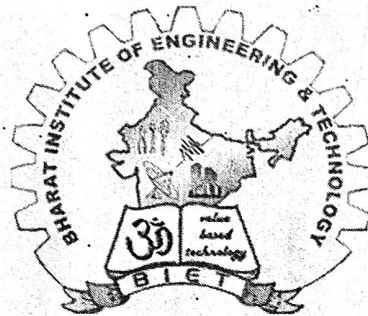


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BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time. Day	9:55	1:55	2:45
Mon		✓	
Tue			
Wed	✓		
Thu			✓
Fri			
Sat		✓	

Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	5 th sem @ Mechanical Eng
Subject with Code	Mechatronics 75-4
Name of the Faculty Member	@ Soutamrayan Pradhan
No of Weeks:	No of Class Allotted/Week:

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic	
A u g u s T	1st	2.8.23	INTRODUCTION TO MECHATRONICS :- → Definition of mechatronics.	
		3.8.23	→ Advantages & disadvantages of Mechatronics.	
			5.8.23	→ Application of Mechatronics.
	2nd	7.8.23	→ Scope of mechatronics in Industrial Sector.	
		9.8.23	→ Components of a mechatronics system.	
			→ Importance of mechatronics in automation.	
			10.8.23	2. <u>SENSORS AND TRANSDUCERS</u> :- → Definition of Transducers.
			12.8.23	→ Classification of Transducers.
			14.8.23	
		3rd		

Signature of the Faculty:

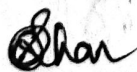
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Signature of the Principal/Course Co-ordinator/HOD:

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
		16.8.23 17.8.23	→ Electromechanical Transducers
		19.8.23	→ Transducers Actuating Mechanisms.
	4th	21.8.23	→ Displacement & position sensors.
		23.8.23 24.8.23	→ Velocity, motion, force and pressure sensors.
		26.8.23	→ Temperature and light sensors.
			A3. → ACTUATORS - MECHANICAL, ELECTRICAL
	5th	28.8.23	→ Mechanical Actuators.
		31.8.23	→ Machine, kinematic Line, kinematic pair.
September	1st	2.9.23	→ Mechanism Slider Crank mechanism
	2nd	4.9.23	→ Belt, & Belt drive.
		4.9.23	→ Bearings..

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	
S F P T F M B F R November October	3rd		<u>Electrical Actuators</u> :-	
		7.9.23	→ switches and relay.	
		7.9.23	→ Solenoid.	
		9.9.23	→ D.C. Motors.	
		11.9.23	→ A.C. motors.	
		13.9.23	→ Stepper motors.	
		14.9.23	→ Specification and Control of Stepper motors.	
		16.9.23	→ Servo motors D.C. & A.C.	
				<u>4. PROGRAMMABLE LOGIC CONTROLLERS (PLC)</u>
		18.9.23	→ Introduction.	
		21.9.23		
		23.9.23	→ Advantages of PLC.	
		25.9.23		
		27.9.23	→ Selection and uses of PLC.	
28.9.23				
30.9.23	→ Architecture basic internal structures.			
4.10.23				

Signature of the Faculty:

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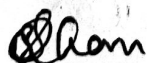
Signature of the Principal/Course Co-ordinator/HOD:

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic	
O C T O B E R	2nd	5.10.23	→ Input/output processing and programming.	
		7.10.23		
	3rd	9.10.23	→ Mnemonics.	
		11.10.23		
		12.10.23	→ Master and jump Controllers.	
		16.10.23		
		17.10.23		
		18.10.23		
	November		19.10.23	→ Introduction to Numerical Control of machines and CAD/CAM.
			30.10.23	→ N.C. Machines.
→ CNC machines.				
1.11.23			→ CAD/CAM.	
	→ Software and hardware for CAD/CAM.			

Signature of the Faculty:



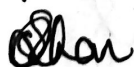
Signature of the Principal/Course Co-ordinator/HOD:



B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
N O V E M B E R		20.11.23	→ Spindle and Spindle Bearings
		22.11.23	6. Robotics :- → Definition, function and laws
		23.11.23	of robotics.
		25.11.23	→ Types of industrial robots.
		29.11.23	→ Robotic Systems.
		30.11.23	→ Advantages and Disadvantages of robots.

Signature of the Faculty:



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



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