

SCHEME OF EXAMINATION
B. TECH. (3rd SEMESTER) INDUSTRIAL ENGINEERING AND MANAGEMENT

S. No.	Course No	Subjects	Teaching Schedule (Hours)				Credits	Duration of Exams. (Hours)
			L	T	P/D	Total		
1	IEM-201	Thermodynamics	3	1	-	4	3.5	3
2.	IEM -203	Strength of Materials	3	1	-	4	3.5	3
3.	IEM -205	Machine Drawing	-	-	4	4	2.0	4
4.	IEM -207	Production Technology	3	1	-	4	3.5	3
5.	IEM-209	Material science	3	1	-	4	3.5	3
6.	IEM -211	Applied Mechanics	2	1	-	3	2.5	3
7.	MAT-201/202	Mathematics-III	3	1	-	4	3.5	3
8.	IEM -215	Strength of Materials (Practical)	-	-	2	2	1.0	3
9.	IEM -217	Production Technology (Practical)	-	-	2	2	1.0	3
10.	IEM -219	Thermodynamics (Practical)	-	-	2	2	1.0	3
11.	IEM -221	Applied Mechanics (Practical)	-	-	2	2	1.0	3
		Total	17	06	12	35	26	

SCHEME OF EXAMINATION

B. TECH. (4th SEMESTER) INDUSTRIAL ENGINEERING AND MANAGEMENT

S. No.	Course No	Subjects	Teaching Schedule (Hours)				Credits	Duration of Exams. (Hours)
			L	T	P/D	Total		
1	IEM-202	Theory of machines	3	1	-	4	3.5	3
2.	IEM-204	Fluid mechanics and machinery	3	1	-	4	3.5	3
3.	IEM-206	Numerical methods	3	1	-	4	3.5	3
4.	ECE-216	Digital electronics and microprocessor architecture	2	1	-	3	2.5	3
5.	IEM-208	Metrology	3	1	-	4	3.5	3
6.	IEM-210	Entrepreneurship and venture management	3	1	-	4	3.5	3
7.	HUT-211	Organizational Behaviour	2	1	-	3	2.5	3
8.	IEM-214	Theory of machines (Practical)	-	-	2	2	1.0	3
9.	IEM-216	Fluid mechanics and machinery (Practical)	-	-	2	2	1.0	3
10.	IEM-218	Numerical methods (Practical)	-	-	3	3	1.5	3
11.	IEM-220	Metrology (Practical)	-	-	2	2	1.0	3
		Total	19	07	09	35	27	-

SCHEME OF EXAMINATION

B. TECH. (5th SEMESTER) INDUSTRIAL ENGINEERING AND MANAGEMENT

S. No.	Course No	Subjects	Teaching Schedule (Hours)				Credits	Duration of Exams. (Hours)
			L	T	P/D	Total		
1	IEM-301	Machine design	2	-	5	7	4.5	4
2.	IEM -303	Operations Research	3	1	-	4	3.5	3
3.	IEM -305	Work study and ergonomics	3	1	-	4	3.5	3
4.	IEM -307	Layout planning and value engineering	3	1	-	4	3.5	3
5.	IEM -309	Production planning and control	3	1	-	4	3.5	3
6.	IEM -311	Heat Transfer	3	1	-	4	3.5	3
7.	IEM -313	Work study and ergonomics (Practical)	-	-	2	2	1.0	3
8.	IEM -315	Entrepreneurship (Practical)	-	-	2	2	1.0	3
9.	IEM -317	Basic industrial engineering (Practical)	-	-	2	2	1.0	3
10.	IEM -319	Heat transfer (Practical)	-	-	2	2	1.0	3
11.	IEM -323	Vocational Training	-	-	-	-	3.0	-
	Total		17	5	13	35	29.0	

SCHEME OF EXAMINATION
B. TECH. (6th SEMESTER) INDUSTRIAL ENGINEERING AND MANAGEMENT

S. No.	Course No	Subjects	Teaching Schedule (Hours)				Credits	Duration of Exams. (Hours)
			L	T	P/D	Total		
1	IEM-302	Operations management	3	1	-	4	3.5	3
2.	IEM-304	Materials management	3	1	-	4	3.5	3
3.	IEM-306	Industrial quality control	3	1	-	4	3.5	3
4.	IEM-	Elective I*	3	1	-	4	3.5	3
5.	IEM-308	Mechatronics	3	1	-	4	3.5	3
6.	IEM-310	Non-conventional manufacturing processes	3	1	-	4	3.5	3
7.	HUT-311	Business Management	3	1	-	4	3.5	
8.	IEM-312	Advanced Production Technology (Practical)	-	-	2	2	1.0	3
8.	IEM-314	Mechatronics (Practical)	-	-	3	3	1.5	3
9.	IEM-316	Seminar-I	-	-	2	2	1.0	3
	Total		21	7	07	35	27.0	

* The Electives will be offered from the list of Electives.

SCHEME OF EXAMINATION
B. TECH. (7th SEMESTER) INDUSTRIAL ENGINEERING AND MANAGEMENT

S. No.	Course No	Subjects	Teaching Schedule (Hours)				Credits	Duration of Exams. (Hours)
			L	T	P/D	Total		
1	IEM-401	Network and project management.	3	1	-	4	3.5	3
2.	IEM-403	CAD/CAM	3	1	-	4	3.5	3
3.	IEM-405	Product Design & Development	3	1	-	4	3.5	3
4.	IEM-	Elective II *	3	1	-	4	3.5	3
5.		Open Elective I**	3	1	-	4	3.5	3
6.	IEM-407	CAD/CAM (Practical)	-	-	3	3	1.5	3
7.	IEM-409	PRIDE Lab	-	-	3	3	1.5	3
8.	IEM-411	Minor	-	-	4	4	6.0	3
9.	IEM-413	Practical Training Report	-	-	-	-	3.5	3
	Total		15	5	10	30	30.0	

* The Elective II will be offered from the list of Electives

**The Open Elective I will be offered from the list of Open Electives.

SCHEME OF EXAMINATION
B. TECH. (8th SEMESTER) INDUSTRIAL ENGINEERING AND MANAGEMENT

S. No.	Course No	Subjects	Teaching Schedule (Hours)				Credits	Duration of Exams. (Hours)
			L	T	P/D	Total		
1	IEM-402	Industrial inspection and non-destructive testing	3	1	-	4	3.5	3
2.	IEM -404	Maintenance and reliability engineering	3	1	-	4	3.5	3
3.	IEM -406	Experimental Design Techniques	3	1	-	4	3.5	3
4.	IEM -	Elective III*	3	1	-	4	3.5	3
5.		Open Elective II **	4	-	-	4	3.5	3
6.	IEM -408	NDT Lab	-	-	2	2	1.0	3
7.	IEM -410	Optimization Lab	-	-	2	2	1.0	3
8.	IEM -412	Major Project	-	-	4	4	6.0	3
9.	IEM -414	Seminar-II	-	-	2	2	1.0	3
10	IEM -416	Comprehensive Viva-Voce	-	-	-	-	3.0	3
11	IEM-418	General Fitness and Professional Aptitude (Viva-Voce)	-	-	-	-	3.5	3
	Total		15	5	10	30	33.0	

* The Elective III will be offered from the list of Electives.

**The Open Electives II will be offered from the list of Open Electives.

List of Electives

1. IEM-001 Supply Chain Management & Logistics
2. IEM-002 Management Information Systems
3. IEM-003 Industrial Instrumentation
4. IEM-004 Enterprise Resource Planning
5. IEM-005 Computer Integrated Manufacturing
6. IEM-006 Modeling & Simulation
7. IEM-007 Marketing & Financial Management
8. IEM-008 Productivity Engineering & Management
9. IEM-009 Energy Management
10. IEM-010 Strategic Entrepreneurship
11. IEM-011 Total Quality Management