## Lesson Plan

Subject: AMP (Th -4(b))

Name of faculty: SANGRAM BISWAL

 $Semester; \underline{6}^{TH} \quad Class \ allotted; \underline{4p/week}$ 

Branch: Mechanical

Session: <u>2024(S)</u>

Discipline	Semester	From date: To date:		
Subject:	No. of days/ per week	Theory/ Practical –Topics/Lesson	Teaching Aid	
Week	Date/Period			
	16/01/ 2024 TO	Modern Machining Processes: Introduction – comparison with traditional machining. Ultrasonic Machining: principle, Description of equipment, applications.	White Board Marker Smart board	
1	20/01/2024			
	22/01/ 2024	Electric Discharge Machining: Principle, Description of equipment, Dielectric fluid, tools (electrodes), Process parameters, Output characteristics, applications.	White Board	
2	TO 27/01/2024	Wire cut EDM: Principle, Description of equipment, controlling parameters; applications.	Marker Smart board	
	29/02/ 2024 TO	Abrasive Jet Machining: principle, description of equipment, Material removal rate, application.  Laser Beam Machining: principle, description of equipment, Material removal rate, application.	White Board Marker	
3	03/02/2024	,	Smart board	
	05/02/ 2024	Electro Chemical Machining: principle, description of equipment, Material removal rate, application.	White Board	
1	TO 10/02/2024	Plasma Arc Machining – principle, description of equipment, Material removal rate, Process parameters, performance characteriz	Marker Smart aអូចគ្នាស្នាpplication	

Signature of faculty

Week	Date Period	Theory/ Practical Topics/Lesson	Teach
5	12/02/2024 TO 17/02/2024	Electron Beam Machining - principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.	White Boar Marker Smart board
6	19/02/2024 TO 24/02/2024	Processing of plastics.  Moulding processes: Injection moulding, Compression moulding,	White Board Marker Smart board
7	TO 02/03/2024	Transfer moulding. Extruding; Casting; Calendering. Fabrication methods-Sheet forming, Blow moulding,	Marker White Board
8	04/03/2024 TO 09/03/2024	Laminating plastics (sheets, rods & tubes), Reinforcing. Applications of Plastics.  Introduction, Need for Additive Manufacturing	White Board Marker Smart board
9	11/03/2024 TO 16/03/2024	Fundamentals of Additive Manufacturing, AM Process Chain Advantages and Limitations of AM, Commonly used Terms	White Board Marker Smart board
10	18/03/2024 TO 23/03/2024	Classification of AM process, Fundamental Automated Processes, Distinction between AM and CNC, other related technologies. Application –Application in Design, Aerospace Industry, Automotive Industry, Jewelry Industry, Arts and Architecture.	Marker White Board Smart board
11	27/03/2024 TO 30/03/2024	RP Medical and Bioengineering Applications. Web Based Rapid Prototyping Systems. Concept of Flexible manufacturing process, concurrent engineering, production tools like capstan	White Board Marker Smart board
12	02/04/2024 TO 06/04/2024	Turret lathes, rapid prototyping processes.  Concept, General elements of SPM,	Marker White Board Smart board
13.	08/04/2024 TO 13/04/2024	Productivity improvement by SPM, Principles of SPM design.	White Board Marker Smart board

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E -	15/04/2024		White Board
	TO		Marker
14	TO	Types of maintanana Paris I I I I I	Smart board
	20/04/2024	Types of maintenance, Repair cycle analysis, Repair complexity, Maintenance manual,	
	22/ 04/2024		White Board
			Marker
15	TO 26/04/2024	Maintenance records, Housekeeping. Introduction to Total Productive Maintenance (TPM).	Smart board

Signature of HOD

Signature of faculty