

## Lesson Plan

Subject: **AMP** (Th -4(b))

Name of faculty: **Er.SANGRAM BISWAL**

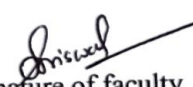
Semester: **6<sup>TH</sup>** Class allotted: **4p/week**

Branch: **Mechanical**


Session: **2025(S)**

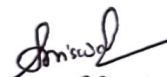
Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical –Topics/Lesson		
Week	Date/Period			
<b>1</b>	04/02/2025 TO 08/02/2025	<b>1. Modern Machining Processes</b> Introduction – comparison with traditional machining. Ultrasonic Machining: principle, Description of equipment, applications.		White Board Marker Smart board
<b>2</b>	10/02/2025 TO 15/02/2025	Electric Discharge Machining: Principle, Description of equipment, Dielectric fluid, tools (electrodes), Process parameters, Output characteristics, applications. Wire cut EDM: Principle, Description of equipment, controlling parameters; applications.		White Board Marker Smart board
<b>3</b>	17/02/2025 TO 22/02/2025	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 Smart board
<b>4</b>	24/02/2025 TO 01/03/2025	Electro Chemical Machining: principle, description of equipment, Material removal rate, application. Plasma Arc Machining – principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.		White Board Marker Smart board
<b>5</b>	03/03/2025 TO 08/03/2025	Electron Beam Machining - principle, description of equipment, Material removal rate, Process parameters, performance characterization, Applications.		White Board Marker Smart board
<b>6</b>	10/03/2025 TO 15/03/2025	<b>2. Plastic Processing</b> Processing of plastics. Moulding processes: Injection moulding, Compression moulding,		White Board Marker Smart board
<b>7</b>	17/03/2025 TO 22/03/2025	Transfer moulding. Extruding; Casting; Calendering. Fabrication methods-Sheet forming, Blow moulding,		White Board Marker Smart board

  
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8	24/03/2025 TO 29/03/2025	Laminating plastics (sheets, rods & tubes), Reinforcing. Applications of Plastics. <b>3.Additive Manufacturing Process</b> Introduction, Need for Additive Manufacturing	White Board Marker Smart board
9	31/03/2025 TO 05/04/2025	Fundamentals of Additive Manufacturing, AM Process Chain Advantages and Limitations of AM, Commonly used Terms <b>INTERNAL ASSESMENT TEST</b>	White Board Marker Smart board
10	07/04/2025 TO 12/04/2025	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.	White Board Marker Smart board
11	14/04/2025 TO 19/04/2025	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	21/04/2025 TO 26/04/2025	Turret lathes, rapid prototyping processes. <b>4-Special Purpose Machines</b> Concept, General elements of SPM,	Marker White Board Smart board
13	28/04/2025 TO 03/05/2025	Productivity improvement by SPM, Principles of SPM design.	White Board Marker Smart board
14	05/05/2025 TO 10/05/2025	Types of maintenance, Repair cycle analysis, Repair complexity, Maintenance manual,	White Board Marker Smart board
15	12/05/2025 TO 17/05/2025	Maintenance records, Housekeeping. Introduction to Total Productive Maintenance (TPM).	White Board Marker Smart board

  
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