GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN-2020/21(SUMMER)

Discipline : CIVIL ENGG.		Semester: 6th Sem		Name of the Teaching Faculty :DAMAYANTI PRADHAN
Subject : ACT&E(Th.3)		per week class allotted : 04		Semester From date: 05.04.2021 To Date: 30.06.2021
Month	Week	Day	Unit	Topics
APRIL	4TH	1ST	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		1.2 Artificial Timbers – Properties and uses of artificial timber. Types of artificial timber available in market, strength of artificial timber
	5TH	1ST		1.3 Miscellaneous materials – Properties and uses of acoustics materials, wall claddings, plaster boards, micro-silica, artificial sand, bonding agents, adhesives etc.
		3RD		Question and Answer Discussion Do
		5TH		Question Discussion
MAY	2ND	1ST	UNIT-2	Prefabrication 2.1 Introduction, necessity and scope of prefabrication of buildings, history of prefabrication, current uses of prefabrication , types of prefabricated systems.
		3RD		2.2 The theory and process of prefabrication, design principle of prefabricated systems, types of prefabricated elements, modular coordination
		5TH		2.3 Indian standard recommendation for modular planning.

MAY	3RD	1ST	UNIT-2	Question discussion
		3RD		Question discussion
		4TH		Class test-1
	4TH	1ST	UNIT-3	Earthquake Resistant Construction
		131		3.1 Building Configuration
		3RD		3.2 Lateral Load resisting structures
		5TH		3.3 Building characteristics
	5TH 1ST	1ST		3.4 Effect of structural irregularities-vertical irregularities, plan configuration
		5TH		3.5 Safety consideration during additional construction and alteration of existing
		1ST		3.6 Additional strengthening measures in masonry building-corner reinforcement, lintel band, sill band, plinth band, roof band, gable band etc.
		3RD		Question and answer Discussion
				Question and answer Discussion
		5ТН	UNIT-4	Retrofitting of Structures
				4.1 Seismic retrofitting of reinforced concrete buildings :
	2ND	1ST		4.2 -Sources of weakness in RC frame building
		3RD		4.3 -Classification of retrofitting techniques and their uses
		5TH		Question and answer Discussion
ш	3RD	1ST	UNIT-5	Building Services
JUNE				5.1 Cold Water Distribution in high rise building, lay out of installation
=		3RD		5.2 Hot water supply – General principles for central plants-layout
	4TH	5TH		5.3 Sanitation –soil and waste water installation in high rise buildings
		1ST		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
		3RD		5.5 Lighting – Requirement of lighting, Measurement of light intensity
		5ТН		5.6 Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation)
		6ТН		INTERNAL
	5TH	1ST		5.7 Mechanical Services- Lifts, Escalator, Elevators – types and uses.

	5TH	3RD	UNIT-6	6.1 Planning and selection of construction equipments
	3111			6.2 Study on earth moving equipments like drag line, tractor, bulldozer etc.
	1ST	5ТН		6.3 Study and uses of compacting equipments like tamping rollers, Smooth
				wheel rollers, Pneumatic tired rollers and vibrating compactors
		- 1ST		Soil reinforcing techniques
	2ND			7.1 Necessity of soil reinforcing.
		3RD		7.2 Use wire mesh and geo-synthetics
		5TH		7.3 Strengthening of embankments, Slope stabilization in cutting and
				embankments
	3RD	3RD		Revision classes
JULY	3110	5TH	UNIT-7	Discussion
	4ТН	1ST		Question and Answer Discussion
		5TH		Practice long question and answer
	5TH	1ST		Question and Answer Discussion
				do
				Class Test-2
		3RD		Previous year question answer discssion
				do
		5TH		Short type questions discussion
				do
		6ТН		Long question discussion
				do
				Revision previous year questions.