

PNS SCHOOL OF ENGINEERINGG & TECHNOLOGY,KENDRAPARA

LESSON PLAN

SEMESTER -5TH

BRANCH -MECHANICAL ENGG

SUBJECT -MECHATRONICS

NAME OF THE FACULTY MEMBER - Er. Sanyasi Swain

Month	No of Period	Date	Module /Unit	Theory Topic
SEPTEMBER	1	15.09.2022	Unit -1	Definition of Mechatronics
	2	16.09.2022		Advantages & Disadvantages of Mechatronics
	3	19.09.2022		Application of Mechatronics
	4	20.09.2022		Scope of Mechatronics, Importance of Mechatons
	5	21.09.2022		Components of a Mechatronics System
	6	22.09.2022	Unit -2	Detinition of Transducers
	7	23.09.2022		Classifaction of Transducer
	8	26.09.2022		Classification of Transducer.
	9	27.09.2022		Electromechanical Transducer
	10	28.09.2022		Transclucer Actuating Mechanism
	11	29.09.2022		Displacement & Position Sensors
	12	30.09.2022		Velocity, Motion Sensors
OCTOBAR	13	10.10.2022	Unit -3	Force & Pressure Sensors
	14	11.10.2022		Temperature Sensors
	15	12.10.2022		Light Sensors
	16	13.10.2022		Machine, kinematics link, Kinematic Pair
	17	14.10.2022		Slider Crank Mechanism
	18	18.10.2022		Gear Drive, Spur Grear, Bevel gear
	19	19.10.2022		Helical Gear, Worm Gear,
	20	20.10.2022		Belt & Belt drive, Bearings
	21	21.10.2022		Switches,relay, Solenoid
	22	26.10.2022		D.C motor, AC motors.
	23	27.10.2022		Stepper Motors
	24	28.10.2022		Specification and Control of Stepper Motors
	25	31.10.2022		Servo Motors DC & AC.
NOVEMBER	26	01.11.2022	Unit -5	Introduction of PLC
	27	02.11.2022		Advantages of PLC
	28	03.11.2022		Selection and uses of PLC
	29	04.11.2022		Architecture basic External structures
	30	09.11.2022		Architecture basic internal structures.
	31	10.11.2022		Architechiene basic internal structure,
	32	11.11.2022		Input/output Procesity & Programming
	33	14.11.2022		Input/output Procesity & Programming
	34	15.11.2022		Input/output Procesity & Programming
	35	17.11.2022		Mnemonics
	36	18.11.2022		Mnemonics
	37	21.11.2022		Master and Jump Controllers
	38	22.11.2022		Master and Jump Controllers
	39	23.11.2022		Master and Jump Controllers
	40	24.11.2022		Questions on PLC Previous years
	41	25.11.2022		NC machines & CAD/CAM
	42	28.11.2022		NC machines
	43	29.11.2022		CNC machines.
	44	01.12.2022		CAM
	45	02.12.2022		CAD

DECEMBER	46	05.12.2022	Unit -6	Software & hardware for CAD/CAM
	47	06.12.2022		Functioning of CAD/CAM system
	48	07.12.2022		Characteristics of CAD/CAM System
	49	08.12.2022		Application Area of CAD/CAM
	50	09.12.2022		Guide ways / slide ways
	51	12.12.2022		Types of Guide ways
	52	13.12.2022		Spindle drives
	53	14.12.2022		Feed drives
	54	15.12.2022		Spindle Bearings,
	55	16.12.2022		Definition of Robotics, law at Robotics
	56	19.12.2022		Types & Industrial Robots.
	57	20.12.2022		Robotic System
	58	21.12.2022		Advantages & Disadvantages of Robots
	59	22.12.2022		Revision of Robotic Sytem

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SIGNATURE OF H.O.D.

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