

**INTEGRAL UNIVERSITY, LUCKNOW**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**COURSE: Production Technology**

**COURSE CODE: ME701**

**COURSE OBJECTIVES:**

1. To impart the knowledge about Introduction to casting processes
2. Know about Principles of Gating Design:.
3. To understand the concept of Casting Design considerations and Metal joining Processes
4. To understand the various types of Welding Parameters and their effects
5. To know about Advanced welding processes

**COURSE OUTCOMES (CO):**

**After completion of the course, a student will be able to**

<b>COURSE OUTCOME (CO)</b>	<b>DESCRIPTION</b>
<b>CO1</b>	Understand the Introduction to casting processes Patterns: Design (Allowances) and design considerations and Comparative evaluation of various casting processes
<b>CO2</b>	Understand the Principles of Gating Design
<b>CO3</b>	Know about Casting Design considerations and Metal joining Processes
<b>CO4</b>	Know about Welding Parameters and their effects
<b>CO5</b>	Know about Advanced welding processes

**CO-PO MAPPING: (Sub : Production Technology , Sub Code : ME701)**

<b>COURSE OUTCOME (CO)</b>		<b>PO1 Development of Knowledge</b>											
		<b>PO2 Practical Analysis</b>	<b>PO3 Problem Solving</b>	<b>PO4 Research Skill and Knowledge</b>	<b>PO5 Application of Modern Knowledge and Skill</b>	<b>PO6 Knowledge and Project Management</b>	<b>PO8 Communication Skill</b>	<b>PO9 Continuous Learning</b>	<b>PO10 Ethics and Responsibilities</b>	<b>PO11 Advanced Learning</b>	<b>PO12 Research Documentation</b>		
<b>C01</b>	Understand the Introduction to casting processes Patterns: Design (Allowances) and design considerations and Comparative evaluation of various casting processes	2	3	2	1	1		1		1			2
<b>C02</b>	Understand the Principles of Gating Design	3	3	2	2	1		2					2
<b>C03</b>	Know about Casting Design considerations and Metal joining Processes	3	2	1	1	2	1	3		1		1	2
<b>C04</b>	Know about Welding Parameters and their effects	2	2	2	2	3							2
<b>C05</b>	Know about Advanced welding processes	3	1	1	2	1	2						2
3: Strong contribution, 2: average contribution, 1: Low contribution													