Discipline:- Mechanical Engg.	**Semester**:- **5th**	**Name of the Teaching Faculty:-** Er Sanjay ku Bisoyi
Subject:- Mechatronics	**No. Of days/week class allotted -05**	**Semester from**: 01.08.2023 To: 30.11.2023
		No. Of weeks:- 17
Week	**No. Of Period**	**Theory Topics**
01.08.2023 To 05.08.2023	1st	Definition of Mechatronics
	2nd	Advantages & disadvantages of Mechatronics
	3rd	Application of Mechatronics
	4th	Scope of Mechatronics in Industrial Sector
	5th	Components of a Mechatronics System
07.08.2023 To 12.08.2023	1st	Importance of mechatronics in automation
	2nd	Defination of Transducers
	3rd	Classification of Transducers
	4th	Electromechanical Transducers
	5th	Transducers Actuating Mechanisms
14.08.2023 To 19.08.2023	1st	Displacement &Positions Sensors
	2nd	**INDEPENDENCE DAY**
	3rd	Velocity, motion, force and pressure sensors
	4th	Mechanical Actuators
	5th	Machine, Kinematic Link, Kinematic Pair
21.08.2023 To 26.08.2023	1st	Mechanism
	2nd	Slider crank Mechanism
	3rd	Gear Drive, Spur gear
	4th	Bevel gear, Helical gear, wormgear
	5th	Belt & Belt drive

Week	No. Of period	Theory Topics
28.08.2023 To 02.09.2023	1st	Bearings
	2nd	Electrical Actuator , Switches and relay
	3rd	Solenoid D.C Motors
	4th	A.C Motors
	5th	Stepper Motors
04.09.2023 To 09.09.2023	1st	Specification and control of stepper Motor
	2nd	Servo Motors D.C & A.C
	3rd	Work done during a non- flow process
	4th	Revision
	5th	Programmable logic controllers introduction
11.09.2023 To 16.09.2023	1st	Advantages of PLC
	2nd	Selection and uses of PLC
	3rd	Architecture basic internal structures
	4th	Input/output Processing and Programming Mnemonics
	5th	Master and Jump Controllers
18.09.2023 To 23.09.2023	1st	Revision
	2nd	**GANESH CATURTHI**
	3rd	Introduction to Numerical Control of machine
	4th	CNC machines ,CAD/CAM , CAD ,CAM .
	5th	Software and hardware for CAD/CAM

Week	No. Of period	Theory Topics
25.09.2023 To 30.09.2023	1st	Revision of the previous chapter and discussion of the important question.
	2nd	Revision of the previous chapter and discussion of the important question.
	3rd	Revision of the previous chapter and discussion of the important question.
	4th	**BIRTHDAY OF MAHAMMAD**
	5th	Revision of the previous chapter and discussion of the important question.
02.10.2023 To 07.10.2023	1st	**GANDHI JAYANTI**
	2nd	Discuss short question on above chapter (2 marks)
	3rd	Discuss long question on above chapter
	4th	Class test of the first & second chapter
	5th	Functioning of CAD/CAM system
09.10.2023 To 14.10.2023	1st	Features and characteristics of CAD/CAM system
	2nd	Application areas for CAD/CAM
	3rd	Revision of the chapter
	4th	elements of CNC machine, Introduction
	5th	**MAHA LAYA**
16.10.2023 To 21.10.2023	1st	Introduction Machine Structure
	2nd	Introduction Guideways/Slide ways
	3rd	Types of Guideways
	4th	Factors of design of guideways
	5th	Revision of the chapter
23.10.2023 To 28.10.2023		**DURGA PUJA HOLIDAY**
30.10.2023 To 04.11.2023	1st	Spindle drives
	2nd	Feed drive
	3rd	Spindle and Spindle Bearings
	4th	Revision of the chapter and discuss previous year question
	5th	Revision of the chapter and discuss previous year question

Week	No.of period	Theory Topics
06.11.2023 To 11.11.2023	1st	List various types of fixtures diagram
	2nd	Revision of the previous chapter and discussion of the important question.
	3rd	Discuss short question on above chapter (2 marks)
	4th	Discussion of previous year Important question from the last chapter
	5th	Discuss long question on above chapter (10 marks)
13.11.2023 To 18.11.2023	1st	Discussion of previous year Important question from the Chapter
	2nd	Revision
	3rd	Revision
	4th	Revision
	5th	Revision
20.11.2023 To 25.11.2023	1st	Revision of the previous chapter and discussion of the important question
	2nd	**ANALA NAVAMI**
	3rd	Discuss short type of previous year asked question
	4th	Discuss previous year asked question
	5TH	Discuss the long type of theory previous year asked question
27.11.2023 To 30.11.2023	1st	**RAHAS PURNIMA**
	2nd	Revision
	3rd	Discuss the long type of theory previous year asked question