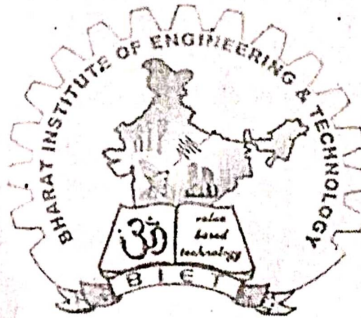


# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



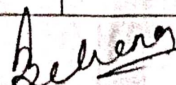
## STUDENT'S ATTENDANCE REGISTER

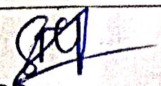
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Day	9:55	10:45	11:30		
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Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	3 <sup>rd</sup> Sem / 2 <sup>nd</sup> year. & Civil Engrg. Dept.
Subject with Code	Building Material & Construction Technology (7b)
Name of the Faculty Member	En. Soubhagya Kumari Behera
No of Weeks:	No of Class Allotted/Week : 05.

# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
August Aug.			<p>- <u>Part - A</u> -</p> <p>- <u>Building Material</u> -</p> <p style="text-align: center;"><u>chapter - 1</u></p> <p>- <u>Stone</u> -</p>
	1 <sup>st</sup> week	01/08/23	→ classification of rock.
		02/08/23	→ uses of stone.
		03/08/23	→ Natural bed of stone.
		03/08/23	→ Qualities of good building stone.
	2 <sup>nd</sup> week	07/08/23	→ Dressing of stone.
		08/08/23	→ Characteristics of different types of stone & their uses.
			- <u>chapter - 2</u> -
			- <u>Bricks</u> -
		09/08/23	→ Brick earth - its composition.
		10/08/23	→ Brick making - preparation of brick earth.
		10/08/23	→ Moulding, Drying, Burning in kilns.
	3 <sup>rd</sup> week	14/08/23	→ classification of bricks.
		16/08/23	→ size of traditional bricks.
		17/08/23	→ size of modulus bricks.
		17/08/23	→ qualities of good building bricks.

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
<u>Aug</u>	4th week	21/08/23	- <u>Chapter-3</u> - <u>Cement, Mortar &amp; concrete</u>
		22/08/23	→ cement, types of cement, properties Cement manufacture of cement
		23/08/23	→ Importance & application of blended Cement with fly ash & blast furnace slag,
		24/08/23	→ Mortar: types of mortar.
		24/08/23	→ Source & classification of sand, Bulking of sand, uses of gravel.
	5th week	28/08/23	→ Bulking of sand, uses of gravel.
		29/08/23	→ mortar, fly ash as different building material
		31/08/23	→ Definition & composition of water cement ratio, workability
		<del>31/08/23</del>	→ Compacting & curing of concrete.

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	
			- <u>Chapter-4</u> - - <u>Other Construction Materials</u> -	
Sept.	2 <sup>nd</sup> week	31/08/23	→ Timber :- classification & structure of timber.	
		04/09/23	→ seasoning of timber - it's importance.	
		05/09/23	→ characteristics of a good timber.	
		07/09/23	→ clay products & refractory material.	
		07/09/23	→ classification of clay products & classification of refractory material.	
	3 <sup>rd</sup> week	11/09/23	→ properties & uses of refractory material.	
		12/09/23	→ Tiles, terracotta, porcelain glazing.	
		13/09/23	→ Iron & steel :- uses of cast iron, mild steel & tool steel.	
				- <u>Chapter-5</u> -
	4 <sup>th</sup> week	14/09/23	→ <u>Surface protective Material</u> -	
14/09/23		→ composition of paints.		
18/09/23		→ Enamels, varnishes.		
21/09/23		→ types of protective material.		
21/09/23		→ uses of surface protective material.		
5 <sup>th</sup> week	25/09/23	→ Distempers, emulsion, French polish & wax polish.		

Signature of the Faculty: Belcher

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

# B.I.E.T., COURSE PLAN

Theory/Practical Topic

Month	Week	Class Day	Theory/Practical Topic
<u>Sept.</u>			<p>— <u>Part - B.</u> —</p> <p>— <u>Construction Technology</u> —</p> <p style="text-align: center;"><u>Chapter - 1</u></p> <p style="text-align: center;"><u>Introduction</u> —</p> <p>26/09/23 → Building &amp; classifications of buildings based on occupancy.</p> <p>27/09/23 → Different components of a building.</p> <p>28/09/23 → Site investigation, Site Reconnaissance &amp; explorations.</p>
<u>Oct.</u>	1 <sup>st</sup> week		<p>— <u>Chapter - 2</u> —</p> <p>— <u>Foundation</u> —</p> <p>28/09/23 → concept of Foundation, &amp; it's purpose</p> <p>03/10/23 → Types of foundation - Shallow &amp; Deep</p> <p style="text-align: center;"><u>Shallow foundation</u> : —</p> <p>spread foundations for walls, thumb rules for depth &amp; width of foundation</p> <p>04/10/23 → thickness of concrete block</p> <p>05/10/23 → <u>Deep Foundation</u> : —</p> <p>pile foundation — their suitability</p>

Signature of the Faculty: B. Srinivas

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

# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Oct.		05/10/23	<ul style="list-style-type: none"> <li>→ classification of pile based on material,</li> <li>→ Function &amp; Methods of installation.</li> </ul> <p style="text-align: center;">- Chapter - 3 -</p> <p style="text-align: center;">- <u>Walls &amp; Masonry Works</u> -</p>
	2 <sup>nd</sup> week	09/10/23	<ul style="list-style-type: none"> <li>→ purpose of wall</li> <li>→ classification of walls - load bearing, non-load bearing walls, retaining wall.</li> <li>→ classification of wall as per materials of construction :- brick, stone, reinforced brick, reinforced concrete, precast, hollow &amp; solid concrete block</li> </ul>
		10/10/23	<ul style="list-style-type: none"> <li>→ composite masonry walls,</li> <li>→ partition walls :- suitability &amp; uses of brick &amp; wooden partition walls</li> </ul>
		11/10/23	→ Brick masonry :- Definition of different terms
		12/10/23	<ul style="list-style-type: none"> <li>→ Bond - Meaning &amp; necessity : English bond for 1 &amp; 1/2 brick thick walls, &amp; right angled corner junctions.</li> </ul>
	3 <sup>rd</sup> week	16/10/23	<ul style="list-style-type: none"> <li>→ thickness for 1 &amp; 1/2 brick square pillars in English bond.</li> <li>→ stone masonry.</li> </ul>

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# B.I.E.T., COURSE PLAN

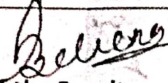
Month	Week	Class Day	Theory/Practical Topic
<u>Oct.</u>		17/10/23	→ Glossary of terms - String & course, cornice, cornice, block in course, grouting.
		18/10/23	→ moulding, templates, throating; through stone, parapet, coping, pilaster & buttress.
		19/10/23	— <u>Chapter - 4</u> —
		19/10/23	→ <u>Door, Windows &amp; lintels</u> —
		19/10/23	→ Glossary of terms used in doors & window
<u>Nov</u>	5th week	30/10/23	→ Doors — Different types of doors.
		31/10/23	→ Windows — Different types of windows.
	1st week	01/11/23	→ purpose of use of arches & lintels.
		02/11/23	— <u>Chapter - 5</u> —
		02/11/23	→ <del>Roofs</del> , <u>Floors</u> , <u>ROOFS</u> & <u>stairs</u> —
			Floors — Glossary of terms — types of floor finishes.
		05/11/23	→ cast-in-situ concrete flooring.
2nd week		06/11/23	→ Terrazzo tile flooring, cast-in-situ Terrazzo flooring.

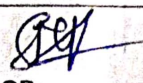
Signature of the Faculty: B. Selvaraj

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# B.I.E.T., COURSE PLAN

nth	Week	Class Day	Theory/Practical Topic
Nov		07/11/23	→ Timber flooring. <u>Roofs</u> :- Glossary of terms, types of roofs.
		08/11/23	→ concept & function of flat, pitched, hepped & sloped roofs.
		09/11/23	<u>Stairs</u> :- Glossary of terms - stair case, winder, landing, stringer, newel, baluster, rise, tread, hand rail.
		09/11/23	<u>Various types of stair case</u> :- straight, flight, dog legged, open well, quarter turn, half turn, spiral stairs, cantilever stairs, trade & rise stairs.
			- <u>Chapter - 6</u> - <u>Protective, Decorative Finishes, Damp &amp; termite proofing</u> -
	3rd week		13/11/23
		14/11/23	→ proportion of mortar used for different plasters; preparation of mortars, techniques of plastering & curing.

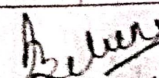
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
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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
November	4th week	15/11/23	→ painting - purpose - types of painting
		16/11/23	→ painting - objectives - methods of painting new and old wall surface wood surface & metal surface
		16/11/23	→ powder coating & spray painting on metal surface.
		20/11/23	→ white washing - colour washing - colour washing, D & Stempers, internal & external walls.
		21/11/23	→ Damp & termite proofing - materials & methods.
		22/11/23	→ <u>Chapter - 7 -</u> <u>Green Building, Energy Management &amp; Energy Audit of Buildings</u> & Page
November	5th week	23/11/23	→ concept of green building.
		23/11/23	→ Introduction to Energy management & Energy Audit of Building.
		28/11/23	→ Aim of energy management of buildings.

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		29/11/23	→ Types of energy audit, Response energy audit questionnaire.
		30/11/23	→ Energy Surveying & audit report.

Signature of the Faculty:

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