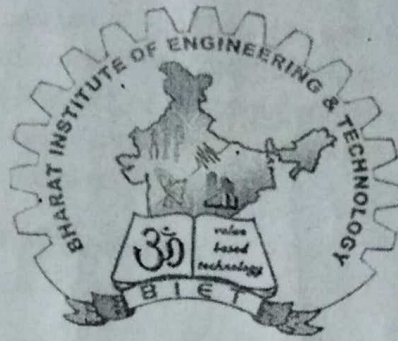


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time	11.35	1.05		
Day	-12.25	-1.55		
Wed	↔			
Thu		↔		
Fri	↔			
Sat	↔			

Semester from Date: 20/03/2023 To Date: 27/06/2023
Summer-2023.

Session

Register & Branch

Subject with Code

Name of the Faculty Member

2nd Sem., Mechanical

Engg. Mechanics (TH-A)

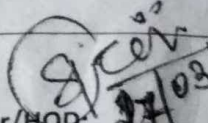
Er. M. Sushanta Kumar.

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
March	1st	22/03/23	<u>Ch-1: Fundamental of Engg. Mechanics</u> (14)
		23/03/23	1 fundamentals: Definition of Mechanics Statics, Dynamics, Rigid Bodies, force & force system
		24/03/23	Resolution of a force.
		25/03/23	Composition of forces.
		29/03/23	Composition of forces.
		30/03/23	Shri Ram Navami
		31/03/23	Graphical Method: Introduction, Space dia, Vector dia, polygon law of forces.

Signature of the Faculty:

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


 27/03/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
April	1st	02/04/23	Utkal Divas
	2nd	05/04/23	Resultant of concurrent and non-concurrent force system.
		06/04/23	Moment of force: Def ⁿ & its geometrical meaning.
		07/04/23	Good Friday
		08/04/23	Moment of force: Measurement, SI. units, classification
	3rd	12/04/23	Sign. convention of moments
		13/04/23	Law of moments
		14/04/23	Maha Vishuva Sankranti/ Dr. B.R. Ambedkar Jayanti.
		15/04/23	Variignon's theorem.

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02/04/23
02/04/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
April	4th	19/04/23	Couple: Definition & S.I. units.
		20/04/23	Measurement of couple & properties of couple.
		21/04/23	Ch-2: <u>Equilibrium</u> (08) Definition & Cond ⁿ of equilibrium.
		22/04/23	Analytical condition of equilibrium.
	5th	26/04/23	Graphical condition of equilibrium.
		27/04/23	free body diagram.
		28/04/23	free body diagram.
		29/04/23	Lami's theorem - statement and derivation.

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19/03/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
May	1st	03/05/23	solving numericals
		04/05/23	Solving numericals.
		05/05/23	Budha Purnima/Birthday of Pt. Raghunath Murmu.
	2nd	06/05/23	ch-6: <u>Dynamics (06)</u>
		10/05/23	Kinematics & Kinetics, Principle of Dynamics
		11/05/23	↳ Newton law's of motion, Motion of particles, Eq ⁿ of motion, De-Albert's Principle
		12/05/23	↳ Work, power and Energy & its application
		13/05/23	↳ K.E & P.E & its application
		17/05/23	Momentum & Impulse, Conservation of energy & linear momentum
3rd	17/05/23	Collision of elastic bodies and Co-efficient of Restitution.	

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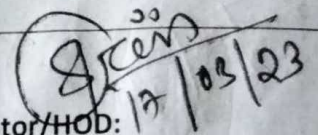
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10/03/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
May	3rd	18/05/23	Ch-3 : Friction (10) Def ⁿ of friction, frictional forces.
		19/05/23	Sabitri Amabarya.
		20/05/23	Limiting frictional force, Co-efficient of friction.
	4th	24/05/23	Angle of friction & Repose
		25/05/23	Laws of friction Adv. & disadv. of friction.
		26/05/23	Equilibrium of bodies on level plane
		27/05/23	force applied on horizontal.
5th	31/05/23	force applied on inclined plane (up & down)	

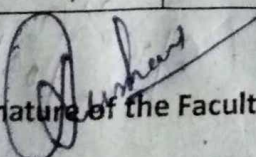
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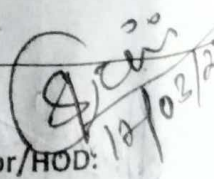
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17/05/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
June	1st	01/06/23	Solve numericals.
		02/06/23	Ladder friction & solve numericals
		03/06/23	Wedge friction & solve numericals.
	2nd	07/06/23	<u>ch-4: Centroid & Moment of Inertia (14)</u>
			Centroid: Def ⁿ , Moment of an area about an axis.
			Centroid of geometrical fig.s: Square & Rectangles.
		Centroid of geometrical fig.s: triangles & Circles	
	08/06/23	Centroid of geometrical fig.s: Semicircle & Quarter Circles.	

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
June	1 st	09/06/23	Centroid of Composite figures. Solve numericals.
	2 nd		Solve numericals.
	3 rd		Moment of Inertia - Def ⁿ Parallel axis theorem.
	4 th	10/06/23	perpendicular axis theorem. Solve numericals.
	5 th	11/06/23	M.I. of plane lamina. Solve numericals.
	6 th	12/06/23	Solve numericals.

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17/03/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
June	4th	13/06/23	M.F. of Diff. Engg. Sections
		16/06/23	Solve numericals.
			Solve numericals.
			<u>Ch-5: Simple Machines (08)</u>
		17/06/23	Def ⁿ of Simple m/c, V.R. of Simple & Compound gear train
		21/06/23	Explain Simple & Compound Lifting machine.
			Define M.A., V.R. & efficiency & state relation bet ⁿ them

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17/06/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
	5th	22/06/23	State law of m/c, Reversibility of m/c, self-locking m/c
		23/06/23	Study of simple m/c - Simple axle and wheel.
		24/06/23	Single & double purchase crab winch Worm & worm wheel. Screw jack.
		28/06/23	Types of hoisting m/c like derricks etc Use & working principle of hoisting m/c

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Signature
19/08/23