

**MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY
BHOPAL – 462003
REVISED SCHEME FOR BATCH ADMITTED IN 2019**

Department of Mechanical Engineering

B. Tech. (Mechanical Engineering)

SEVENTH SEMESTER

Course Code	Course Name	Scheme of Studies Periods per week			Credits
		L	T	P	
ME 411	Refrigeration and Air Conditioning	3	-	-	3
HUM 411	Industrial Management	3	-	-	3
	Department Elective-5(A)	3	-	-	3
	Department Elective-6(A)	3	-	-	3
	Open Elective 3	3	-	-	3
	Open Elective 4	3	-	-	3
ME 412	Refrigeration and Air Conditioning Lab	-	-	2	1
ME 413	Major Project Phase 1	-	3	2	4
ME 414	Educational Tour & Training	-	-	2	1
Total Hours =27		18	3	6	24

EIGHTH SEMESTER

Course Code	Course Name	Scheme of Studies Periods per week			Credits
		L	T	P	
	Department Elective-7(A)	3	-	-	3
	Department Elective-8(A)	3	-	-	3
	Department Elective-9(A)	3	-	-	3
ME 421 / ME 422	Major Project Phase 2 / Internship	-	-	12	6
ME 423	General Proficiency	-	-	-	1
Total Hours =21		9	-	12	16

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Revised on dated 21-12-2022,

Incorporated the changes as per approval.

LIST OF ELECTIVES

List of Department Electives - Group A	
1.	ME 431 Energy Conversion System
2.	ME 432 Concurrent Engineering
3.	ME 433 Flexible Manufacturing System
4.	ME 434 Computer Aided Design
5.	ME 435 Micro Manufacturing
6.	ME 436 Facility Management and Layout Planning
7.	ME 437 Tool Engineering
8.	ME 438 Robotics
9.	ME 439 Computational Methods
10.	ME 440 Advanced Machine Design
11.	ME 441 Advanced Materials
12.	ME 442 Wind Energy Technology
13.	ME 443 Nano Manufacturing
14.	ME 444 Entrepreneurship and New Venture Creation
15.	ME 446 Total Quality Management
16.	ME 448 CAD/CAM
List of Open Electives - Group C	
1.	ME 451 Solar Energy-
2.	ME 453 Composite Materials
3.	ME 454 Material Management
4.	ME 455 Maintenance Engineering and Management
5.	ME 456 Computational Fluid Dynamics
6.	ME 457 Technology Entrepreneurship
7.	ME 458 Finite Element Methods
8.	ME 459 Experimental Stress Analysis
9.	ME 461 Advance Production Engineering