

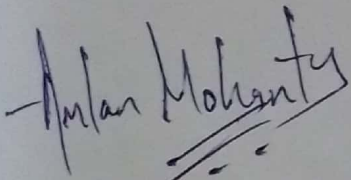
LESSON PLAN FOR SUMMER SESSION (2023-24)	
PROGRAMME : CIVIL ENGINEERING	NAME OF THE FACULTY: MR. AMLAN MOHANTY
COURSE NAME : ACT&E	SESSION : 2023-24
COURSE CODE : TH.3	DATE : 16/01/24 To 26/04/24
SEMESTER : 6TH	
PERIODS/WEEK: 4	
TOTAL PERIODS:60	

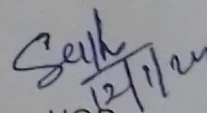
WEEK	CLASS	TOPICS
Jan. 3rd Week	1	1. Advanced construction materials 1.1 Fiber and Plastic - Types of Fibers - steel, Carbon, Glass Fibers - Types of Plastics- PVC, RPVC, HDPE, FRP, GRP etc
	2	Use of fibers as construction material, properties of Fibers
	3	Colored plastic sheets. Use of plastic as construction material.
	4	1.2 Artificial Timbers Properties and uses of artificial timber
Jan. 4th Week	5	Types of artificial timber available in market, strength of artificial timber.
	6	1.3 Miscellaneous materials – Properties and uses of acoustics materials.
	7	wall claddings, plaster boards, micro-silica, artificial sand, bonding agents, adhesives etc.
	8	SIMPLE TEST (Revision & Doubt class)
Feb. 1st Week	9	2. Prefabrication 2.1 Introduction, necessity and scope of prefabrication of buildings
	10	history of prefabrication, current uses of prefabrication
	11	Types of prefabricated systems, classification of prefabrication, advantages and disadvantages of prefabrication,

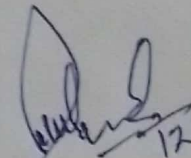
	12	2.2 The theory and process of prefabrication, design principle of prefabricated systems, types of prefabricated elements, modular coordination .
Feb. 2ndWeek	13	2.3 Indian standard recommendation for modular planning.
	14	SIMPLE TEST (Revision & Doubt class)
	15	3.Earthquake Resistant Constructio 3.1 Building Configuration
	16	3.2 Lateral Load resisting structures
Feb. 3rdWeek	17	3.3 Building characteristics
	18	3.4 Effect of structural irregularities-vertical irregularities, plan configuration problems
	19	3.4 Effect of structural irregularities-vertical irregularities, plan configuration problems
	20	3.5 Safety consideration during additional construction and alteration of existing Buildings
Feb. 4th Week	21	3.5 Safety consideration during additional construction and alteration of existing Buildings
	22	3.6 Additional strengthening measures in masonry building-corner reinforcement,lintel band, sill band ,plinth band, roof band, gable band etc
	23	3.6 Additional strengthening measures in masonry building-corner reinforcement,lintel band, sill band ,plinth band, roof band, gable band etc
	24	SIMPLE TEST (Revision & Doubt class)
March 1st Week	25	4.Retrofitting of Structures 4.1 Seismic retrofitting of reinforced concrete buildings
	26	4.2 Sources of weakness in RC frame building
	27	4.3 Classification of retrofitting techniques and their uses
	28	SIMPLE TEST (Revision & Doubt class)
March 2nd Week	29	5.1 Cold Water Distribution in high rise building, lay out of installation
	30	5.2 Hot water supply – General principles for central plants-layout
	31	5.3 Sanitation –soil and waste water installation in high rise buildings

	32	5.3 Sanitation –soil and waste water installation in high rise buildings
March 3rd Week	33	5.4 Electrical services – i) requirements in high rise buildings ii) Layout of wiring - types of wiring iii) Fuses and their types iv) Earthing and their uses
	34	5.4 Electrical services – i) requirements in high rise buildings ii) Layout of wiring - types of wiring iii) Fuses and their types iv) Earthing and their uses
	35	5.5 Lighting – Requirement of lighting, Measurement of light intensity
	36	5.5 Lighting – Requirement of lighting, Measurement of light intensity
March 4th Week	37	5.6 Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation
	38	5.6 Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation
	39	5.7 Mechanical Services- Lifts, Escalator, Elevators – types and uses
	40	5.7 Mechanical Services- Lifts, Escalator, Elevators – types and uses
March 5th Week	41	Revision & Doubt class
	42	Internal Assessment
	43	6. Construction and earth moving equipments –6.1 Planning and selection of construction equipments
	44	6. Construction and earth moving equipments –6.1 Planning and selection of construction equipments
April 1st Week	45	6.2 Study on earth moving equipments like drag line, tractor, bulldozer, Power shovel
	46	6.2 Study on earth moving equipments like drag line, tractor, bulldozer, Power shovel
	47	6.3 Study and uses of compacting equipments like tamping rollers, Smooth wheel rollers, Pneumatic tired rollers and vibrating compactors
	48	6.3 Study and uses of compacting equipments like tamping rollers, Smooth wheel rollers, Pneumatic tired rollers and vibrating compactors
April 2nd Week	49	6.4 Owning and operating cost – problems.
	50	6.4 Owning and operating cost – problems
	51	Revision & Doubt class

	52	UNIT TEST
April 3rd Week	53	7. Soil reinforcing techniques 7.1 Necessity of soil reinforcing.
	54	7.2 Use wire mesh and geo-synthetics.
	55	7.3 Strengthening of embankments, Slope stabilization in cutting and embankments by soil reinforcing techniques
	56	7.3 Strengthening of embankments, Slope stabilization in cutting and embankments by soil reinforcing techniques
April 4th week	57	Revision & Doubt class
	58	Revision & Doubt class
	59	Revision & Doubt class
	60	Revision & Doubt class


Concern faculty


HOD
Civil engineering


12/11/24
Academic Coordinator
GP Nabarangpur