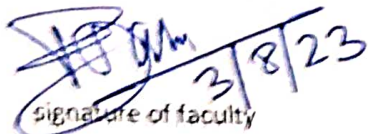


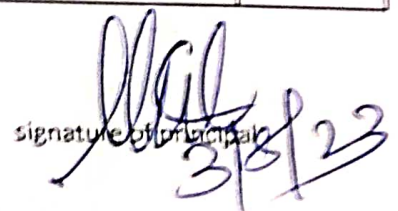
SESSION:		WINTER 2023				
BRANCH:		MECHANICAL ENGINEERING				
SEMESTER:		5TH SEC-B				
SUBJECT:		MECHATRONICS TH-4				
NAME OF THE FACULTY:			RAJEEB LOCHAN DASH			
SL NO.	MONTH	CHAPT. NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% COVERED
1	AUGUST	1	4/8/2023	1.1 Definition of Mechatronics	18	85%
			5/8/2023	1.2 Advantages & disadvantages of Mechatronics		
			11/8/2023	1.3 Application of Mechatronics		
			12/8/2023	1.4 Scope of Mechatronics in Industrial Sector		
			18/8/23	1.5 Components of a Mechatronics System		
			19/8/23	1.6 Importance of mechatronics in automation		
		2	21/8/23	2.1 Definition of Transducers		
			22/8/23	2.2 Classification of Transducers		
			25/8/23	2.3 Electromechanical Transducers		
			26/8/23	2.3 Electromechanical Transducers		
			28/8/23	2.4 Transducers Actuating Mechanisms		
			29/8/23	2.5 Displacement & Positions Sensors		
2	SEPT.	2	1/9/2023	2.6 Velocity, motion, force and pressure sensors	15	84%
			2/9/2023	2.6 Velocity, motion, force and pressure sensors		
			4/9/2023	2.7 Temperature and light sensors		
			5/9/2023	3.1.1 Machine, Kinematic Link, Kinematic Pair		
		8/9/2023	3.1.2 Mechanism, Slider crank Mechanism			
		9/9/2023	3.1.3 Gear Drive, Spur gear, Bevel gear, Helical gear, worm gear			
		11/9/2023	Gear Drive, Spur gear, Bevel gear, Helical gear, worm gear			
		12/9/2023	3.1.4 Belt & Belt drive			
		15/9/23	3.1.5 Bearings			
		22/9/23	3.2.1 Switches and relay			
		23/9/23	3.2.2 Solenoid			
		25/9/23	3.2.3 D.C Motors			
	26/9/23	3.2.4 A.C Motors				
	SEPT.	3	29/9/23	3.2.5 Stepper Motors		
			30/9/23	3.2.6 Specification and control of stepper motors		
	OCT.	3	3/10/2023	3.2.7 Servo Motors D.C & A.C		
			6/10/2023	3.2.7 Servo Motors D.C & A.C		

3	OCT.	4	7/10/2023	4.3 Selection and uses of PLC Architecture basic internal structures	7	14%
			9/10/2023	4.5 Input/output Processing and Programming Mnemonics		
		10/10/2023	4.7 Master and Jump Controllers			
	5	13/10/23	5.1.1 NC machines CNC machines CAD/CAM			
		31/10/23	CAD CAM			
4	NOV.	5	3/11/2023	5.1.3.3 Software and hardware for CAD/CAM Functioning of CAD/CAM system	9	20%
			4/11/2023	5.1.3.4 Features and characteristics of CAD/CAM system Application areas for CAD/CAM		
			6/11/2023	5.2.2 Machine Structure Guideways/Slide ways		
			7/11/2023	5.2.3.1 Introduction and Types of Guideways Factors of design of guideways		
			10/11/2023	5.2.4.1 Spindle drives Feed drive Spindle and Spindle Bearings		
		6	13/11/23	6.1 Definition, Function and laws of robotics		
			14/11/23	6.2 Types of industrial robots		
			17/11/23	6.3 Robotic systems		
			18/11/23	6.4 Advantages and Disadvantages of robots		

BRIEF SUMMARY OF THE PLAN			
SL. NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% COVERAGE
1	AUGUST	CHAPT. NO.- 1 & 2	30%
2	SEPTEMBER	CHAPT. NO.- 2 & 3	34%
3	OCTOBER	CHAPT. NO.- 3, 4, & 5	16%
4	NOVEMBER	CHAPT. NO.- 5 & 6	20%

  
signature of faculty 3/8/23

  
signature of HOD 3/8/23

  
signature of principal 3/8/23