



Integral University, Lucknow
Department of Mechanical Engineering
Study and Evaluation Scheme
(W.e.f. session 2023-24)

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	
THEORIES																					
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	
PRACTICAL																					
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	√		√		√			
10	CG401	Career Development Course	Audit	2	0	0	0	0	0	50	50	0	0	√		√					
Total				15	05	06	215	215	430	420	850		23	23							

Departmental Elective –5 (7th 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 (7th Semester)

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

Departmental Elective –7 (7th 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



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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	
THEORIES																				
1		Open Elective-2	Open	03	1	0	40	20	60	40	100	3:1:0	4	√	√	√				
PRACTICAL																				
2	ME-451	Seminar	Core	0	0	3	0	100	100	0	100	0:0:2	2	√	√	√		√	√	√
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 Annual Assessment-III	Core	0	0	0	0	100	100	0	100	0:0:1	1	√		√				√
Total				3	1	3	40	400	440	160	600	19	19							