

**Course Structure & Syllabus**  
**III Year BE (Mechanical Engineering)**



ESTD : 1946

**Department of Mechanical Engineering**  
**National Institute of Engineering**

**Academic Year 2021 - 22**

**Scheme of teaching, examination and Syllabus of V & VI Semester B.E. degree  
(for batch admitted in the year 2019-20)**

**V SEMESTER**

Sl. No.	Course Code	Course	Hrs/Week			Credits
			L	T	P	
1	ME5C01	Design of Machine Elements-I	3	2	0	4
2	ME5C02	Dynamics of Machinery	3	0	0	3
3	ME5C03	Mechatronics	3	2	0	4
4	ME5C04	Turbo Machines	3	2	0	4
5	ME5C05	Engineering Management and Entrepreneurship	3	0	0	3
6	ME5MXX	MOOC Elective	3	0	0	3
7	ME5L01	CAD/CAM Laboratory	0	0	3	1.5
8	ME5L02	Fluid Mechanics and Fluid Machines Laboratory	0	0	3	1.5
<b>Total</b>			<b>30</b>			<b>24</b>
<b>Lateral Entry Students:</b>						
9	MA5CL1	Applied Mathematics-II*	3	0	0	3

## VI SEMESTER

Sl. No.	Course Code	Course	Hrs/Week			Credits
			L	T	P	
1	ME6C01	Design of Machine Elements-II	3	2	0	4
2	ME6C02	Mechanical Vibrations	3	0	0	3
3	ME6C03	Finite Element Method	3	0	0	3
4	ME6C04	Heat Transfer	3	0	0	3
5	ME6C05	Engineering Economics	3	0	0	3
6	ME6C06	Minor Project Work	0	0	4	1
7	ME6E1XX	Elective-I	3	0	0	3
8	ME6L01	Computer Aided Analysis Laboratory	0	0	3	1.5
9	ME6L02	Dynamics Laboratory	0	0	3	1.5
<b>Total</b>			<b>30</b>			<b>23</b>

### Elective I- 3 Credits

Sl. No.	Course code	Course
1	ME6E101	Theory of Elasticity
2	ME6E102	Composite Materials
3	ME6E103	Power Plant Engineering
4	ME6E104	Computer Integrated Manufacturing
5	ME6E105	Computational Fluid Dynamics
6	ME6E106	Tool Design
7	ME6E107	Introduction to Nano-Sciences & Technology
8	ME6E108	Basic Course on Entrepreneurship
9	ME6E109	Microgrids with RE Integration
10	ME6E110	Coordinate Metrology
11	ME6E111	Maintenance Engineering
12	ME6E112	Organizational Behavior
13	ME6E113	German Language Skills
14	ME6E114	Project Management
15	ME6E115	Financial Management
16	ME6E116	Marketing Management
17	ME6E117	Automobile Body Design
18	ME6E118	Non Traditional Machining