

ACADEMIC SESSION: 2023-24 (Winter-2023)

Discipline : Mechanical Engineering		Semester : 3rd	Name of the Teaching Faculty : Baneswar Munda Designation: Workshop Superintendent	
Subject : Mechatronics (Th.4)		Semester From date: 01/08/2023 to 30/11/2023		
SL NO.	DATE	CHAPTER	THEORY TOPIC NAME	N0.OF PERIODS
1	03.08.23	10..INTRODUCTION TO MECHATRONICS	Definition of Mechatronics, Advantages & disadvantages of Mechatronics	1
2	07.08.23		Application of Mechatronics	1
3	10.08.23		Scope of Mechatronics in Industrial Sector	1
4	14.08.23		Components of a Mechatronics System	1
5	17.08.23		Importance of mechatronics in automation	1
6	21.08.23	3.0 MECHANICAL ACTUATOR	Machine, Kinematic Link, Kinematic Pair	1
7	24.08.23		Mechanism, Slider crank Mechanism	1
8	28.08.23		Gear Drive, Spur gear, Bevel gear, Helical gear, worm gear	1
9	04.09.23		Helical gear, worm gear	1
10	07.09.23		Belt & Belt drive ,Bearings	1
11	11.09.23	5.0 ELEMENTS OF CNC MACHINES	Introduction to Numerical Control of machine	1
12	14.09.23		Numerical Control machines	1
13	18.09.23		Computer Numerical Control machines	1
14	21.09.23		Introduction to CAD/CAM	1
15	25.09.23		Software and hardware for CAD/CAM	1
16	28.09.23		Functioning of CAD/CAM system	1
17	05.10.23		Features and characteristics of CAD/CAM system	1
18	05.10.23		Introduction ,Machine Structure, Application areas for CAD/CAM	1

19	09.10.23	5.0 ELEMENTS OF CNC MACHINES	Introduction ,Machine Structure, Application Guide ways/Slide ways	1
20	12.10.23		Introduction and Types of Guideways	1
21	16.10.23		Factors of design of guideways	1
22	19.10.23		Drives	1
23	02.10.23		Spindle drives	1
24	06.10.23		Feed drive	1
25	09.10.23		Spindle and Spindle Bearings	1
26	13.11.2023	6.0 ROBOTICS	Definition, Function and laws of robotics	1
27	16.11.2023		Types of industrial robots	1
28	20.11.2023		Robotic systems	1
29	23.11.2023		Advantage of robots	1
30	30.11.2023		Disadvantages of robots	1
			TOTAL CLASS	30

Prepared By

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w/s Superintendent
C. P, Sonapat.

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21.9.23
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Prayak
20/7/23
Academic Coordinator