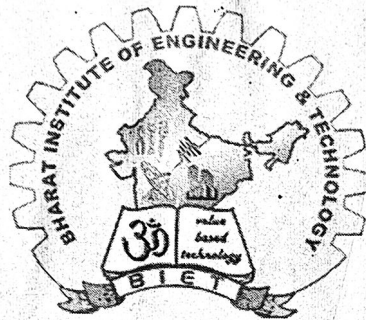


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time	9.05	12.25	1.45	2.45	
Day	9.55	1.15	2.45	3.35	
Mon	✓				
Tue		✓			
Wed					
Thu			✓		
Fri					
Sat				✓	

Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	5th Sem, mech. Engrg.
Subject with Code	DME
Name of the Faculty Member	Enr. Sambosh Kumar Nayak.
No of Weeks:	No of Class Allotted/Week :

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Aug <hr/> 23	1st	03/08	1.0 <u>Introduction</u>
			1.1. <u>Introduction to machine Design and clarity etc.</u>
		05/08	1.2. <u>Different mechanical Engg. materials</u> - Mechanical properties - physical properties.
		08/08	1.3. <u>Define working stress</u> - yield stress - ultimate stress - F.O.S. - stress strain curve for M.S. & C.I.
	2nd	09/08	1.4. <u>Modes of failure</u> By elastic deflection general yielding & fracture.

*Seen
Anand Kumar*

[Signature]

Signature of the Faculty: *[Signature]*

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

S.I.E.T., COURSE PLAN


Month	Week	Class Day	Theory/Practical Topic
	3rd	10/08	<p><u>1.5.</u> State the factors governing the design of M/c elements</p> <p><u>1.6.</u> Describe design procedure</p>
		12/08	<p><u>2.0</u> Design of fastening elements.</p> <p><u>2.1.</u> joints and their classification</p>
	4th	19/08	<p><u>2.2.</u> state types of welded joints</p> <p><u>2.3.</u> State advantages of welded joints and types of rivets.</p>
		22/08	<p>2.4. Numerical</p>
			<p><u>2.4.</u> Design of welded joints for eccentric loads.</p>


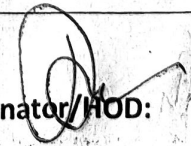
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B.I.E.T., COURSE PLAN


Month	Week	Class Day	Theory/Practical Topic
Sept <u>23</u>	1st	23/08	2.5. State types riveted joints and types of rivets. 2.6 Describe failure of riveted joint
		26/08	2.7. Determine strength & efficiency of riveted joints.
		01/09/08	2.8 Design riveted joints for pressure vessel.
		03/09/08	2.9. Solve numerical on welded joint and riveted joints.

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

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		05/09	<u>3.0</u> Design of shafts and keys <u>3.1</u> State function of shaft
	<u>2nd</u>	06/09	3.2. State materials for shafts <u>3.3.</u> Design solid and hollow shafts to transmit a given power at given rpm based on,
		07/09	a) Strength b) Shear stress c) Combined bending torsion
	<u>3rd</u>	09/09	d) Rigidity i) Angle of twist ii) Deflection iii) Modulus of rigidity.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
	4th	12/09	3.4. State standard size of shaft as per IS.
		23/09	3.5. State function of keys Types of keys Materials of keys
		26/09	3.6. Describe failure of key Effect of key way.
Oct 23	1st	23/10	3.7. Design of rectangular sunk key by using empirical relation for given diameter of shaft.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		05/10	<u>3.7.</u> Design rectangular sunk key considering its failure against shear and crushing.
	2nd	07/10	<u>3.9.</u> State specification of parallel key Gib head key taper key
	3rd	09/10	<u>3.10</u> Numericals on design of shaft and keys.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Nov 23	1st	10/10	<u>4.0</u> Design of Coupling
		12/10	<u>4.1</u> Design of shaft coupling.
			<u>4.2</u> Requirements of a good shaft coupling.
		14/10	<u>4.3</u> Types of coupling.
			<u>4.4</u> Design of sleeve or nutt coupling.
		09/10	<u>4.5</u> Design of clamp or Compression coupling.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		04/10	4.6 Solve Numerical on above.
			5.0 Design a closed coil helical Spring
	2nd	06/11	5.1. Materials used for helical Spring
		07/11	5.2. Standard size spring wire (SWG)
	3rd	09/11	5.3. Terms used in Compression Spring


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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		18/11	<u>5.4.</u> Stress in helical Spring of a circular wire
	4th	21/11	<u>5.5.</u> Deflection of helical Spring of circular wire.
		23/11	<u>5.6.</u> Surge in Spring
		25/11	<u>5.7.</u> Solve Numerical on design of closed coil helical Compression Spring.

Seen
J. Reddy
 16/10/23

Signature of the Faculty: 

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