Discipline : MECHANICAL ENGG.	**Semester** : 6TH	**Name of The Teaching Faculty :** Er.RABINDRA DASH
Subject AMP	**No Of Days/Week Class Allotted** 05	**Semester From** : 16.01.2024 To 26.04.2024
		No. Of Weeks : 15

WEEKS	CLASS DAY	THEORY
16.01.2024 TO 20.01.2024	1st	Introduction to Modern Machining Processes
	2nd	Introduction – comparison with traditional machining
	3rd	principle of Ultrasonic Machining, Description of equipment
	4th	Applications of Ultrasonic Machining,
22.01.2024 TO 27.01.2024	1st	NETAJI SUBASH CHANDRA BOSE JAYANTI
	2nd	Electric Discharge Machining: Principle, Description of equipment
	3rd	Dielectric fluid, Process parameters
	4th	REPUBLIC DAY
	5th	Output characteristics, Applications of Electric Discharge Machining
29.01.2024 TO 03.02.2024	1st	Wire cut EDM definition, Principle of Wire cut EDM
	2nd	Description of equipment, controlling parameters; applications
	3rd	Introduction to Abrasive Jet Machining, Principle of Abrasive Jet Mac
	4th	description of equipment, Material removal rate
	5th	Application of Abrasive Jet Machining, Laser Beam Machining: princip
05.02.2024 TO 10.02.2024	1st	description of equipment, Material removal rate
	2nd	Application of Abrasive Jet Machining
	3rd	*Electro Chemical Machining definition*
	4th	Principle of Electro Chemical Machining
	5th	description of equipment Electro Chemical Machining
12.02.2024TO 17.02.2024	1st	Material removal rate of Electro Chemical Machining
	2nd	Application of Electro Chemical Machining
	3rd	Plasma Arc Machining definition
	4th	Principle of Plasma Arc Machining
	5th	description of equipment of Plasma Arc Machining
19.02.2024 TO 24.02.2024	1st	Material removal rate
	2nd	Process parameters, performance characterization
	3rd	Applications of Plasma Arc Machining
	4th	Electron Beam Machining introduction, principle.
	5th	description of equipment, Material removal rate
26.02.2024 TO 02.03.2024	1st	Process parameters of Electron Beam Machining,
	2nd	performance characterization, Applications of Electron Beam Machin
	3rd	Plastic Processing definition, Processing of plastics
	4th	Moulding processes, Injection moulding
	5th	Injection moulding, Compression moulding, Transfer moulding
04.03.2024 TO 09.03.2024	1st	Extruding, Casting, Calendering
	2nd	PANCHAYAT RAJ DIVAS
	3rd	Fabrication methods, Fabrication methods, Sheet forming
	4th	MAHA SIVARATRI
	5th	Blow moulding, Laminating plastics (sheets, rods & tubes), Reinforcing
11.03.2024	1st	Applications of Plastics
	2nd	Additive Manufacturing Process introduction

TO 16.03.2024	3rd	Need for Additive Manufacturing
	4th	Fundamentals of Additive Manufacturing, AM Process Chain
	5th	Advantages and Limitations of AM, Commonly used Terms
18.03.2024 TO 23.03.2024	1st	Classification of AM process
	2nd	Fundamental Automated Processes, Distinction between AM and CN other related technologies.
	3rd	Application –Application in Design, Aerospace Industry
	4th	Automotive Industry, Jewelry Industry, Arts and Architecture
	5th	RP Medical and Bioengineering Applications
25.03.2024 TO 30.03.2024	1st	DOLO PURNIMA
	2nd	HOLI
	3rd	Web Based Rapid Prototyping Systems
	4th	GOOD FRIDAY
	5th	Concept of Flexible manufacturing process
01.04.2024 TO 06.04.2024	1st	UTKAL DIVAS
	2nd	concurrent engineering
	3rd	production tools like capstan and turret lathes
	4th	rapid prototyping processes.
	5th	Special Purpose Machines (SPM) introduction
08.04.2024 TO 13.04.2024	1st	Concept, General elements of SPM,
	2nd	Productivity improvement by SPM
	3rd	ID UL FITRE
	4th	Principles of SPM design.
	5th	Maintenance of Machine Tools introduction
15.04.2024 TO 20.04.2024	1st	Types of maintenance
	2nd	Repair cycle analysis
	3rd	Repair complexity
	4th	Maintenance manual
	5th	Maintenance records
22.04.2024 TO 27.04.2024	1st	Housekeeping. Introduction to Total Productive Maintenance (TPM).
	2nd	Revision
	3rd	Previous year short question discussion
	4th	Previous year long question discussion .
		CLOSING OF ATTENDANCE