

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

**SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)**



STUDENT'S ATTENDANCE REGISTER

Time	9:05 - 9:55	9:55 - 10:45	10:45 - 11:30		
Day					
MON					
TUES	✓				
WED			✓		
THUR		✓			
FRI	✓				

Year/ Session	2023 (S)
Semester & Branch	6 th ✓ Civil Engg.
Subject with Code	Advanced Construction Techniques & Equipment Th 3.
Name of the Faculty Member	Kiran Devi

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
February			1. Advanced Construction Materials:-
		14/02/23	1.1. Fibers and plastics -
		15/02/23	Types of fibers - steel, Carbon, glass fibers, Use of fibers as construction material, properties of fibers.
		16/02/23	Types of plastics - PVC, RPVC, HDPE, FRP, GRP etc, coloured plastic sheets.
	67/02/23	Use of plastic as construction material.	
February		21/02/23	
		22/02/23	1.2. Artificial Timbers - properties and uses of artificial timbers, Types of artificial timbers available in market, strength of artificial timbers
		23/02/23	
February		24/02/23	1.3. Miscellaneous materials -
		28/02/23	Properties and uses of acoustics materials, wall cladding, plaster boards, micro-silica, artificial sand, bonding agents, adhesives etc.
March		01/03/23	

Signature of the Faculty:

[Signature]

Signature of the Principal/Course Co-ordinator/HOD:

[Signature]
11.2.23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
March			2. Prefabrication : -
		02/03/23	2.1. Introduction, necessity and scope of prefabrication of buildings
		03/03/23	history of prefabrication, current uses of prefabrication
March		07/03/23	types of prefabricated systems, classification of prefabrication, advantages and disadvantages of prefabrication.
		08/03/23	
		09/03/23	
		10/03/23	2.2. The theory and process of prefabrication, design principle of prefabricated systems, types of prefabricated elements, modular coordination.
March		14/03/23	
		15/03/23	2.3. Indian standard recommendations for modular planning.

Signature of the Faculty: *[Signature]*

Signature of the Principal/Course Co-ordinator/HOD: *[Signature]*

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
March			3. Earthquake Resistant Construction:
		16/03/23	3.1. Building configuration
		17/03/23	3.2. Lateral load resisting structures.
March		21/03/23	3.3. Building characteristics
		22/03/23	3.4. Effect of structural irregularities
		23/03/23	vertical irregularities, plan configuration problems.
		24/03/23	3.5 Safety consideration during additional construction and alteration of existing buildings.
March		28/03/23	3.6. Additional strengthening measures in masonry building - corner reinforcement, lintel band, sill
		29/03/23	band, plinth band, roof band, gable band etc.

Signature of the Faculty: *J. Devi*

Signature of the Principal/Course Co-ordinator/HOD: *[Signature]* 11.2.23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
April		31/03/23	4. Retrofitting of Structures
April		04/04/23	4.1. Seismic retrofitting of reinforced concrete buildings
April		06/04/23	4.2. Sources of weakness in RC frame buildings.
April		07/04/23	
April		11/04/23	4.3. Classification of retrofitting techniques and their uses.
April		12/04/23	
April		18/04/23	
April		19/04/23	

Signature of the Faculty:

[Handwritten Signature]

Signature of the Principal/Course Co-ordinator/HOD:

[Handwritten Signature]

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
April		20/04/23	5. Building Services:- 5.1. Cold water distribution in high rise building, lay out of installation.
		21/04/23	5.2. Hot water supply - General principles for central plants - layout.
		25/04/23	5.3. Sanitation - Soil and waste water installation in high rise building.
April		26/04/23	5.4. Electrical Services - i) Requirement in high rise building
		27/04/23	ii) Layout of wiring types of wiring iii) Fuses and their types. iv) Earthing and their use.
April		28/04/23	5.5. Lighting - Requirement of lighting, measurement of light intensity.
		29/04/23	5.6. Ventilation - methods of ventilation (Natural and artificial Systems of ventilation) problems on ventilation.
May		01/05/23	5.7. Mechanical Services - Lifts, Escalators, elevators - types and uses.

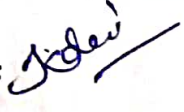
Signature of the Faculty: *[Signature]*

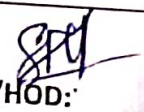
Signature of the Principal/Course Co-ordinator/HOD: *[Signature]*

11.2.23

B.I.E.T., COURSE PLAN


Month	Week	Class Day	Theory/Practical Topic
May			6. Construction and earth moving equipments :-
		02/05/23	6.1. Planning and selection of construction equipments.
May		03/05/23	6.2. Study on earth moving equipments like dragline, tractor, bulldozer, power
		04/05/23	6.3. Study & uses of compaction equipments like tamping rollers, smooth wheel rollers
		06/05/23	Pneumatic tired rollers & vibrating compactors.
		08/05/23	6.4. Owning and operating cost - problems.
		09/05/23	
May		10/05/23	
		11/05/23	
		12/05/23	
		13/05/23	

Signature of the Faculty: 

Signature of the Principal/Course Co-ordinator/HOD: 

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
May		15/05/23	7. Soil reinforcing techniques:-
		16/05/23	7.1. Necessity of soil reinforcing
		17/05/23	7.2. Use wire mesh and geo-
		18/05/23	Synthetics.
May		19/05/23	7.3. Strengthening of embankments,
		20/05/23	Slope stabilization in cutting and
		22/05/23	embankments by soil reinforcing
May		23/05/23	techniques.

Signature of the Faculty: 

Signature of the Principal/Course Co-ordinator/HOD: 