



**Integral University, Lucknow**  
**Department of Mechanical Engineering**  
**Study and Evaluation Scheme (2021-22)**

**Program: M . Tech. (P&I)**

**Semester III**

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Ma x. Marks	Credit	Total Credits	Attributes						United Nations Sustainable Development Goals (SDGs)
				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	
<b>THEORIES</b>																				
1	ME601	Advanced Manufacturing Process	CORE	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√				4,8,9,12
2		<b>Elective-1</b>	<b>Elective</b>	3	1	0	40	20	60	40	100	3:1:0	4							
	ME602	Flexible Manufacturing System	Elective											√	√	√				8,9,12
	ME603	Advanced Welding Technology	Elective											√	√	√		√		8,9,13
	ME604	Advanced Metal Casting Technology	Elective											√	√	√		√		8,9,12
3		<b>Elective-2</b>	<b>Elective</b>	3	1	0	40	20	60	40	100	3:1:0	4							
	ME605	Friction and Wear	Elective											√	√					4,9,12
	ME606	Design for Manufacture	Elective											√	√	√				4,9
	ME607	Optimization Technique in Engineering	Elective											√	√	√				4,9
4		<b>Elective-3</b>	<b>Elective</b>	3	1	0	40	20	60	40	100	3:1:0	4							
	ME608	Maintenance Management	Elective											√	√	√				4,8,9
	ME609	Product Design and Development	Elective											√	√	√				4,9
	ME610	Industrial Automation and Robotics	Elective											√	√	√				4,8,9,13
<b>PRACTICAL</b>																				
5	ME690	Pre-Dissertation	CORE	0	0	0	-	100	100	-	100	0:0:4	4	√	√	√				
<b>Total</b>				<b>12</b>	<b>4</b>	<b>0</b>	<b>60</b>	<b>180</b>	<b>240</b>	<b>160</b>	<b>500</b>		<b>20</b>							



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**Semester IV**

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Max. Marks	Credit	Total Credits	Attributes						United Nations Sustainable Development Goals (SDGs)
				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	
<b>THEORIES</b>																				
<b>PRACTICAL</b>																				
1	ME699	Thesis/Dissertation	CORE	0	0	0	0	60	60	40	100	4	4	√	√	√				
2	ME699	Thesis/Dissertation	CORE	0	0	0	0	60	60	40	100	4	4	√	√	√				
3	ME699	Thesis/Dissertation	CORE	0	0	0	0	60	60	40	100	4	4	√	√	√				
4	ME699	Thesis/Dissertation	CORE	0	0	0	0	60	60	40	100	4	4	√	√	√				
<b>Total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240</b>	<b>240</b>	<b>160</b>	<b>400</b>	<b>16</b>	<b>16</b>							