

# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## STUDENT'S ATTENDANCE REGISTER

Time	9:55 - 10:45	10:45 - 11:35	11:35 - 12:25		
Day					
MON.		✓			
TUE.	✓				
WED.	✓				
SAT.	✓	✓			

Year/ Session	
Semester & Branch	3 <sup>rd</sup> Sem / 2 <sup>nd</sup> year, Civil Dept.
Subject with Code	TM-3, Building Material & Construction Technology (BMACT)
Name of the Faculty Member	En. Soubhagya Kumari Behera

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<p>1. <u>PART - A</u> <u>Building Materials</u></p> <p><u>Stone</u> -</p> <ul style="list-style-type: none"> <li>→ classification of rock.</li> <li>→ uses of stone, natural bed of stone.</li> <li>→ qualities of good building stone.</li> <li>→ Dressing of stone.</li> <li>→ characteristics of stone.</li> <li>→ Different types of stone.</li> </ul>	<p>21/9/22</p> <p>23/09/22</p> <p>24/09/22</p> <p>24/09/22</p> <p>26/09/22</p> <p>27/09/22</p>	<p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p>	
<p>2. <u>Bricks</u> -</p> <ul style="list-style-type: none"> <li>→ Brick earth - it's composition.</li> <li>→ Brick making - preparation of brick.</li> <li>→ Moulding, Drying, Burning &amp; kiln.</li> <li>→ classification of bricks.</li> <li>→ size of traditional &amp; modular bricks.</li> <li>→ qualities of good building bricks.</li> <li>→ compositions of brick.</li> </ul>	<p>28/09/22</p> <p>28/09/22</p> <p>01/10/22</p> <p>01/10/22</p> <p>11/10/22</p> <p>12/10/22</p> <p>12/10/22</p>	<p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p> <p><u>Behar</u></p>	
<p>3. <u>Cement, Mortar &amp; concrete</u> -</p> <ul style="list-style-type: none"> <li>→ Cement, types of cement &amp; properties.</li> <li>→ Manufacturing, importance &amp; application.</li> </ul>	<p>14/10/22</p> <p>15/10/22</p>	<p><u>Behar</u></p> <p><u>Behar</u></p>	<p><u>[Signature]</u> 12/9/22</p>

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE THE H.O.
→ Mortar - Definition & Type.	15/10/22	<u>Behar</u>	
→ Source & classification of sand, Bulking of sand.	17/10/22	<u>Behar</u>	
→ Use of gravel, morrum & fly ash as different building material.	18/10/22	<u>Behar</u>	
→ Concrete - Definition & composition	19/10/22	<u>Behar</u>	
→ water cement ratio, workability, mechanical properties & grading of aggregate.	19/10/22	<u>Behar</u>	
→ Mixing placing, compacting & curing of concrete.	21/10/22	<u>Behar</u>	
<u>4. Other Construction Materials -</u>			
→ Timber - classification & structure of timber.	21/10/22	<u>Behar</u>	
→ Seasoning of timber & importance.	22/10/22	<u>Behar</u>	
→ characteristics of good timber.	22/10/22	<u>Behar</u>	
→ clay products & refractory material.	26/10/22	<u>Behar</u>	
→ Definitions & classification.	27/10/22	<u>Behar</u>	
→ properties of refractory materials.	29/10/22	<u>Behar</u>	
→ Use of refractory material.	29/10/22	<u>Behar</u>	

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
→ Tiles, terracotta, porcelain glazing, iron & steel - use of cast iron, wrought iron, mild steel & ton steel.	1/11/22	<u>Behar</u>	
<u>5. Surface Protective Materials</u> -			
→ composition of paints.	2/11/22	<u>Behar</u>	
→ Enamels, varnishes.	4/11/22	<u>Behar</u>	
→ Types of surface protective material.	5/11/22	<u>Behar</u>	
→ paints, Enamels, varnishes,	5/11/22	<u>Behar</u>	
→ Distempers, Emulsion.	7/11/22	<u>Behar</u>	
→ French polish, wax polish.	9/11/22	<u>Behar</u>	
<u>PART - B</u>			
<u>Construction Technology</u> -			
<u>1. Introduction</u> -			
→ Buildings & classification of building based on occupancy.	10/11/22	<u>Behar</u>	
→ Different components of a building.	12/11/22	<u>Behar</u>	
→ Site investigation - objectives, site reconnaissance & explorations.	12/11/22	<u>Behar</u>	<u>BA</u> 12/19/22

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE THE H.O.C
<p><u>2. Foundations</u> -</p> <p>→ concept of Foundation &amp; it's purpose.</p>	14/11/22	<u>Behers</u>	
<p>→ Types of Foundation - shallow &amp; Deep.</p>	15/11/22	<u>Behers</u>	
<p>→ <u>Shallow foundation</u> - spread foundation of walls, thumb rule for depth &amp; width of foundation.</p>	15/11/22	<u>Behers</u>	
<p>→ Thickness of concrete block, <u>Deep foundation</u> - pile foundation, their suitability, classification of piles based on material.</p>	16/11/22	<u>Behers</u>	
<p>→ Methods of installations.</p>	19/11/22	<u>Behers</u>	
<p><u>3. Walls &amp; Masonry Works</u> -</p>	19/11/22	<u>Behers</u>	
<p>→ Purpose of walls.</p>	21/11/22	<u>Behers</u>	
<p>→ classification of walls.</p>	21/11/22	<u>Behers</u>	
<p>→ load bearing, non-load bearing, retaining wall.</p>	22/11/22	<u>Behers</u>	
<p>→ Partition walls - suitability &amp; use.</p>	22/11/22	<u>Behers</u>	
<p>→ Brick masonry <u>Definition</u> of different terms.</p>	23/11/22	<u>Behers</u>	

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
→ Bond - meaning & necessity.	26/11/22	<u>Belu</u>	
→ Stone masonry, Glossary of terms - string course, corbel, cornice, block-course, grouting, mouldings.	26/11/22	<u>Belu</u>	
<u>4. Doors, Windows &amp; Lintels</u> -			
→ Glossary of terms used in doors & window.	26/11/22	<u>Belu</u>	
→ Doors - Different types of doors.	28/11/22	<u>Belu</u>	
→ Windows - different types of window.	29/11/22	<u>Belu</u>	
→ purpose of arches & lintels.	30/11/22	<u>Belu</u>	
→ use of arches & lintel.	3/12/22	<u>Belu</u>	
<u>5. Floors, Roofs &amp; Stairs</u> -			
→ Floors :- Glossary of terms, types of floor finishes, cast-in-situ.	3/12/22	<u>Belu</u>	
→ Roofs :- Glossary of terms, types of terms, types of roofs, concept & functions of flat.	5/12/22	<u>Belu</u>	
→ pitched, hipped & sloped roofs.	5/12/22	<u>Belu</u>	
→ Stair :- Glossary of terms, stair case, stringer, newel, baluster, rise, tread, width of stair case.	6/12/22	<u>Belu</u>	

# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE THE H.O.C.
→ Hand rail, head room, mummy room, nosing.	7/12/22	<u>Behery</u>	
→ various types of stair case -	7/12/22	<u>Behery</u>	
6. <u>Protective</u> , <u>Decorative</u> <u>Finishes</u> , <u>Damp &amp; termite proofing</u> -			
→ Plastering - purpose - types of plastering.	10/12/22	<u>Behery</u>	
→ Types of plaster finishes.	10/12/22	<u>Behery</u>	
→ proportion of mortar used for different plasters.	12/12/22	<u>Behery</u>	
→ pointing - purpose & curing.	12/12/22	<u>Behery</u>	
→ painting - objectives, methods.	13/12/22	<u>Behery</u>	
→ white washing - colour washing.	14/12/22	<u>Behery</u>	
→ Damp & termite proofing.	14/12/22	<u>Behery</u>	
→ materials.	17/12/22	<u>Behery</u>	
→ methods.	17/12/22	<u>Behery</u>	

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<p>7. <u>Green Buildings, Energy Management of Buildings</u> &amp; <u>Energy Audit Project</u> -</p> <p>→ Concept of green building.</p>	19/12/22	<i>Belver</i>	
<p>→ Introduction of energy management &amp; Energy Audit.</p>	19/12/22	<i>Belver</i>	
<p>→ Aim of energy management.</p>	20/12/22	<i>Belver</i>	
<p>→ Types of energy audit, Response energy audit questionnaires.</p>	21/12/22	<i>Belver</i>	
<p>→ Energy Surveying &amp; audit Report.</p>	21/12/22	<i>Belver</i>	<p><i>BP</i> 12/9/22</p>