				GANDHI ACADEMY OF TECHNOLOGY AND ENGINEERING		
				DEPARTMENTOFCIVIL ENGINEERING		
				LESSON PLAN		
DISCIPLINE:-CE						
SEMESTER:-6TH FROMDATE:-02.01.2024			2.01.2024	TODATE:-23.04.2024		
Nam	e of Teachin	g Faculty: NIKIT	TA PATRO			
SUBJ	ECT:- ADVAN	ICE CONSTRUCT	TION TECHNIC	QUE & EQUIPMENT		
NO.C	FPERIOD/PI	ERWEEKCLASSA	ALLOTTED:-4			
TOTA	ALNO.OFCLA	SSAVAILABLEIN	ISEM:-60			
SL NO.	WEEK	CLASSDATE	NO. OF CLASS/DAY	TOPICS		
1	Week-01	02.01.2024	1	Advanced construction materials , Fibers and Plastics.		
		03.01.2024	1	Types of fibers- Steel, Carbon, glass fibers, Use of fibers as construction material,		
		04.01.2024	1	properties of Fibers. Types of plastics- PVC, RPVC, HDPE, FRP, GRP etc. Colored plastic sheets.		
		05.01.2024	1	Use of plastic as construction material		
2	Week-02	09.01.2024	1	Artificial Timbers – Properties and uses of artificial timber.		
		10.01.2024	1	Types of artificial timber available in market, strength of artificial timber		
		11.01.2024				
		12.01.2024	1	Miscellaneous materials – Properties		
3	Week-03	16.01.2024	1	Uses of acoustics materials, wall claddings,		
		17.01.2024	1	plaster boards, micro-silica, artificial sand,		
		18.01.2024	1	Bonding agents, adhesives		
		19.01.2024	1	Prefabrication , Introduction		
4	Week-04	23.01.2024		HOLIDAY		
		24.01.2024	1	Necessity and scope of prefabrication of buildings, history of prefabrication,		
		25.01.2024	1	Current uses of prefabrication , types of prefabricated systems		
		26.01.2024		HOLIDAY		
5	Week-05	30.01.2024	1	The theory and process of prefabrication		
	 	31.01.2024	1	Design principle of prefabricated systems, types of prefabricated		
		01.02.2024	1	Elements, modular coordination		

Indian standard recommendation for modular planning

02.02.2024

6 Week-06 06.02.2024 1 Earthquake Resistant Construction		1	Earthquake Resistant Construction		
		07.02.2024	1	Building Configuration ,Lateral Load resisting structures	
		08.02.2024	1	Building characteristics	
		09.02.2024	1	Effect of structural irregularities-vertical irregularities, plan configuration problems	
7	Week-07	13.02.2024	1	Safety consideration during additional construction and alteration of existing Buildings.	
		14.02.2024		HOLIDAY	
		15.02.2024	1	Additional strengthening measures in masonry building-corner reinforcement,	
		16.02.2024	1	lintel band, sill band, plinth band, roof band, gable band	
8	8 Week-08 20.02.2024 1 Ref		1	Retrofitting of Structures	
		21.02.2024	1	Seismic retrofitting of reinforced concrete buildings	
		22.02.2024	1	Sources of weakness in RC frame building	
		23.10.2023	1	Classification of retrofitting techniques	
	Week-09	27.02.2024	1	Retrofitting their uses	
9		28.02.2024	1	Building Services	
		29.02.2024	1	Cold Water Distribution in high rise building, lay out of installation	
		01.03.2024	1	Hot water supply – General principles for central plants-layout	
10	Week-10	05.03.2024		HOLIDAY	
		06.03.2024	1	Sanitation –soil and waste water installation in high rise buildings	
		07.03.2024	1	Electrical services – i) requirements in high rise buildings	
		08.03.2024		HOLIDAY	
11	Week-11	12.03.2024	1	Layout of wiring - types of wiring iii) Fuses and their types	
		13.03.2024	1	Earthing and their uses ,Lighting – Requirement of lighting	
		14.03.2024	1	Measurement of light intensity	
		15.03.2024	1	Ventilation - Methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation	
12	Week-12	Week-12 19.03.2024 1 Mechanical Services- Lifts, Escalator, Elevators		Mechanical Services- Lifts, Escalator, Elevators	
		20.03.2024	1	Types and uses.	

		21.03.2024	1	Construction and earth moving equipments		
		22.03.2024	1	Planning and selection of construction equipments		
13	Week-13	26.03.2024		HOLIDAY		
		27.03.2024	1	Study on earth moving equipments like drag line,		
		28.03.2024	1	Tractor, bulldozer		
		29.03.2024		HOLIDAY		
14	Week-14	02.04.2024	1	Power shovel		
		03.04.2024	1	Study and uses of compacting equipments like tamping rollers,		
		04.04.2024	1	Smooth wheel rollers, Pneumatic tired rollers		
		05.04.2024	1	Vibrating compactors, Owning and operating cost – problems		
15	Week-15	08.04.2024				
		09.04.2024	1	Soil reinforcing techniques		
		10.04.2024		Necessity of soil reinforcing		
		11.04.2024	1	Use wire mesh and geo-synthetics.		
16 Week-16 12.04.2024 1 Strengthening of eml		1	Strengthening of embankments,			
		15.04.2024		HOLIDAY		
16.04.2024			HOLIDAY			
		17.04.2024	1	Slope stabilization in cutting ,		
17	Week-17	18.04.2024	1	embankments by soil reinforcing techniques		