

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF
ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN
Session-2022-2023

Discipline: Mechanical Engg. Semester: 5th

Name of the Teaching Faculty: Shashanka Sekhar Bhoi

Subject: Mechatronics No. of Days/per week class allotted 02

Semester From Date: 15/09/2022 To Date: 22/12/2022 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
01	01	Introduction & Definition of mechatronics
	02	Advantages & disadvantages, Application of mechatronics.
02	03	Scope of Mechatronics in Industrial sector.
	04	Components of a mechatronics system
03	05	Importance of mechatronics in automation.
	06	Mechanical Actuators
04	07	Mechanism
	08	Gear Drive mechanism
05	09	Belt & Belt drive
	10	Bearings
06	11	Introduction to NC machine
	12	CNC machine

Sharang Saxhar Bhoi
Signature of the Faculty

Subject: Mechatronics No. of Days/per week class allotted 02

Semester From Date: 15/09/2022 To Date: 22/12/2022 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
07	13	CAD
	14	CAM
08	15	Software & Hardware of CAD/CAM
	16	Functioning of CAD/CAM
09	17	Features & characteristics of CAD/CAM
	18	Application of CAD/CAM
10	19	Elements of CNC machines
	20	machine structure
11	21	Guide ways/Slide ways
	22	Factors of design of guideways
12	23	Spindle drive
	24	Feed drive

Shashank Seshare Bho
Signature of the Faculty

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Semester From Date : 15/09/2022 To Date : 22/12/2022 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
13	25	Spindle and spindle bearing
	26	Introduction to Robotics
14	27	Types of Industrial Robots
	28	Robotics system
15	29	Advantages and disadvantages of Robotics
	30	Overall chapter discussion .

Chashank Saxena Bhor
Signature of the Faculty