

# BALASORE SCHOOL OF ENGINEERING, BALASORE

LESSON PLAN/SEMESTER:-6th(CIVIL)

SUBJECT:- ACT & EQUIPMENT

NAME OF THE FACULTY :- DEEPALI BARIK

SL. No.	Month /No .of academic days available for the subject	DATE	TOPICS TO BE COVERED
	FEB(5)	23/2/2023	1.1 Fibers and Plastics-
		24/2/2023	Types of fibers- Steel,
		25/2/2023	Carbon,
		27/2/2023	glass fibers,
		28/2/2023	Use of fibers as construction material, properties of Fibers.
	MARCH(23)	1/3/2023	Types of plastics- PVC,
		2/3/2023	RPVC,
		3/3/2023	HDPE,
		4/3/2023	FRP,
		6/3/2023	GRP etc.
		10/3/2023	Colored plastic sheets. Use of plastic as construction material.

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		11/03/2023	1.2 Artificial Timbers – Properties and uses of artificial timber.
		13/03/2023	Types of artificial timber available in market,
		14/03/2023	strength of artificial timber.1.3 Miscellaneous materials
		15/03/2023	Properties and uses of acoustics materials,
		16/03/2023	wall claddings, plaster boards, micro-silica,

	17/03/2023	artificial sand, bonding agents, adhesives etc.
	18/03/2023	2.1 Introduction, necessity and scope of prefabrication of buildings, history of prefabrication, current uses of prefabrication,
	20/03/2023	the theory and process of prefabrication, types of prefabricated systems, classification of prefabrication,
	21/03/2023	advantages and disadvantages of prefabrication, design principle of prefabricated systems,
	22/03/2023	types of prefabricated elements, modular coordination, Indian standard recommendation for modular planning.
	23/03/2023	3.0 Earthquake Resistant Construction i) Building Configuration
	24/03/2023	ii) Lateral Load resisting structures iii) Building characteristics
	25/03/2023	iv) Effect of structural irregularities-vertical irregularities, plan configuration problems.
	27/03/2023	v) Safety consideration during additional construction and alteration of existing Buildings.
	28/03/2023	vi) Additional strengthening measures in masonry building-corner reinforcement,

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		29/03/2023	lintel band, sill band, plinth band.
	APRIL(13)	03/04/2023	, roof band, gable band etc
		04/04/2023	4.0 Retrofitting of Structures Seismic retrofitting of reinforced concrete buildings : i) Sources of weakness in RC frame building
		05/04/2023	ii) Classification of retrofitting techniques and their uses.
		06/03/2023	5.0 Building Service (a) Cold Water Distribution in high rise building, lay out of installation
		10/04/2023	b) Hot water supply – General principles for central plants-layout
		11/04/2023	c) Sanitation –soil and waste water installation in high rise buildings
		12/04/2023	d) Electrical services – i) requirements in high rise buildings

		ii) Layout of wiring - types of wiring
	13/04/2023	iii) Fuses and their types iv) Earthing and their uses
	24/04/2023	CON..
	25/04/2023	e) Lighting – Requirement of lighting, Measurement of light intensity f) Ventilation
	26/04/2023	i) Methods of ventilation – Natural and artificial
	27/04/2023	ii) Systems of ventilation, problems on ventilation
	28/04/2023	g) Mechanical Services- Lifts, Escalator, Elevators – types and uses.

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	MAY(12)	01/05/2023	6.0 Construction and earth moving equipments - a) Planning and selection of construction equipments
		02/05/2023	b) Study on earth moving equipments like drag line,
		03/05/2023	tractor,
		04/05/2023	bulldozer
		5/05/2023	Power shovel
		6/05/2023	c) Study and uses of compacting equipments like tamping rollers
		8/05/2023	Smooth wheel rollers,
		9/05/2023	Pneumatic tired rollers
		10/05/2023	and vibrating compactors d) Owning and operating cost – problems
		11/05/2023	7.1 Necessity of soil reinforcing 7.2 Use wire mesh and geo-synthetics
		12/05/2023	7.3 Strengthening of embankments,
		13/05/2023	Slope stabilization in cutting and embankments by soil reinforcing techniques.

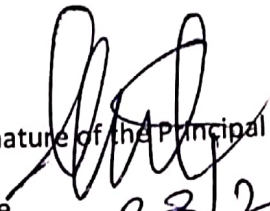
Sino	Month	Units/Chapter To be Covered	Percentage of Coverage
1	FEB	CH-1 (CON...)	15
2	MARCH	CH-1,CH-2,CH-3 (CON...)	35
3	FAPRIL	CH-3,CH-4,CH-5	30
4	MAY	CH-6,CH-7	20

**Brief Summary of the Plan**



Signature of the Faculty

Date 23.2.2023



Signature of the Principal

Date

23/2/23