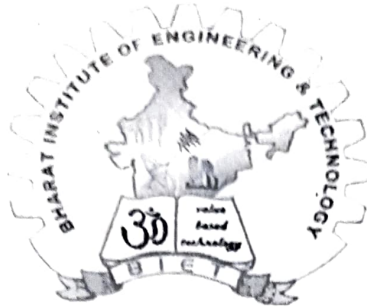


116 sem/711-2 (original) sec. 11

# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## STUDENT'S ATTENDANCE REGISTER

Time	9:05				
Day	9:55				
Mon	✓				
Wed	✓				
Thu	✓				
Sat	✓				

Year/ Session - S-2023

Semester & Branch

4<sup>th</sup> sem, Mechanical (TH-2)

Subject with Code

Manufacturing Technology (MT)

Name of the Faculty Member

Er. M. Roshan Kumar Patro

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

Month	Week	Class Day	Theory/Practical Topic
<u>Feb</u>	<u>2<sup>nd</sup></u>	13/2/23	1. Tool materials: 1.1. Composition of various tool materials.
		15/2/23	1.2. physical properties & use of such tool materials.
	<u>3<sup>rd</sup></u>	16/2/23	2.1. Cutting tools :- 2.1. Cutting action of various tool such as chisel, hacksaw blade, dies and reamer.
		20/2/23	2.3. Turning tool geometry and purpose of tool angle
		20/2/23	2.4. Machining process parameters (speed, feed and depth of cut)
		23/2/23	2.5. Coolants and lubricants in machining and purpose.

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
March	4 <sup>th</sup>	25/2/23	3. Lathe machine :- 3.1. Construction and working of lathe and CNC lathe. • Major Components of a lathe and their function.
		27/2/23	
	1 <sup>st</sup>	1/3/23	• operations carried out in a lathe (Turning, thread cutting, taper turning, internal machining, parting off, facing, knurling) • Safety measures during machining
		02/3/23	3.2. Capstan lathe. • Difference with respect to engine lathe.
		27/2/23	• Major Components and their function.

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>2023</u>	<u>29<sup>th</sup></u>	4/3/23 5/3/23	<ul style="list-style-type: none"> <li>Define multiple tool holders.</li> <li>3.3. Turricel Lathe.</li> <li>Difference with respect to Capst on lathe.</li> <li>Major Components and their function.</li> </ul>
	<u>30<sup>th</sup></u>	6/3/23	3.4. Draw the tooling layout for Preparation of a hexagonal bolt & bush.
	<u>31<sup>st</sup></u>	7/3/23	4.0 Shaper.
	<u>1<sup>st</sup></u>	14/3/23	4.1. potential application areas of a shaper machine.
	<u>2<sup>nd</sup></u>	13/3/23	4.2 Major Components and their function.
	<u>3<sup>rd</sup></u>	15/3/23	4.3. Explaining the automatic table feed mechanism.

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
		18/3/23	4.4. Explain the Construction & Working of tool head.
		19/3/23	4.5. Explain the quick return Mechanism through sketch.
			4.6. State the Specification of a shaping machine.
			5.0. Planning Machine.
	4 <sup>th</sup>	20/3/23	5.1 Application area of a planer and its difference with respect to shaper.
		22/3/23	5.2. Major Components and their functions.
		23/3/23	5.3. The table drive mechanism

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>5<sup>th</sup></u>	25/3/23 26/3/23 27/3/23	5.4. Working of tool and tool support 5.5. Clamping of Work through sketch.
			6.0. Milling Machine :-
		29/3/23	6.1 Types of milling machine and operation performed by them and also same for CNC milling machine.
<u>April</u>	<u>2<sup>nd</sup></u>	03/4/23	6.2. Explain Work holding attachment
		5/4/23	6.3. Construction & Working of simple dividing head universal dividing head.
		6/4/23	
	<u>3<sup>rd</sup></u>	10/4/23 12/4/23	6.4. procedure of simple and compound indexing.
		15/4/23	6.5 illustration of different indexing Methods.

Signature of the Faculty:




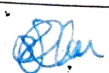
Signature of the Principal/Course Co-ordinator/HOD:



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

Month	Week	Class Day	Theory/Practical Topic
			7.0 <u>Slotted</u> :-
		15/4/23	7.1. Major Components and function.
	<u>4th</u>	17/4/23 19/4/23	7.2. Construction and Working of slotter machine.
		20/4/23	7.3. Tool used in slotter.
	<u>5th</u>		8.0. <u>Grinding</u> :- m.m.m.d
		24/4/23	8.1. Significance of grinding operations.
		26/4/23	8.2. Manufacturing of grinding Wheel.
		27/4/23	8.3. Criteria for selecting of grinding wheels.

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	1 <sup>st</sup>	29/4/23	8.1. Specification of grinding wheel with example working of <ul style="list-style-type: none"> <li>• Cylindrical grinders</li> <li>• Sander grinders</li> <li>• Centerless grinders</li> </ul>
		01/5/23	
		03/5/23	
		05/5/23	
		06/5/23	9.0. Internal machining operations. Classification of drilling machines.
		08/5/23	9.1. Working of <ul style="list-style-type: none"> <li>• Bench drilling machine.</li> <li>• Pillar drilling machine</li> <li>• Radial drilling machine.</li> </ul>
		10/5/23	
		11/5/23	9.2. Boring. <ul style="list-style-type: none"> <li>• Basic principle of Boring.</li> <li>• Different - between Boring and drilling.</li> </ul>
		13/5/23	

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
	3 <sup>rd</sup>	15/5/23	<p>9.3. Broaching.</p> <ul style="list-style-type: none"> <li>• Types of Broaching (pull type, push type)</li> <li>• Advantages of Broaching and applications.</li> </ul>
		17/5/23	<p>10. Surface finish lepping:-</p>
		18/5/23	<p>10.1. Definition of surface finish</p>
		20/5/23	<p>10.2. Description of lepping &amp; expl. w/in their specific cutting.</p>

Signature of the Faculty: 

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