LESSON PLAN FOR WINTER SESSION (2024-25)

		ENGINEERIN	RIALS AND CONSTRUCTIONS	NAME OF THE FACULTY: AMLAN MOHANTY	
ECHNOL		DING MATER	CALS AND CONSTRUCTIONS	SESSION: 2024-25	
	ODE: TH.3			DATE: 01/07/24 To 08/11/25	THE REAL PROPERTY.
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	RIODS:75				
WEEK	PERIODS	UNITS		TOPICS	
July 1st Week	1	1 of Part A	Part A - BUILDING MATERIAL 1. Stone 1.1 Classification of rock, uses of stone, natural bed of stone		
	2	1 of Part A	1.2 Qualities of good building stone		
	3	1 of Part A	1.3 Dressing of stone		
	4	1 of Part A	1.4 Characteristics of different types	of stone and their uses	
	5	2 of Part A	2. Brick 2.1 Brick earth – its composition		
July, 2nd Week	6	2 of Part A	2.2 Brick making - Preparation of br		
	7	2 of Part A	Burning in kilns (continuous Process	5)	
	8	2 of Part A	2.3 Classification of bricks	Vol 6 4 building briefs	
	9	2 of Part A	Size of traditional and modular bricks, qualities of good building bricks 3.1		
	10	3 of Part A	3. Cement, Mortar and Concrete Cement: Types of cements		
July 3rd Week	11	3 of Part A	Properties of cements		
	12	3 of Part A	Properties of cements		HARRIE STATE
	13	3 of Part A	Manufacturing of cement		
	14	3 of Part A	Manufacturing of cement 3.2 Importance and application of blended cement with fly ash and blast furnace slag		
July 4th		3 of Part A	3.2 Importance and application of b	morter	
	16	3 of Part A	3.3 Mortar: Definition and types of mortar 3.4 Sources and classification of sand, Bulking of sand		
Week	17	3 of Part A	3.4 Sources and classification of sand, Bulking of sand 3.5 Use of gravel, morrum and fly ash as different building material		
	19	3 of Part A	3.5 Use of gravel, morrum and fly ash as different building material		
	20	3 of Part A	3.6 Concrete: Definition and compo	sition- Water cement ratio- Workability,	
August 1st Week	21	3 of Part A		osition- Water cement ratio- Workability,	
	22	3 of Part A	Mechanical properties of Concrete.		
	23	3 of Part A	Grading of aggregates, mixing, place	ring of Concrete	
	24	3 of Part A	Compacting and curing of concrete		
August. 2nd Week	25	4 of Part A	4. Other Construction Materials Timber: Classification and Structur	re of timber	4.1
	26	4 of Part A	4.2 Seasoning of timber – Important Characteristics of good timber		
	27	4 of Part A		aterials – Definition and Classification.	
	28	4 of Part A	4.4 Properties and uses of refractor	y materials- tiles, terracotta, porcelain glazing	THE RESERVE
	29	4 of Part A	4.5 Iron and Steel: Uses of cast iron	n, wrought iron, mild steel and tor steel	5.1
August3rd Week	30	5 of Part A	5. Surface Protective Materials Composition of Paints, enamels, ve		
	31	5 of Part A	5.2 Types and uses of surface prote	ective materials like Paints, Enamels, Varnishes, Distempers, Emuls	ion, French
	32	1 of Part B	Part B - CONSTRUCTION TEC	CHNOLOGY	1.1
	33	1 of Part B	1.2 Different components of a buil		
	34	1 of Part B	1.3 Site investigation - objectives,	site reconnaissance and explorations	2.1
August 4th Week	35	2 of Part B	2. Foundations Concept of foundation and its purp	oose	2.2
	NEW AND DE	MILLEN AND AND A	Types of foundations - shallow an	onal details of : Spread foundations for walls	
	36	2 of Part B	Thursday rules for death and width	of foundation and thickness of concrete block	
	37	2 of Part B	2.4 Deep foundations: Pile founda	tions-their suitability	
	38	2 of Part B	Classification of piles based on m	aterials, function and method of installation	No. 12 Person
	39	2 of Part B		anterials, restriction and interior	
Sept. 1st Week	41	3 of Part B	Internal Assessment Exam 3. Walls & Masonry Works		
			3.1 Purpose of walls	pearing, non-load bearing walls, retaining walls.	
	42	3 of Part B	3.3 Classification of walls as per I	materials of construction: brick, stone, reinforced brick, reinforced	concrete,
	133333		precast, hollow and solid concrete	block and composite masonry walls (Concept Only). Id uses of brick and wooden partition walls	
	44	3 of Part B			

FEEK	PERIODS	UNITS	TOPICS	
ept 2nd Week	45	3 of Part B	3.5 Brick masonry : Definition of different terms	
	46	3 of Part B	3.5 Brick masonry: Definition of different terms 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	
	47	3 of Part B	3.7 Stone Masonry: 3.8 Glossary of terms –String course, corbel, cornice, block-in-course, grouting, mouldings, templates, throating,	
	48		through stones, paraget, coping, pilaster and buttess 4.1 4. Doors, Windows And Lintels	
		4 of Part B	Glossary of terms used in doors and windows	
	49	4 of Part B	4.2 Doors – different types of doors 4.3 Windows – different types of windows 4.4 Purpose of use of arches and lintels 5.1	
Sept 3rd Week	50			
		5 of Part B	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 (Concept only) 5.1	
	51	5 of Part B	5. Floors, Roofs and Stairs Floors: Glossary of terms, Types of floor finishes – cast-in-situ, concrete flooring(monolithic, bonded), terrazzo tile Floors: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs 5.2 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs	
	52	5 of Part B	5.2 Roofs. Glossary of terms, Types of Tools, concept and talleter rise tread width of stair case,	
	53	5 of Part B	5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing, head room, mumty room.	
	54	6 of Part B	5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newer, bardster, 1855, and 1875.	
	55	6 of Part B	A Various types of stair case - straight flight, dog legged, open well, quarter turn, half turn (newer and geometric	
Sept. 4th Week	56	6 of Part B	5.4 Various types of stair case - straight flight, dog legged, open well, quarter turn, half turn (newel and geometric	
		6 of Part B	6. Protective, Decorative Finishes, Damp and Terrifice Problems Plastering – purpose – Types of plastering, Types of plaster finishes – Grit finish, rough cast, smooth cast, sand	
	58	6 of Part B	6. Protective, Decorative Finishes, Damp and Termite Proofing	
		S MAGNETA	Plastering – purpose – Types of plastering, Types of plaster thinses 6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing.	
	59	6 of Part H	6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing. 6.2 Proportion of mortars used for different plasters, preparation of mortars, techniques of plastering and curing.	
	60	6 of Part B		
	61	6 of Part B	6.3 Pointing – purpose – Types of pointing	
	62	6 of Part B	6.4 Painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – power of the painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – power of the painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – power of the painting – objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – power of the painting of the painting of the painting new and old wall surfaces, wood surface and metal surfaces – power of the painting of the pai	
	63	6 of Part B	6.4 Painting – objectives – method of painting new and old wan surfaces, wood sartage	
	64			
Oct. 2nd Week	65	700	Puja Holidays	
	66	ALL SHOW HELD		
	67		Discovering internal and external walls	
Oct. 3rd Week	68	6 of Part B	6.5 White washing - Colour washing - Distempering - internal and external walls.	
	69	6 of Part B	6.5 White washing - Colour washing - Distempering - internal and external walls. 6.5 White washing - Colour washing - Distempering - internal and external walls.	
	70	6 of Part B	6.6 Damp and Termite proofing – Materials and Methods.	
	71	6 of Part B	6.6 Damp and Termite proofing - Materials and Methods.	
	72	1	REVISION	
Oct 4th Week	73	7 of Part B	7. Green Buildings, Energy Management and Energy Audit of Buildings & Project	
	74	7 of Part B	7.2 Introduction to Energy Management and Energy Audit of Buildings.	
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	15	A STATE OF THE PARTY OF THE PAR	7.4 Types of energy audit, Response energy audit questionnaire	
	76		Common and the Personse energy audit questionnaire	
	77	Doubt Clearing Class & Previous year question raper discussion		
Nov 1st Week	78		Doubt Clearing Class & Previous year question Paper discussion.	
	79		D. A. Clearing Class & Previous year question Paper discussion.	
	00		Doubt Clearing Class & Previous year question Paper discussion.	
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Week	81		Doubt Clearing Class & Previous year question Paper discussion.	

Concern faculty
Signature

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