

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

SUBJECT: ACTE (TH 3)

FACULTY: Er ASHA MISHRA

ACCADEMIC SESSION: 2023-24

SEMESTER: 6TH

SEC: B

Sd/-

H O D (Civil Engg.)

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
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LESSON PLAN

Discipline: Civil Engineering	Semester: 6th (B)		Name of the teaching faculty: Er Asha Mishra
Subject: ACTE	No. of Days/ per week class allotted: 04 periods per week. (Mon, Tue, Thu, Fri)		Semester - From Date: 16/01/2024 To Date: 26/04/2024 No. of weeks: 15 weeks
Week	Class Day	No of period available	Theory Topics
1st	16/01/2024	(1P)	1 ADVANCED CONSTRUCTION MATERIALS 1.1 Fibbers and plastic: -Types of fibres-steel, carbon, glass fibres as construction materials, properties of fibres.
	18/01/2024	(1P)	1.1 Types of plastics - PVC, RPVC, HDPE, FRP, GRP, etc. Coloured plastic sheets. Use of plastic as construction material.
	19/01/2024	(1P)	1.2 Artificial Timber-Properties and uses of artificial timber. Types of artificial timber available in market, strength of artificial timber. 1.3 Miscellaneous Materials-Properties and uses of acoustics materials, wall cladding.
2nd	22/01/2024	(1P)	1.3 plaster boards, micro-silica, artificial sand, bonding agents, adhesives etc.
	25/01/2024	(1P)	2 PREFABRICATIONS 2.1 History of prefabrication, current uses of prefabrication, types of prefabricated systems.
3rd	29/01/2024	(1P)	2.1 Classification of prefabrication, advantages and disadvantages of prefabrication.
	30/01/2024	(1P)	2.2 The theory and process of prefabrication, Design principle of prefabricated systems, types of prefabricated elements.
	01/02/2024	(1P)	2.2 modular coordination.
	02/02/2024	(1P)	2.3 Indian standard recommendation for modular planning.
4th	05/02/2024	(1P)	3 EARTHQUAKE RESISTANT CONSTRUCTION 3.1 Building configuration.
	06/02/2024	(1P)	Monthly Class Test 01

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	08/02/2024	(1P)	3.2 Lateral load resisting structures3 Building characteristics.
	09/02/2024	(1P)	3.3 Building characteristics.
5th	12/02/2024	(1P)	3.4 Effect of structural irregularities-vertical irregularities, plan configuration problems.
	13/02/2024	(1P)	3.5 Safety consideration during additional construction and alteration of existing buildings.
	15/02/2024	(1P)	3.6 Additional strengthening measures in masonry building-corner reinforcement, lintel band, sill band etc.
	16/02/2024	(1P)	4 RETROFITTING OF STRUCTURE 4.1 Seismic retrofitting of reinforced concrete buildings.
6th	19/02/2024	(1P)	4.2 Sources of weakness in RC frame building.
	20/02/2024	(1P)	4.3 classification of retrofitting techniques and their uses.
	22/02/2024	(1P)	5 BUILDING SERVICES 5.1 Cold water distribution in high rise building, layout of installation.
	23/02/2024	(1P)	5.2 Hot water supply -general principles for central plants- layout.
7th	26/02/2024	(1P)	5.3 Sanitation-soil and waste water installation in high rise buildings.
	27/02/2024	(1P)	Monthly Class Test - 02
	29/02/2024	(1P)	5.4 Electrical services- I) requirements in high rise buildings and and
	01/03/2024	(1P)	ii) layout of wiring
8th	04/03/2024	(1P)	iii) fuses and their types
	07/03/2024	(1P)	iv) earthing.
9th	11/03/2024	(1P)	5.5 Lighting.
	12/03/2024	(1P)	5.6 Ventilation.

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	14/03/2024	(1P)	5.7 Mechanical services-lift, escalator, elevators-types and uses.
	15/03/2024	(1P)	6 CONSTRUCTION AND EARTH MOVING EQUIPMENTS
10th	18/03/2024	(1P)	6.1 Planning and selection of construction equipment's.
	19/03/2024	(1P)	6.2 Study on earth moving equipment's.
	21/03/2024	(1P)	6.2 Study on earth moving equipment's.
	22/03/2024	(1P)	6.3 Study and uses of compacting equipment's like tamping rollers, smooth wheel rollers, pneumatic tired rollers and vibrating compactors.
11th	28/03/2024	(1P)	6.4 Owning and operating cost-problems.
12th	02/04/2024	(1P)	INTERNAL ASSESSMENT
	04/04/2024	(1P)	7 SOIL REINFORCING TECHNIQUES
	05/04/2024	(1P)	7.1 Necessity of soil reinforcing.
13th	08/04/2024	(1P)	7.2 Use wire mesh and geo-synthetics.
	09/04/2024	(1P)	7.3 Strengthening of embankments.
	12/04/2024	(1P)	7.3 Slope stabilization in cutting.
14th	15/04/2024	(1P)	7.3 embankments by soil reinforcing techniques.
	16/04/2024	(1P)	Monthly Class Test - 03
	18/04/2024	(1P)	Revision
	19/04/2024	(1P)	Revision
15th	22/04/2024	(1P)	Revision
	23/04/2024	(1P)	Revision
	25/04/2024	(1P)	Previous Year Questions & Answer Discussion
	26/04/2024	(1P)	Previous Year Questions & Answer Discussion