BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

SUBJECT: MECHATRONICS (TH 4)

FACULTY: Er. Prabir Ku. Swain

SEC: A

SEMESTER: 5TH

ACCADEMIC SESSION: 2024-25

H.O.D (MECH. Engg.)

BHUBANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

3RD				2ND					1ST			Week	Engineering Subject: Mechatronics	Discipline: Mechanical
18- JUL -2024	16- JUL -2024		12- JUL -2024	11- JUL -2024	10-JUL-2024	09- JUL -2024	05-JUL-2024	04- JUL -2024	03-JUL-2024		02 -JUL-2024	Class Day	No. of Days/ per week class (TUE-1 period, Wed Fri -1	Semes
1	-	_	1	1	1	1	1				•	No of period available	No. of Days/ per week class allotted: 04periods per week (TUE-1 period, Wed-1 period, Thu-1 period, Fri -1 period)	Semester: 5 th A
	6.2 Types of industrial robots	6.2 Types of industrial robot	6.1 Definition, Function and laws of robotics	Previous year semester question unscassor	1.6 Importance of mechanomes in discussion	1.5 Components of the service in automation	1.5 Components of a Mechatronics System	1.4 Scope of Mechatronics in Industrial Sector	1.3 Application of Mechatronics	1.2 Advantages & disadvantages of Mechatronics.	1.1 Definition of Mechatronics	1.0 INTRODUCTION TO MECHATRONICS	Semester From Date: 01-07-2024 To Date: 11-11-2024 No. of weeks: 19 weeks Theory Topics	Name of the teaching many Er. PRABIR KUMAR SWAIN

34

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

						-						1					THE REAL PROPERTY.		
		н10							5TH										
10- AUG -2024		08- AUG -2024	07- AUG -2024		05- AUG -2024		03- AUG -2024		01-AUG-2024	31- JUL -2024	30C-JUL-2024		26- JUL -2024	25-JUL-2024	24- JUL -2024	23-JUL-2024	19- JUL -2024		
	1	1					-		1	1		1	1	1	1	1		DESCONT LIEU	
	5.2.1 Introduction	2 Elements of CNC machines	system E 1 3 5 Application greas for CAD/CAM	5.1.3.4 Features and characteristics of CAD/CAM	system	5.1.3.4 Features and characteristics of CAD/CAM		5.1.3.4 Functioning of CAD/CAM system	5.1.3.2 CAM	0.1.0.1	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	5.1.2 CNC machines	5.1.2 CNC machines	CLASS TEST-01	Previous year semester question discussion	6.4 Advantages and disadvantages	d dispersions of robots	6.3 Robotic systems	

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING

				HI8				71H			
	23- AUG -2024	22- AUG -2024	21- AUG -2024		20- AUG -2024	17-AUG-2024		16- AUG -2024	14- AUG -2024	12- AUG -2024	
1		1			1			1		1	LESSON PLAN
	Previous year semester question discussion	5.2.4.2Feed drive 5.2.5 Spindle and Spindle Bearings		5.2.4.2Feed drive 5.2.5 Spindle and Spindle Bearings	5.2.4 Drives 5.2.4.1 Spindle drives		5.2.4 Drives 5.2.4.1 Spindle drives	5.2.3.2 Factors of design of games	5.2.3 Guideways/Slide ways	3.2.2 Machine on decime	622 Machine Structure

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

	11TH					10TH				9TH				
TO 000	10- SEP -2024	09- SEP -2024	06-SEP-2024	05- SEP -2024		03- SEP -2024	02-SEP-2024	30- AHG -2024	29- AUG -2024			27- AUG -2024	period)	No. of Days/ per week class allotted: 04periods per week (MON-1 period, TUE-1 period, Thu-1 period, Fri -1
	1	1				1	1	1		1		1		
	4.6 Mnemonics 4.7 Master and Jump Controllers	4.5 inpuroupur roccosms and a common	1.5 Least Orocessing and Programming	4.5 Input/output Processing and Programming	4.5 Input/output Processing and Programming	4.5 Input/output Processing and Programming	4.4 Architecture basic internal structures	4.2 Advantages of PLC Selection and uses of PLC		4.1Introduction	CONTROLLERS(PLC)	A DECCHAMMARI F LOGIC	CLASS TEST-02	

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

30- SEP -2024 01-OCT-2024
27- SEP -2024
26- SEP -2024
24- SEP -2024
23- SEP -2024
20- SEP -2024
19-SEP-2024
17- SEP -2024
13- SEP -2024
12- SEP -2024
LESSON PLAN

BHUBANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

18TH			
01-NOV-2024 04-NOV-2024 05-NOV-2024 08-NOV-2024 11-NOV-2024 12-NOV-2024	REVISION		
01-NOV-2024 04-NOV-2024 05-NOV-2024 07-NOV-2024 11-NOV-2024 12-NOV-2024	REVISION		19TH
01-NOV-2024 04-NOV-2024 05-NOV-2024 07-NOV-2024 11-NOV-2024 12-NOV-2024	REVISION		
01-NOV-2024 04-NOV-2024 05-NOV-2024 08-NOV-2024 11-NOV-2024	REVISION	12-NOV-2024	
01-NOV-2024 04-NOV-2024 05-NOV-2024 08-NOV-2024	REVISION	11-NOV-2024	
01-NOV-2024 04-NOV-2024 05-NOV-2024	REVISION	08-NOV-2024	
	REVISION	07-NOV-2024	HT81
	REVISION	05-NOV-2024	
	REVISION	04-NOV-2024	
	3.2./ Servo Motors D	01-NOV-2024	