

**INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY**  
**MECHANICAL ENGINEERING DEPARTMENT**

**Programme** : MTech  
**Specialization** : Design Engineering  
**Department** : Mechanical Engineering

**Semester-I**

| Course Number | Course Title                     | L     | T | P | C  | Course Tag* |   |
|---------------|----------------------------------|-------|---|---|----|-------------|---|
| ME 899        | Communication Skills             | PP/NP |   |   |    |             | C |
| ME 601        | Stress Analysis                  | 3     | 0 | 0 | 6  | C           |   |
| ME 6119       | Vibration and Control            | 3     | 0 | 0 | 6  | C           |   |
| ME 782        | Design Optimization              | 3     | 0 | 0 | 6  | C           |   |
|               | Elective I                       | 3     | 0 | 0 | 6  | D           |   |
|               | Elective II / Institute Elective | 3     | 0 | 0 | 6  | D/I##       |   |
|               | Total Credits:                   |       |   |   | 30 |             |   |

\*C: Core; DIC: Department introductory; D: Department elective; I: Institute elective

## If the student opts for "I" in 1<sup>st</sup> semester then he/she has to opt for "D" in 2<sup>nd</sup> semester and vice-versa.

**Semester-II**

| Course Number | Course Title                     | L | T | P | C  | Course Tag* |
|---------------|----------------------------------|---|---|---|----|-------------|
| ME 721        | Design Engineering Laboratory    | 0 | 0 | 4 | 4  | C           |
| ME 694        | Seminar                          | 0 | 0 | 0 | 4  | C           |
|               | Elective III or R&D Project      | 3 | 0 | 0 | 6  | D           |
|               |                                  | 0 | 0 | 0 | 6  |             |
|               | Elective IV / Institute Elective | 3 | 0 | 0 | 6  | I/D##       |
|               | Elective V                       | 3 | 0 | 0 | 6  | D           |
|               | Elective VI                      | 3 | 0 | 0 | 6  | D           |
|               | Elective VII                     | 3 | 0 | 0 | 6  | D           |
|               | Total Credits:                   |   |   |   | 38 |             |

\*C: Core; DIC: Department introductory; D: Department elective; I: Institute elective

**Semester-III**

| Course Number | Course Title              | L | T | P | C  | Course Tag* |
|---------------|---------------------------|---|---|---|----|-------------|
| ME 797        | M.Tech. Project – Stage I | 0 | 0 | 0 | 50 | C           |
|               | Total Credits:            |   |   |   | 50 |             |

**Semester-IV**

| Course Number | Course Title               | L | T | P | C  | Course Tag* |
|---------------|----------------------------|---|---|---|----|-------------|
| ME 798        | M.Tech. Project – Stage II | 0 | 0 | 0 | 40 | C           |
|               | Total Credits:             |   |   |   | 40 |             |