BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

SUBJECT: MECHATRONICS (TH 4)

FACULTY: Er. Prabir Ku. Swain

Aubin when such,

ACCADEMIC SESSION: 2024-25

SEMESTER: 5TH

SEC: B

H.O.D (MECH. Engg.)

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

			3RD				2ND					TSI		Week	Mechatronics	Subject:	Engineering	Mechanical	Discipline:	
19- JUL -2024	10-201 505.	18_ -2024	15- JUL -2024	25 111 2024	13- JUL -2024	12-300-204-	12 -2024	11- JUL -2024	08- JUL -2024	06-JUL-2024		05- JUL -2024	04 -JUL-2024	Class Day	Sat -1 period)	No. of Days, per week class another. or period, Mon-1 period. Thu-1 period, Fri-1 period,	ST CD was wook class allotte		Semester: 5 th B	
1		-	-	_			_	1	1			1		No of period available	1)	od, Fri-1 period,	d: 04neriods per week		В	
	6.2 Types of industrial robots	6.2 Types of Industrial Topoc	on the profit in the profit is the profit in	6.1 Definition, Function and laws of robotics	60 ROROTICS	Previous year semester question discussion	1.6 Importance of mechatronics in automation	1.5 Components of a Mechatronics System	1.4 Scope of Micchanomes in Scotom	1 (See 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	No. 01 Weeks: 17 Weeks	Semester From Date: 01-08-2024 10 Date: 11-11	2024 To Date: 11-11-2024		Name of the teaching American	Transfer to teaching faculty:

B

BHUBANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING

		0111	нту						51H										4TH		
10- Aug -2024		09- Aug -2024		08- Aug -2024	000	05- Aug -2024	03- Aug -2024	03 Aug -2024	02-Aug-2024	01-Aug-2024		29- JUL -2024	27- JUL -2024		26- 1111 -2024	25- JUL -2024	22- JUL -2024			20- JUL -2024	
	5.2.1 Introduction	1 2 Flements of CNC machines	5.1.3.5 Application ar	1 system	5.1.3.4 Features and		5.1.3.4 Features and	1 5 1 3 4 Functioning of	1 5.1.3.2 CAM		5.1.3.1 CAD	1 5.1.2 CNC machines	5.1.2 CNC machines	, , ,	CLASS TEST-01	1 Previous year semester question	n a comparator	1	6.4 Advantages and disadvantages of robots		LESSON PLAN 6.3 Robotic systems
		achines	Application areas for CAD/CAM		Features and characteristics of CAD/CAM		Features and characteristics of CAD/CAM	Functioning of CAD/CAM system									question discussion		sadvantages of robots		

BHUBANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING

	09TH				HT8				7TH		
30-Aug-2024	29- Aug -2024	23- Aug -2024			22- Aug -2024	TUE-2P, THU-1P, FRI-1P	No. of Days/ per week class allotted: 04periods per week	17- Aug -2024	16- Aug -2024	12- Aug -2024	
1	1		1		1	-1P	l: 04periods per week	1	1	1	LESSON PLAN
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 Guideways/Slide ways 5.2.3 Pactors of design of guideways	O.E. E. Marie	5 2 2 Machine Structure

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING

	13TH				1211	10711			HT11			10TH			
27- Sep -2024	26- Sep -2024	24- Sep -2024	20- Sep -2024		19- Sep -2024	17- Sep -2024	13- Sep -2024	12- Sep -2024	10- Sep-2024		06- Sep -2024		05- Sep -2024	03-Sep-2024	
1	1	2	1		1	2	1	1			_		1	2	LESSON PLAN
Definition of Transducers	Previous year semester question discussion	4.7 Master and Jump Controllers	4.6 Mnemonics	4.5 Input/output Processing and Programming	4.4 Architecture basic internal structures	Selection and uses of PLC	4.2 Advantages of PLC	4.1Introduction	4.0 PROGRAMMABLE LOGIC CONTROLLERS(PLC)	CLASS TEST-02	Previous year semester question discussion	discussion discussion			

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

17TH		16TH				15TH								14TH					
29- Oct -2024	25- Oct -2024	24- Oct -2024		22- Oct -2024	18- Oct -2024					17- Oct -2024		15- Oct -2024		04- Oct -2024	03-Oct-2024		01-Oct-2024		
2	1	1		2		-	-			1		2		1		1	t	2	THOUGHT A MINI
3.2 Electrical Actuator	3.1.4 Belt & Belt drive	gear, worm gear	3.1.3 Gear Drive, Spur gear, Bevel gear, Helical	3.1.2 Mechanism, Slider crank Mechanism		3.1.1 Machine, Kinematic Link, Ninchatic 1 and	Tiel Vinamatic Dair	3.1 Mechanical Actuators	3.0 ACTUATORS-MECHANICAL, ELECTRICAL	2./ Temperature and figur schools	and light concord	2.6 Velocity, motion, force and pressure sensors	2.5 Displacement &Positions Sensors	2.4 Transducers Actuating Mechanisms		2.3 Electromechanical Transducers		2.2 Classification of Transducers	

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