of Part A	4.4 Properties and uses of refractory	materials- tiles, terracotta, porcelain glazing	120/10			
	5		4.5 Iron and Steel: Uses of cast iron,		and the same			
	1		5. Surface Protective Materials Composition of Paints, enamels, varn		5.1			
	2	5 of Part A	5.2 Types and uses of surface protect	ive materials like Paints, Enamels, Varnishes, Distempers	Emulsion, French			
Nov. 1st	3		Part B - CONSTRUCTION TECH	INOLOGY	1			
Week		1 of Part B	Introduction		1.1			
	4	1 of Part B	1.2 Different components of a building					
	5	1 of Part B	1.3 Site investigation - objectives, si	te reconnaissance and explorations				
	1	2 of Part B	2. Foundations Concept of foundation and its purpos	se · 2	2.1 2.2 Types of			
Nov. 2nd		2 - CP - + P	foundations – shallow and deep 2.3 Shallow foundation-construction	11. 11. 6.0. 16. 14. 6				

**** [3	2 of Part B	Thumb rules for depth and width of foundation and thickness of concrete block
-	4	2 of Part B	2.4 Deep foundations: Pile foundations-their suitability
	5	2 of Part B	Classification of piles based on materials, function and method of installation
Nov. 3rd - Week -	1	-	Internal Assessment Exam
	2	3 of Part B	3.Walls & Masonry Works
			Purpose of walls 3.2 Classification of walls - load bearing, non-load bearing walls, retaining walls.
	3	3 of Part B	3.3 Classification of walls as per materials of construction: brick, stone, reinforced brick, reinforced concrete, precase
	4	3 of Part B	hollow and solid concrete block and composite masonry walls (Concept Only).
	5	3 of Part B	3.4 Partition Walls: Suitability and uses of brick and wooden partition walls
Nov. 4th Week	1	3 of Part B	3.5 Brick masonry : Definition of different terms
	2	3 of Part B	3.6 Bond – meaning and necessity: English bond for land 1-1/2 Brick thick walls. T, X and right angled corner junctions. Thickness for land 1-1/2 brick square pillars in English bond
	3	3 of Part B	3.7 Stone Masonry:
			Glossary of terms –String course, corbel, cornice, block-in-course, grouting, mouldings, templates, throating, through stones, parapet, coping, pilaster and buttess
			4. Doors, Windows And Lintels
	4	4 of Part B	Glossary of terms used in doors and windows 4.2
			Chossary of terms used in doors and windows
-	5	4 of Part B	Doors – different types of doors 4.3 Windows – different types of windows
1			4.4 Purpose of use of arches and lintels
-			5. Floors, Roofs and Stairs 5.1
	1	5 of Part B	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 (Concept only)
t	2	5 of Part B	5.2 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs
Dec. 1st	3	5 of Part B	5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case,
Week			
WCCK	4	5 of Part B	hand rail, nosing, head room, mumty room. 5.4 Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical
			3.4 various types of star case – su aight fright, dog regged, open went, quarter turn, nurr turn (1888)
			stairs), bifurcated stair, spiral stair, cantilever stair, tread riser stair. 6. Protective, Decorative Finishes, Damp and Termite Proofing 6.1
	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 etc.
			6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing.
Dec. 2nd Week	2		6.3 Pointing – purpose – Types of pointing
		0 01 Fait B	6.4 Painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – powder
	3	6 of Part B	coating and spray painting on metal surfaces.
		(af Daniel D	6.5 White washing – Colour washing – Distempering – internal and external walls.
	4		6.6 Damp and Termite proofing – Materials and Methods.
	5	6 of Part B	
	1	7 of Part B	7. Green Buildings, Energy Management and Energy Audit Of Buildings & Project
Dec. 3rd Week	2	7 of Part B	7.1 Concept of green building 7.2 Introduction to Energy Management and Energy Audit of Buildings.
			7.3 Aims of energy management of buildings.
	3	7 of Part B	7.4 Types of energy audit, Response energy audit questionnaire
			7.5 Energy surveying and audit report
_	4		Doubt Clearing Class & Previous year question Paper discussion.
1.00	5	*	Doubt Clearing Class & Previous year question Paper discussion.

Concern faculty
Signature
CI

HOD Civil engineering

Académic Coordinator GP Nabarangpur