

# Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat

## Department Mechanical Engineering

### B.Tech. I Mechanical Engineering

| Sr. No.  | Subject   | Code           | Scheme L-T-P | Credits (Min.) | Notional hours of Learning (Approx.) |
|--|---|----------------|--------------|----------------|--------------------------------------|
| <b>First Semester (1<sup>st</sup> year of UG)</b>  |   |                |              |                |                                      |
| 1  | Elements of Thermal and Fluid Systems   | ME101          | 3-0-2        | 4              | 85                                   |
| 2  | Engineering Mechanics   | ME103          | 3-1-0        | 4              | 70                                   |
| 3  | Energy and Environmental Engineering  | EG110          | 3-0-2        | 4              | 85                                   |
| 4  | Fundamentals of Computer and Programming                                      | CS110          | 3-0-2        | 4              | 85                                   |
| 5  | Engineering Mathematics   | MA117          | 3-1-0        | 4              | 70                                   |
|  |   |                | <b>Total</b> | <b>20</b>      | <b>395</b>                           |
| 6  | Vocational Training / Professional Experience (Optional) (Mandatory for Exit) | MEv01<br>MEP01 | 0-0-10       | 5              | 200 (20 x 10)                        |
| <b>Second Semester (1<sup>st</sup> year of UG)</b> |   |                |              |                |                                      |
| 1  | Engineering Thermodynamics  | ME102          | 3-1-0        | 4              | 70                                   |
| 2  | Engineering Drawing   | ME110          | 2-0-4        | 4              | 100                                  |
| 3  | Elements of Materials and Manufacturing                                       | ME106          | 3-0-2        | 4              | 85                                   |
| 4  | Applied Electrical and Electronics Engineering                                | EE106          | 3-0-2        | 4              | 85                                   |
| 5  | English and Professional Communication  | HS110          | 3-1-0        | 4              | 77                                   |
| 6  | Workshop Practice   | ME105          | 0-0-4        | 2              | 70                                   |
|  |   |                | <b>Total</b> | <b>22</b>      | <b>487</b>                           |
| 7  | Vocational Training / Professional Experience (Optional) (Mandatory for Exit) | MEv02<br>MEP02 | 0-0-10       | 5              | 200 (20 x 10)                        |

Subject Code: ##nXX; ##: Department Identity, n: Year, XX: Subject Sequence number XX: last digit 0 (subject offered in both ODD and EVEN semesters, XX: 01 to 30 – last digit ODD and EVEN for ODD and EVEN semesters (Mandatory Core), XX: 31 to 50 (Optional Core), XX: 51 to 99 (Elective), Subjects list for Minor and Honor (M/H#1-4), Subjects list for Specialization track (#1-4) EG: Engineering Subject, SC: Science Subject (offered combinedly by departments) (SVNIT Surat)