5TH SEM 01.10.2021-08.01.2022(WINTER)

LESSON PLAN

MECHATRONICS

ER. M.B.BISWABANDITA

(AUTOMOBILE ENGG.DEPT)

B.O.S.E., CUTTACK



AUTOMOBILE ENGINEERING DEPATMENT

VISSION:

and technical skills useful to the learning / teaching community and the industrial fraternity. To develop competent, disciplined imaginative Automobile engineers, equipped with core competency

MISSION:

automotive engineering. M1:To provide with operational and technical inputs to get innovative and research ideas in the field of

M2: To give inputs for higher education with management qualities for the betterment of the society.

M3:Skilling with modern engineering tools necessary to meet and solve engineering problems

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: To provide technical skills to diagnose and apply the concept of automotive system

challenges PEO2: To prepare to design, fabricate and innovate in automobile sector to face the industrial

key role in automotive industry. PEO3: To inculcate with good communication skills, ethics and entrepreneurship skills to play the

cipline:-Automobile Engg. ject Name :- CHATRONICS ek	eek Class eriods/Week nesday, y- 1 Period	Name of the teaching faculty :- M.B.BISWABANDITA Semester from Date -01/10/2021 To Date -08/01/2021 No.of Weeks:15
ject Name :- CHATRONICS	lok N	Semester from Date -01/10/2021 To Date -08/01/2021 No.of Weeks:15
ek		
		Theory topics
1.10.2021		1.0 Introduction of mechatronics system
5.10.2021		1.1 Definition of mechatronics
		1.2 Advantages disadvantages of mechatronics systems
8.10.2021		1.3 Application of mechatronics
		1.4 Scope of mechatronics
9.10.2021		1.5 Components of mechatronics system
		1.6 Importance of mechatronics system
3 rd		
11.10.202	11.10.2021 -20.10.21	Druga puja holidays
4 th		CH-2.0 Sensors and transducers
22.10.2021		2.1definition of transducers and its types
23.10.2021		2.2 classification of transducers
26 10 2021		2.3 electromechanical transducers
27.10.2021	1	2.4 transducer actuating mechanism
29.10.2021	11	2.5displacement and position sensor
30.10.2021	11	2.6 velocity, motion, force&pressure sensor
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2.11.2021		2.7 temprature&light sensor
		3.0 actuators- electrical&mechanical
	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	3.1 mechanical actuators

10.12.2021	08.12.2021	07.12.2021	04.12.2021	03.12.2021	01.12.2021	30.11.2021		27.11.2021	26.11.2021	24.11.2021	23.11.2021	20.11.2021	17.11.2021		16.11.2021	13.11.2021	12.11.2021	10.11.2021		9.11.2021	6.11.2021	5.11.2021	04.11.2021	3.11.2021
5.2.2 Machine Structure, 5.2.3 Guide wise/Side wise	5.2 Elements of CNC Machine.5.2.1 Introduction to CNC	5.1.3.5 Features and characteristics of CAD/CAM ,5.1.3.6 Application Area of CAD/CAM.	CAD/CAM CAD/CAM	-	10	5.1 introduction to CNC M/C & CAD/CAM ,5.1.1 NC M/C	5.0 Elements of CNC M/c	CLASS TEST	4.7 master & jump control	4.5 l/p o/p processing & programming ,4.6 Mnemonics	4.4 architecture basic internal structures	4.3 selection and uses of plc	4.1 introduction to plc & 4.2 advantages of plc	4.0 PLC	3.2.6 specification of stepper motor& 3.2.7 DC &AC Servo	3.2.4 AC motor,&3.2.5 Stepper motor	3.2.2 Solenoid,3.2.3 DC motor	3.2.1 switches& relay , *****CLASS TEST	3.2 electrical actuators	3.1.4 belt and belt drive&3.1.5 bearings	3.1.3 gear drive, spur bevel, helical, worm gear	3.1.2 slider crank mechanism	DIWALI/KALIPUJA HOLIDAY	3.1.1 machine, kinematic, kinematic pair

Doubt cleding classes	00.01.2022
	00 01 0000
VST-2	07.01.2022
VST-1	05.01.2022
Revision	04.01.2022
	15 th
Revision	01.01.2022
Different Robotics applications	31.12.2021
6.4 Advantages & Disadvantages of Robots	29.12.2021
6.3 Robotics system	28.12.2021
	14 th
Short Type Questions Discussion	24.12.2021
6.2 Types of industrial robots	22.12.2021
6.1Definition, Function & Laws of Robotics	21.12.2021
CH-6.0 Robotics	13 th
Coole in the cool of and class 1 coe	
Assignment Work and Class Tast	18 17 2021
5.2.5 Spindle and Spindle Bearing	17.12.2021
5.2.4.2 Feed Drive	15.12.2021
5.2.4.1 Spindle Drive	14.12.2021
	12 th
5.2.4 Drives,	11.12.2021