## GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN-2021/22(SUMMER)

Discipline : CIVIL		Semester: 6th		Name of the Teaching Faculty :DAMAYANTI PRADHAN		
Subject : ACT&E(Th.3)		per week class allotted: 04		Semester From date: 10.03.2022 To Date: 28.06.2022		
Month	Week	Day	Unit	Topics		
	2ND	<b>4</b> TH	UNIT-1	Advanced construction materials  1.1 Fibers and Plastics Types of fibers- Steel, Carbon, glass fibers, Use of fibers as construction. Types of plastic.Use of plastic as construction material.		
		5TH		<b>1.2</b> Artificial Timbers - Properties and uses of artificial timber. Types of artificial timber available in market, strength of artificial timber		
		6ТН		1.3 Miscellaneous materials - Properties and uses of acoustics materials, wall claddings, plaster boards, micro-silica, artificial sand, bonding agents, adhesives etc.		
	3RD	1ST		Question and Answer Discussion		
		2ND		Do		
_		3RD		Question Discussion		
MARCH		6ТН	UNIT-2	Prefabrication  2.1 Introduction, necessity and scope of prefabrication of buildings, history of prefabrication, current uses of prefabrication , types of prefabricated systems.		
	4TH	1ST		2.2 The theory and process of prefabrication, design principle of prefabricated systems, types of prefabricated elements, modular coordination		
		2ND 3RD		2.3 Indian standard recommendation for modular planning. Question discussion		
		4TH		Class test-1		
		1ST		Earthquake Resistant Construction		

	l	2ND	UNIT-3	3.1 Building Configuration	
	5TH	3RD		3.2 Lateral Load resisting structures	
		4TH		3.3 Building characteristics	
	2ND	1ST		<b>3.4</b> Effect of structural irregularities-vertical irregularities, plan configuration problems.	
		2ND		3.5 Safety consideration during additional construction and alteration of existing Buildings.	
		3RD		<b>3.6</b> Additional strengthening measures in masonry building-corner reinforcement, lintel band, sill band, plinth band, roof band, gable band etc.	
		4TH		Question and answer Discussion	
APRIL	3RD	3RD		Question and answer Discussion	
API		1ST		Retrofitting of Structures	
	4TH			4.1 Seismic retrofitting of reinforced concrete buildings :	
		2ND	<b>UNIT-4</b>	4.2 -Sources of weakness in RC frame building	
		3RD		4.3 -Classification of retrofitting techniques and their uses	
		4TH		Question and answer Discussion	
		1ST		Building Services	
	5TH			5.1 Cold Water Distribution in high rise building, lay out of installation	
		2ND		5.2 Hot water supply - General principles for central plants-layout	
	1ST	3RD	UNIT-5	5.3 Sanitation -soil and waste water installation in high rise buildings	
		4TH		<b>5.4</b> 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	
	2ND	2ND		5.5 Lighting - Requirement of lighting, Measurement of light intensity	
		3RD		5.6 Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation	
		4TH		INTERNAL	
		2ND		5.7 Mechanical Services- Lifts, Escalator, Elevators - types and uses. Discussion	
			3RD	classes	
_		3RD		<b>6.1</b> Planning and selection of construction equipments	
	_			<b>6.2</b> Study on earth moving equipments like drag line, tractor, bulldozer, Power	

Σ	3RD		UNIT-6	shovel
			UN11-0	<b>6.3</b> Study and uses of compacting equipments like tamping rollers, Smooth
		4TH		wheel rollers, Pneumatic tired rollers and vibrating compactors
				<b>6.4</b> Owning and operating cost – problems. Revision classes
				Coll reinforcion to chairmes
		1ST		Soil reinforcing techniques
		2ND		7.1 Necessity of soil reinforcing.  7.2 Use wire mesh and geo-synthetics
	4TH	ZIND	UNIT-7	<u> </u>
		3RD		<b>7.3</b> Strengthening of embankments, Slope stabilization in cutting and lembankments
		4TH		Revision classes
	5TH	2ND		
	ЭІП			Discussion
	1ST	3RD		Question and Answer Discussion
		4TH		Practice long question and answer
		1ST		Question and Answer Discussion
	2ND	2ND		do
	2140	3RD		Class Test-2
JUNE		4TH		Previous year question answer discssion
	3RD	4TH		do
=		1ST		do
	4711	2ND		Short type questions discussion
	4TH	3RD		do
		4TH		Long question discussion
		1ST		do
	5TH	2ND		do

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