



**Integral University, Lucknow**  
**Department of Mechanical Engineering**  
**Study and Evaluation Scheme**  
**(W.e.f. session 2018-19)**

**Program: B . Tech.**

**Semester VII**

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	Professional Ethics		
<b>THEORIES</b>																						
1	ME401	Industrial Engineering	Core	03	1	0	25	15	40	60	100	3:1:0	4	√	√	√					4,8,9	
2	ME402	CAD & CAM	Core	03	1	0	25	15	40	60	100	3:1:0	4	√	√	√					4,8,9	
3		Departmental Elective-5	Elective	03	1	0	25	15	40	60	100	3:1:0	4	√	√	√		√			7,9,13	
4		Departmental Elective-6	Elective	03	1	0	25	15	40	60	100	3:1:0	4	√	√	√					4, 7,9	
5		Departmental Elective-7	Elective	03	1	0	25	15	40	60	100	3:1:0	4	√	√	√		√			4,7,9,13	
<b>PRACTICAL</b>																						
6	ME421	CAD/CAM Lab	Core	00	00	2	30	30	60	40	100	0:0:1	1	√	√	√					4,8,9	
7	ME422	I.C Engine & Automobile Engg. Lab	Core	00	00	2	30	30	60	40	100	0:0:1	1	√	√	√					4,9	
8	ME-300	Industrial Training *	Core	00	00			50	50		50	0:0:1	0	√	√	√					4,9,17	
9	ME-490	Minor Project				2	30	30	60	40	100		1	√		√		√				
<b>Total</b>				<b>15</b>	<b>05</b>	<b>06</b>	<b>215</b>	<b>215</b>	<b>430</b>	<b>420</b>	<b>850</b>	<b>23</b>	<b>23</b>									

**Departmental Elective –5 (7<sup>th</sup> Semester)**

1. ME403 Drilling Technology for Water, Oil and Mineral Exploration
2. ME404 Total Quality Management
3. ME405 Unconventional Manufacturing Process
4. ME406 Energy Conservation and Waste Heat Recovery

**Departmental Elective –6 (7<sup>th</sup> Semester)**

1. ME407 Automobile Engineering
2. ME408 Mechanical Systems Design
3. ME409 Energy Management
4. ME410 Mechanical Vibration

**Departmental Elective –7 (7<sup>th</sup> Semester)**

1. ME411 Heat Ventilation & Air Conditioning
2. ME412 Engineering Materials
3. ME413 Non-Destructive Testing
4. ME414 Fuel & Combustion
5. ME415 Computational Fluid Dynamics



**Integral University, Lucknow**  
**Department of Mechanical Engineering**  
**Study and Evaluation Scheme**  
**(W.e.f. session 2018-19)**

**Program: B . Tech.**

**Semester VIII**

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>																				
1		Open Elective-2	Open Elective	03	1	0	25	15	40	60	100	3:1:0	4	√	√	√				
<b>PRACTICAL</b>																				
2	ME-451	Seminar	Core	0	0	3	0	100	100	0	100	0:0:3	3	√	√	√		√	√	√
3	ME-499	B. Tech. Project	Core	0	0	0	0	60	60	40	100	0:0:4	4	√	√	√				
4	ME-499	B. Tech. Project	Core	0	0	0	0	60	60	40	100	0:0:4	4	√	√	√				
5	ME-499	B. Tech. Project	Core	0	0	0	0	60	60	40	100	0:0:4	4	√	√	√				
6	ME-452	Comprehensive Viva	Core	00	00	0	0	100	100	0	100	0:0:2	2	√		√				√
<b>Total</b>				<b>3</b>	<b>1</b>	<b>3</b>	<b>25</b>	<b>395</b>	<b>420</b>	<b>180</b>	<b>600</b>		<b>24</b>	<b>21</b>						