	1			
1 ^{st Semester}	Course code	Course Title	Lec Hrs.	Credit Hours
	XXXXX	Course-I	3	3
	XXXXX	Course-II	3	3
		Total Credit Hours	6	6
2 nd Semester	Course Code	Course Title	Lec Hrs.	Credit Hours
	XXXXX	Course-III	3	3
	XXXXX	Course-IV	3	3
		Total Credit Hours	6	6
3 rd Semester	Course Code	Course Title	Lec Hrs	Credit Hours
	XXXXX	Course-V	3	3
	XXXXX	Course-VI	3	3
	Total Credit Hours		6	6
4 th Semester	Course Code	Course Title	Lec Hrs.	Credit Hours
	XXXXX	Thesis	6	6
		Total Credit Hours	6	6
	Te	otal Credit Hours of Degree	24	30

Scheme of Studies for MSME program

Disciplines

- I. Design Engineering
- **II.** Dynamics and Control
- III. Mechanical Power Engineering
- **IV.** Manufacturing Engineering
- V. Engineering Management

Course Code Methodology: ME = Mechanical Engineering

First Numeric = Level of knowledge

Second Numeric = 0 for Common Subject

- 1 for Design Engineering
- 2 for Dynamics and Control
- 3 for Mechanical Power Engineering
- 4 for Manufacturing Engineering
- 5 for Engineering Management

Third Numeric = Related discipline serial number

List of Courses

Sr. #	Course Code	Course Title	
1	ME501	Research Methodology	
2	ME502	Statistical Analysis	
3	ME503	Advanced Nemerical Analysis	
4	ME511	Advanced Engineering Materials	
5	ME512	Finite Element Analysis	
6	ME513	Mechanics Of Composite Materials	
7	ME611	Theory Of Elasticity	
8	ME612	Experimental Stress Analysis	
9	ME613	Engineering Design Optimization	
10	ME711	Fracture Mechanics	
11	ME712	Fatigue Analysis	
12	ME713	Tribology	
13	ME811	Advanced Stress Analysis	
14	ME812	Continuum Mechanics	
15	ME813	Special Topics In Design Engineering	
16	ME521	Behavior of Materials under Impact Loading	
17	ME621	Mechanism Design	
18	ME622	Condition Monitoring of Rotating Machinery	
19	ME721	Advanced Mechanical Vibrations	
20	ME722	Robotics	
21	ME723	Advanced Dynamics	
22	ME821	Engineering Acoustics	
23	ME822	Modal Analysis	
24	ME823	Advanced Automatic Control Systems	
25	ME824	Special Topics In Dynamics And Control	
26	ME531	Computational Fluid Dynamics	
27	ME532	Propulsion Engineering	
28	ME533	Nuclear Engineering	
29	ME631	Solar Energy Utilization	
30	ME632	Combustion Engineering	
31	ME731	Experimental Methods In Fluid	
32	ME732	Energy Management	
33	ME831	Advanced Thermodynamics	
34	ME832	Advanced Fluid Mechanics	
35	ME833	Advanced Heat Transfer	
36	ME834	Special Topics In Mechanical Power Engineering	
37	ME541	Advanced Metal Forming	
38	ME542	Lean And Agile Manufacturing	

39	ME641	Manufacturing planning and control
40	ME642	Work design and measurement
41	ME741	Advanced statistics and data mining
42	ME742	Product Design And Development
43	ME743	Engineering optimization techniques
44	ME744	Research methodology and design of experiments
45	ME745	Design of advanced manufacturing systems
46	ME841	Advanced Cad/Cam
47	ME842	Computer Integrated Manufacturing
48	ME843	Simulation modeling of manufacturing systems
49	ME844	Statistical quality control and assurance
50	ME845	Computer aided process planning
51	ME551	Human Resources Management and Organizational Behavior
52	ME651	Industrial Cost Management
53	ME652	Facility Planning and Layout
54	ME653	Project Management
55	ME751	Total Quality Management
56	ME752	Leadership And Entrepreneurship
57	ME753	Operations Management
59	ME851	Supply Chain Management
60	ME852	Cognitive Ergonomics
61	ME853	Human Factor Engineering
62	ME854	Product Life Cycle Management
62	ME855	Operations Research
63	ME856	Special Topics In Engineering Management