



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

Program: B . Tech.

Semester V

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	BM335	Industrial Economics & Principles of	Core	3	1	0	40	20	60	40	100	3:1:0	4	√	√					4,8
2	ME301	Machine Design	Core	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√		√		4,9,12
3	ME302	Dynamics of Machines	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√				4,9
4	ME303	Manufacturing Science - II	Core	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√		√		4,8,9,12
5	ME304	Heat & Mass Transfer	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√		√		4,9,13
6		Elective-2	Elective	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√				9
PRACTICAL																				
7	ME309	Machine Design Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1	√	√	√		√		4,9,12
8	ME310	Dynamics of Machines Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1	√		√				4,9
9	ME311	Manufacturing Science - II Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1	√	√	√				4,8,9,12
10	ME312	Heat & Mass Transfer Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1	√		√		√		4,9,13
11	CG301	Career Development Course	Audit	2	0	0	0	0	0	50	50	0	0	√		√				
Total				20	06	08	400	200	600	450	1050	28	28							

Departmental Elective: DE-2 (5th Semester)

1. ME305 Project Management
2. ME306 Maintenance Engineering and Management
3. EC338 Mechatronics
4. ME308 Engineering Product Design



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Semester VI

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				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
THEORIES																					
1	ME313	Internal Combustion Engines	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√				4,7,13	
2	ME314	Fluid Machinery	Core	3	1	0	40	20	60	40	100	3:1:0	4	√		√				4,7,9	
3	ME315	Refrigeration & Air Conditioning	Core	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√				4,7,13	
4		Elective-3	Elective	3	1	0	40	20	60	40	100	3:1:0	4	√	√			√		4,9,11,13	
5		Elective-4	Elective	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√				4,9	
6		Open Elective-1	Open Elective	3	1	0	40	20	60	40	100	3:1:0	4	√		√		√			
PRACTICAL																					
7	ME324	Fluid Machinery Lab	Core	0			40	20	60	40	100	0:0:1	1	√		√				4,7,9	
8	ME325	Refrigeration & Air Conditioning Lab	Core	0			40	20	60	40	100	0:0:1	1	√	√	√				4,7,13	
9	ME352	Comprehensive Annual Assessment-II	Core					100	100		100	0:0:1	1	√		√					
10	CG302	Career Development Course	Audit	2		0	0	0	0	50	50	0	0	√		√					
Total				20			320	260	580	370	950	27	27								

Departmental Elective: DE –3 (6th Semester)

1. ME316 Tribology
2. ME317 Six Sigma Methods, Approach and Applications
3. ME318 Power Plant Engineering
4. ME321 Industrial Ergonomics

Departmental Elective: DE –4 (6th Semester)

1. ME320 Advance Machine Design
2. ME322 Applied Elasticity
3. ME323 Advance Fluid Mechanics
4. ME319 Finite Element Method