



Integral University, Lucknow
Department of Mechanical Engineering
Study and Evaluation Scheme
(w.e.f. 2022-23)

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		Professional Ethics	
THEORIES																						
1	BM335	Industrial Economics & Principles of Management	Core	03	1	0	40	20	60	40	100	3:1:0	4	√	√						4,8	
2	ME301	Machine Design	Core	03	1	0	40	20	60	40	100	3:1:0	4	√	√	√		√			4,9,12	
3	ME302	Dynamics of Machines	Core	03	1	0	40	20	60	40	100	3:1:0	4	√		√					4,9	
4	ME303	Manufacturing Science - II	Core	03	1	0	40	20	60	40	100	3:1:0	4	√	√	√		√			4,8,9,12	
5	ME304	Heat & Mass Transfer	Core	03	1	0	40	20	60	40	100	3:1:0	4	√		√		√			4,9,13	
6		Elective-2	Elective	03	1	0	40	20	60	40	100	3:1:0	4	√	√	√					9	
PRACTICAL																						
7	ME309	Machine Design Lab	Core	00	00	2	40	20	60	40	100	0:0:1	1	√	√	√		√			4,9,12	
8	ME310	Dynamics of Machines Lab	Core	00	00	2	40	20	60	40	100	0:0:1	1	√		√					4,9	
9	ME311	Manufacturing Science - II Lab	Core	00	00	2	40	20	60	40	100	0:0:1	1	√	√	√					4,8,9,12	
10	ME312	Heat & Mass Transfer Lab	Core	00	01	2	40	20	60	40	100	0:0:1	1	√		√		√			4,9,13	
Total				18	06	08	400	200	600	400	1000	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	03	1	0	40	20	60	40	100	3:1:0	4	√		√				4,7,13	
2	ME314	Fluid Machinery	Core	03	1	0	40	20	60	40	100	3:1:0	4	√		√				4,7,9	
3	ME315	Refrigeration & Air Conditioning	Core	03	1	0	40	20	60	40	100	3:1:0	4	√	√	√				4,7,13	
4		Elective-3	Elective	03	1	0	40	20	60	40	100	3:1:0	4	√	√			√		4,9,11,13	
5		Elective-4	Elective	03	1	0	40	20	60	40	100	3:1:0	4	√	√	√				4,9	
6		Open Elective-1	Open Elective	03	1	0	40	20	60	40	100	3:1:0	4	√		√		√			
PRACTICAL																					
7	ME324	Fluid Machinery Lab	Core	00	00	2	40	20	60	40	100	0:0:1	1	√		√				4,7,9	
8	ME325	Refrigeration & Air Conditioning Lab	Core	00	00	2	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	√		√					
Total				18	06	06	320	260	580	320	900	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