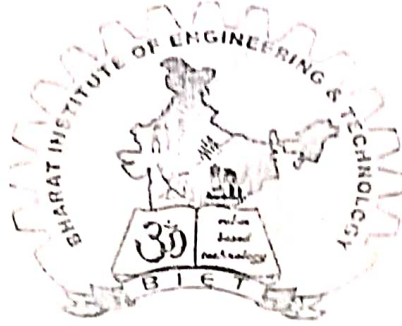


# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



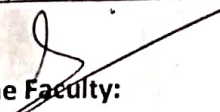
## STUDENT'S ATTENDANCE REGISTER


Time	9-05	9-55			
Day	9-55	10-45			
Mon	✓				
Tues		✓			
Thurs	✓				
Fri		✓			
Sat	✓				

Year/ Session	
Semester & Branch	6 <sup>th</sup> sem, civil/ department
Subject with Code	Th-1 Survey - II
Name of the Faculty Member	Suneeta Samantasingh

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

Month	Week	Class Day	Theory/Practical Topic
FEBRUARY	2 <sup>nd</sup>	14.02.2023	<p style="text-align: center;"><u>CHAPTER - I</u> TACHEOMETRY</p> <ul style="list-style-type: none"> <li>• Principles</li> <li>• Stadia constants determination</li> </ul>
		15.02.2023	<ul style="list-style-type: none"> <li>• Stadia tacheometry with staff held vertical &amp; with line of collimation horizontal or inclined.</li> </ul>
		17.02.2023	
		18.02.2023	<ul style="list-style-type: none"> <li>• Numerical problems.</li> </ul>
		20.02.2023	
		21.02.2023	<ul style="list-style-type: none"> <li>• Elevations &amp; distances of staff stations</li> </ul>
		23.02.2023	
		24.02.2023	<ul style="list-style-type: none"> <li>• Numerical problems.</li> </ul>
		25.02.2023	

Signature of the Faculty: 

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

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


Month	Week	Class Day	Theory/Practical Topic
February			<u>CHAPTER -II</u> <u>CURVES</u>
		27.02.2023	Compound, Reverse & transition curve
		28.02.2023	Purpose & use of different types of curves in field.
		2.03.2023	Elements of circular curves, numerical problems.
		3.3.2023	Preparation of curve table for setting out.
March		4.03.2023	Setting out of circular curve by chain & tape & by instrument angular methods (i) Offset from long chord
		6.03.2023	(ii) Successive bisection of arc (iii) Offsets from tangents
		7.03.2023	(iv) Offset from chord produced (v) Rankine's method of tangent angles
		8.03.2023	Obstacles in curve ranging - point of intersection inaccessible.

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

Month	Week	Class Day	Theory/Practical Topic
			<u>CHAPTER-3</u> <u>BASICS ON SCALE &amp; BASICS OF MAP</u>
March		9.03.2023	<ul style="list-style-type: none"> <li>Fractional or Ratio Scale, Linear Graphical scale</li> <li>What is map, Map scale &amp; Map projection</li> </ul>
		10.03.2023	<ul style="list-style-type: none"> <li>How map convey location &amp; Extent</li> </ul>
		11.03.2023	<ul style="list-style-type: none"> <li>How map convey characteristic of features</li> </ul>
		13.03.2023	<ul style="list-style-type: none"> <li>How maps convey spatial Relationship</li> </ul>
		14.03.2023	<ul style="list-style-type: none"> <li>Classification of Maps</li> <li>Physical Map</li> </ul>
March		16.03.2023	<ul style="list-style-type: none"> <li>Topographic Map</li> <li>Road Map</li> </ul>
		17.03.2023	<ul style="list-style-type: none"> <li>Political Map</li> <li>Economic &amp; Resources Map</li> </ul>

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


Month	Week	Class Day	Theory/Practical Topic	
March		18-03-2023	Thematic Map Climate Map  <u>CHAPTER - 4</u> <u>SURVEY OF INDIA MAP SERIES</u>	
		20-03-2023	Open series Map	
		21-3-2023		
		23-3-2023	Defense series map	
		24-3-2023	Map Nomenclature	
		24-3-2023	Quadrangle Name	
		25-3-2023	Latitude, Longitude, UTM's	
	March		27-3-2023	Contour lines
			28-3-2023	Magnetic Declination
			30-3-2023	Public Land Survey system
		31-3-2023	Field Notes	

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

Month	Week	Class Day	Theory/Practical Topic
APRIL     April	1 <sup>st</sup>		<u>CHAPTER-5</u>
			BASICS OF AERIAL PHOTOGRAPHY PHOTOGRAMMETRY, DEM & ORTHO <u>IMAGE GENERATION:</u>
		1.04.2023	5.1 Aerial Photography:
		3.04.2023	• Film, focal length, Scale
		4.04.2023	• Types of Aerial photographs (Oblique, Straight)
		5.04.2023	5.2 Photogrammetry:
			• Classification of Photogrammetry
			• Aerial Photogrammetry
	• Terrestrial Photogrammetry		
	5.3 <u>Photogrammetry Process:</u>		
	6.04.2023	Acquisition of imagery using aerial & satellite platform	
	7.04.2023	Control Survey	
	8.04.2023	Geometric Distortion in Imagery	

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

Month	Week	Class Day	Theory/Practical Topic
April	2 <sup>nd</sup>	10.04.2023	Application of Imagery & its support data Orientation & Triangulation
		11.04.2023	Stereoscopic & Measurement X- parallax Y- parallax
		13.04.2023	DTM / DEM Generation Ortho Image Generation <u>CHAPTER-6</u> <u>MODERN SURVEYING METHODS</u>
		14.04.2023	Principal features, & use of
		15.04.2023	Micro-Optic Theodolite
		17.04.2023	Digital Theodolite
		18.04.2023	Working principles of a Total Station.
		19.04.2023	Set up & use of total station to measure
		20.04.2023	angles, distances of points under survey from total station & the coordinates

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

Month	Week	Class Day	Theory/Practical Topic
April		21.04.2023	(X, Y & Z or northing, easting, & elevation) of surveyed points relative to Total station position using trigonometry & triangulation.
		22.04.2023	
		24.04.2023	
		25.04.2023	
			<u>CHAPTER - 7.</u> <u>BASICS ON GPS &amp; DGPS &amp; ETS</u>
		27.04.2023	GPS:- Global Positioning Working Principle of GPS, GPS signals.
		28.04.2023	Errors of GPS, Positioning methods
		29.04.2023	DGPS:- Differential Global Positioning System
MAY	1st	1.05.2023	- Base station setup - Rover GPS Setup - Download, Post process & Export GPS data
		2.05.2023	- Sequence to Download GPS data from flashcards

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


Month	Week	Class Day	Theory/Practical Topic
May		3.05.2023	Sequence to post process GPS data
		4.05.2023	Sequence to export post process GPS data Sequence to export GPS Time tags to file
May		5.05.2023	ETS: <u>Electronic Total Station</u> - Distance Measurement - Angle Measurement
		6.05.2023	- Leveling - Determining position
		8.05.2023	Reference networks Errors & Accuracy

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

Month	Week	Class Day	Theory/Practical Topic
May			<u>CHAPTER-8</u>
			<u>BASICS OF GIS &amp; MAP PREPARATION USING GIS:</u>
		9.05.2023	- Components of GIS, Integration, of Spatial & Attribute Information
		10.05.2023	- Three views of Information System
		12.05.2023	• Database or Table View.
		13.05.2023	• Map view & Model View
		15.05.2023	- Spatial Data Model
		16.05.2023	- Attribute Data Management & Metadata Concept
		18.05.2023	- Prepare data & adding to Arcmap Organizing data as layers
		19.05.2023	Editing the layers
May		20.05.2023	Switching to Layout view Change page orientation
		22.05.2023	Removing Borders Adding & editing map information
			Finalize the map

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