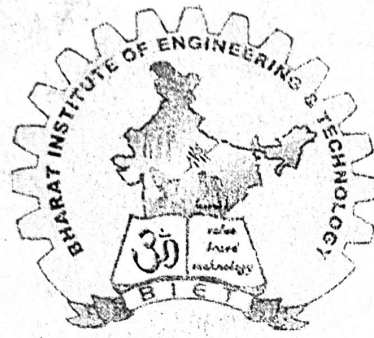


5th Mech - 'A'

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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
























STUDENT'S ATTENDANCE REGISTER











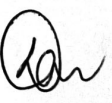



Time	9:05	11:35	12:25	2:55
Day				
M		✓		
W			✓	
Th	✓			
S				✓

Year/Session	W - 22	24 - 15-9-22 to 22-12-22
Semester & Branch	5th sem Mechanical Engg	
Subject with Code	(Th4) Mechatronics	
Name of the Faculty Member	Santyanarayana Prasadam	














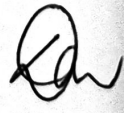
B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
D. Course Contents			
1.0 Introduction To Mechatronics			
1.1 Definition of Mechatronics	15.9.22		
1.2 Advantages & disadvantages of Mechatronics			
1.3 Application of Mechatronics	19.9.22		
1.4 scope of Mechatronics	21.9.22		
1.5 Components of a Mechatronics system	22.9.22		
1.6 Importance of mechatronics in automation	24.9.22		
2.0 Sensors And Transducers			
2.1 Definition of Transducers	26.9.22		
2.2 classification of Transducers	28.9.22		
2.3 Electromechanical Transducers	29.9.22		
2.4 Transducers Actuating Mechanisms	12.10.22		
2.5 Displacement & Position sensors	13.10.22		
2.6 velocity, motion, force and pressure sensor.	15.10.22		
2.7 Temperature and light sensors	17.10.22		
3.0 Actuators - Mechanical Electrical	19.10.22		
3.1 Mechanical Actuators	20.10.22		
3.1.1 Machine, kinematic link, kinematic pair	21.10.22		
	26.10.22		
	27.10.22		
	29.10.22		

B.I.E.T. SYLLABUS COVERAGE



TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
3.1.2 Mechanism, slider crank, Mechanism	3/10.22		
3.1.3 Gear Drive, spur gear, Bevel gear, Helical gear.	1.11.22		
3.1.4 Belt & Belt drive	3.11.22		
3.1.5 Bearing			
3.2 Electrical Actuator	5.11.22		
3.2.1 Switches and relay	7.11.22		
3.2.2 Solenoid			
3.2.3 D.C Motors			
3.2.4 A.C Motors	9.11.22		
3.2.5 Stepper Motors			
3.2.6 Specification and control of Stepper motors	10.11.22		
3.2.7 Servo Motors D.C & A.C			
4.0 Programmable Logic Controllers (PLC)			
4.1 Introduction	12.11.22		
4.2 Advantages of PLC	14.11.22		
4.3 Selection and uses of PLC	16.11.22		
4.4 Architecture basic internal structures	17.11.22		
4.5 Input/output processing and programming	19.11.22		
4.6 Mnemonics	21.11.22		
4.7 Master and Slave Controllers	23.11.22		
	24.11.22		
	26.11.22		
	28.11.22		
	30.11.22		
	1.12.22		
	3.12.22		
	5.12.22		
	7.12.22		

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
5.0 Elements OF CNC Machines	8.12.22		
5.1 Introductions to numerical control of machines and CAD/CAM	10.12.22		
5.1.1 NC Machines	12.12.22		
5.1.2 CNC Machines			
5.1.3 CAD/CAM			
5.1.3.1 Soft CAD	14.12.22		
5.1.3.2 CAM			
5.1.3.3 Software and hardware for CAD/CAM	15.12.22		
5.1.3.4 Functioning of CAD/CAM System	17.12.22		
5.1.3.5 Application areas for CAD/CAM			
5.2 elements of CNC machines	19.12.22		
5.2.1 Introduction			
5.2.2 Machine structure	29.12.22		
5.2.3 Guideways / slide ways			
5.2.3.1 Introduction and types of Guideways	2.12.22		
5.2.3.2 Factors of design of guideways			
5.2.4 Drive	} External clerk		
5.2.4.1 spindle drive			
5.2.4.2 feed drive			

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
5.2.5 spindle and Spindl bearings	EXTRA CLASSES		
6.0 ROBOTICS			
6.1 Definition, function and laws of robotics			
6.2 Types of industrial robots			
6.3 Robotic systems			
6.4 Advantages and disadvantages of robots			