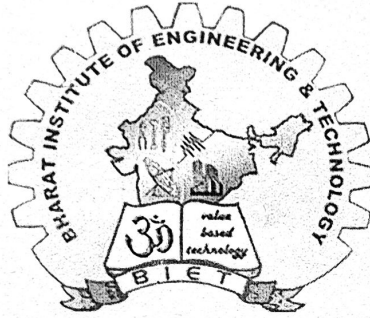


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



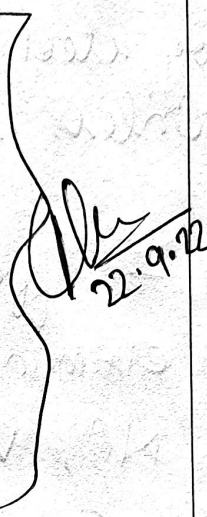
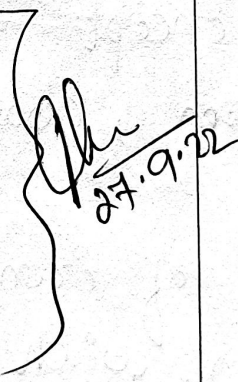
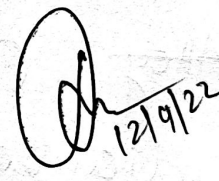
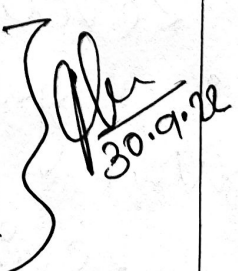
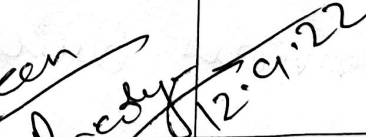
STUDENT'S ATTENDANCE REGISTER

Time	9.05	10.45	2.45		
Day	-9.55	11.35	3.35		
TUE			✓		
THU		✓			
FRI	✓				
SAT		✓			

Year/ Session	2nd year 2022-23
Semester & Branch	3rd Sem, Mechanical Engrg
Subject with Code	Engineering Material
Name of the Faculty Member	Pradyumna maharana.


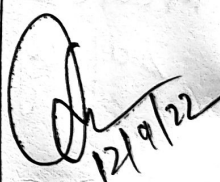

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.	
Material Classification into ferrous and non-ferrous Category and alloys	16.9.22	 22.9.22		
properties of a material physical chemical and Mechanical	20.9.22			
performance requirements	22.9.22			
Material reliability and safety	23.9.22	 27.9.22	 12/9/22	
Revision	24.9.22			
previous year question and answer discussion	27.9.22			
<u>CH-2</u>				
characteristics and application of ferrous materials	29.9.22	 30.9.22		
classification, composition and application of low Carbon steel, medium Carbon steel, high Carbon steel	30.9.22			
		Seen	 12.9.22	


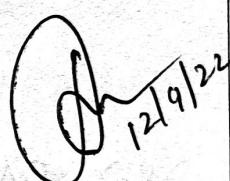
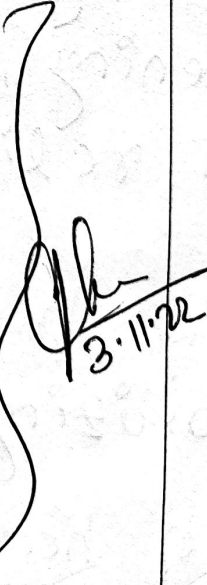
B.I.E.T.

SYLLABUS COVERAGE




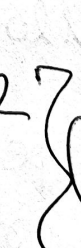
TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Alloy steel low alloy steel high alloy steel, tool steel and stainless steel.	1.10.22	 14.10.22	
Tool steel - effect of various alloying elements such as Cr, Mn, Ni, V, Mo.	13.10.22		
<u>CH-3</u>			
Alloy Concept of phase diagram, cooling curves	14.10.22		 12/9/22
Feature of iron-carbon diagram with salient micro-constituents iron and steel.			
Revision	18.10.22	 22.10.22	
previous year question discussion	20.10.22		
Revision	21.10.22		
previous questions discussion	22.10.22		

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Crystal defines, classification of Crystal, ideal Crystal Crystal imperfections.	25.10.22	 28.10.22	 12/9/22
Classification of imperfections point defects, line defects surface defects and volume defects.	27.10.22		
Types and Causes of point defects, Vacancies, interstitials and impurities	28.10.22		
Types and causes of line defects, Edge dislocation Screw dislocation.	29.10.22	 3.11.22	
effect of imperfection on material properties	1.11.22		
deformation by slip and twinning	3.11.22		



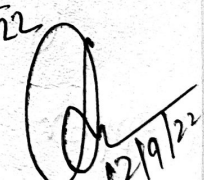
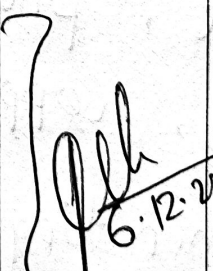

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.	
effect of deformation on material properties	4.11.22	 10.11.22		
Revision	5.11.22			
previous year Question discussion	10.11.22			
<u>CH-5</u>				
purpose of heat treatment	11.11.22	 12.11.22	 12/11/22	
process of heat treatment Annealing, Normalizing hardening, tempering, stress relieving measures	12.11.22			
surface hardening, Cyaniding and Nitriding	15.11.22	 17.11.22		
effect of heat treatment on properties of steel	17.11.22			

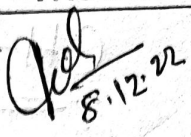

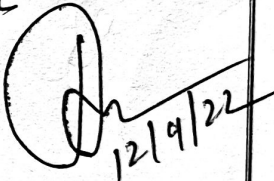
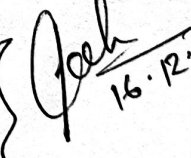
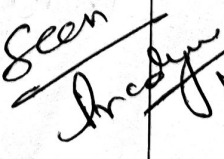
B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<p>Hardenability of steel</p> <p>Revision</p> <p>previous year Question practice</p>	<p>18.11.22</p> <p>19.11.22</p> <p>22.11.22</p>	<p><i>[Signature]</i> 22.11.22</p>	
<p style="text-align: center;"><u>CH-6</u></p> <p>Aluminium alloys, composition property and uses of Duralumin γ-alloy</p>	<p>24.11.22</p>	<p><i>[Signature]</i> 24.11.22</p>	<p><i>[Signature]</i> 12/9/22</p>
<p>Copper alloys, composition property and uses of copper aluminium, Copper-tin babbitt, phosphorous bronze brass, Copper, Nickel.</p>	<p>25.11.22</p>	<p><i>[Signature]</i> 25.11.22</p>	
<p>predominating elements of lead alloys, Zinc alloys Nickel alloys.</p>	<p>26.11.22</p>	<p><i>[Signature]</i> 26.11.22</p>	



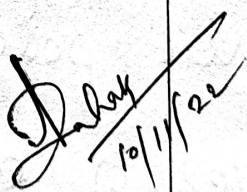
B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<p>Low alloy material like P-91, P-22 for power plants and others. High temperature services, high alloy material like stainless steel grades of duplex, super duplex material.</p>	29.11.22	 29.11.22	
<p style="text-align: center;">Revision</p> <p>previous year Question practice</p>	1.12.22	 2.12.22	 12/19/22
<p style="text-align: center;"><u>CH. 7</u></p> <p>Classification, Composition properties and use of copper base.</p>	3.12.22	 6.12.22	
<p>Tin base, Lead base Cadmium based bearing material</p>	6.12.22		

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
previous year Question practice	8.12.22	 8.12.22	
<u>CH-8.</u> classification, Composition properties and uses of iron base and copper base spring material	9.12.22		
previous question practice <u>CH-9.</u>	10.12.22	 13.12.22	 12/9/22
properties and application of the thermosetting and thermoplastic polymers	13.12.22		
properties of elastomer Revision.	15.12.22 16.12.22	 16.12.22	
	Seen  12.9.22		

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<p style="text-align: center;"><u>CH-10</u></p> <p>Classification, Composition properties and uses of particulate based and fiber reinforced composites.</p>	17.12.22		
<p>Classification and uses of ceramics</p>	20.12.22	 12.9.22	 21/9/22
<p>Revision</p>	22.12.22		
		 10/11/22	