LESSON PLAN.													
5th SEMESTER W.E.F-19/9/2022 Total Period :- 60													
SUBJECT-MECHATRONICS (Sub code-TH4) Theory periods: 4 P/WEAKLY Teacher :- CHANDRASEKHAR DASH (PTGF, MECHANICAL ENGINEERING DEPT.)													
SL N O	MON TH	We ek	Date	UNIT NO/P ERIO D ALLO TED	TANDRASERHAR DASH (PTGF, MECHANICAL ENGIN	Topic actually covered as per Syllabus	) if any/sylla bus	remarks					
1			19-Sep-22	5	UNIT-1 Definition of Mechatronics	covered	Nill						
2		4TH	20-Sep-22		Advantages & disadvantages of Mechatronics, Application of Mechatronics	covered	Nill						
3			21-Sep-22		Scope of Mechatronics in Industrial Sector	covered	Nill						
4	SEPT		23-Sep-22		Components of a Mechatronics System	covered	Nill						
5			26-Sep-22		Importance of mechatronics in automation	covered	Nill						
6		5TH	27-Sep-22		UNIT-2 Defination of Transducers	covered	Nill						
7		510	28-Sep-22		Classification of Transducers	covered	Nill						
8			30-Sep-22		Electromechanical Transducers	covered	Nill						
9			10-Sep-22		Transducers Actuating Mechanisms	covered	Nill						
10		3RD	11-Sep-22	10	Displacement & Positions Sensors	covered	Nill						
11			12-Sep-22		Velocity, motion Sensors	covered	Nill						
12			14-Oct-22		force and pressure sensors	covered	Nill						
13			17-Oct-22		Temperature sensors	covered	Nill						
14			18-Oct-22		light sensors.	covered	Nill						
15	ост	4TH	19-Oct-22		Temperature and light sensors.	covered	Nill						
16	001		21-Oct-22	10	UNIT-3 Mechanical Actuators, Machine, Kinematic Link, Kinematic Pair	covered	Nill						
17			24-Oct-22		Mechanism, Slider crank Mechanism	covered	Nill						
18		5TH	25-Oct-22		Gear Drive, Spur gear, Bevel gear, Helical gear, worm gear	covered	Nill						
20		• • • •	26-Oct-22		Belt & Belt drive , Bearing	covered	Nill						
21			28-Oct-22		Electrical Actuator, Switches and relay	covered	Nill						
22			31-Oct-22		Solenoid	covered	Nill						
23			1-Nov-22		D.C Motors, A.C motors	covered	Nill						
24		1ST	2-Nov-22		Stepper Motors	covered	Nill						
25			4-Nov-11		Specification and control of stepper motors	covered	Nill						
26			7-Nov-22		Servo Motors D.C & A.C	covered	Nill						
27		2ND	8-Nov-22		UNIT-4 PROGRAMMABLE LOGIC CONTROLLERS(PLC)	covered	Nill						
28			9-Nov-22	15	Introduction	covered	Nill						
29			11-Nov-22		Advantages of PLC	covered	Nill						
30			14-Nov-22		Selection and uses of PLC	covered	Nill						
31	NOV	3RD	15-Nov-22		Selection and uses of PLC	covered	Nill						
32			16-Nov-22		Architecture basic internal structures	covered	Nill						
33			18-Nov-22		Architecture basic internal structures	covered	Nill						
34			21-Nov-22		Input/output Processing and Programming	covered	Nill	ļ					
35		4TH	22-Nov-22		Input/output Processing and Programming	covered	Nill						
36			23-Nov-22		Input/output Processing and Programming	covered	Nill						
37			25-Nov-22		Mnemonics	covered	Nill						

38			28-Nov-22		Mnemonics	covered	Nill	
39		5TH	29-Nov-22		Master and Jump Controllers	covered	Nill	
40			30-Nov-22		Master and Jump Controllers	covered	Nill	
41		1ST	2-Dec-22		Master and Jump Controllers	covered	Nill	
42			5-Dec-22	15	UNIT-5 Introduction to Numerical Control of machines and CAD/CAM			
43		2ND	6-Dec-22		NC machines, CNC machines			
44			7-Dec-22		Software and hardware for CAD/CAM			
45		3RD	9-Dec-22		Functioning of CAD/CAM system			
			12-Dec-22		Application areas for CAD/CAM			
46			13-Dec-22		Features and characteristics of CAD/CAM system,			
47			14-Dec-22		elements of CNC machines			
48	DEC		16-Dec-22		Machine Structure			
49			19-Dec-22		Introduction and Types of Guideways			
50		4TH	20-Dec-22		2 Factors of design of guideway			
51			21-Dec-22		Drives			
52			23-Dec-22		Spindle drives			
53		5TH	26-Dec-22		Feed drive			
54			27-Dec-22		Spindle and Spindle Bearings			
55			28-Dec-22		Spindle and Spindle Bearings			
57			30-Dec-22		UNIT-6 Definition, Function and laws of robotics			
58		1ST	2-Jan-23	5	Types of industrial robots			
59			3-Jan-22		Robotic systems			
			4-Jan-22		Robotic systems			
60	JAN		6-Jan-22		Advantages and Disadvantages of robots			
	2N	2ND	9-Jan-22		Revision			
			10-Jan-22		Revision			
			11-Jan-22		Revision			

Chandrasekhar Dash