

NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM

DEPARTMENT OF MECHANICAL ENGINEERING

Curriculum from 3rd Semester to 8th Semester (2014, 2015 & 2016 batch)

Semester 3

| Sl. No | Code | Subject | L | T | P | C | Category |
|--------------|--------|---|----|---|---|----|----------|
| 1 | MA2001 | Mathematics III | 3 | 1 | 0 | 3 | BS |
| 2 | EE2009 | Electrical Measurements and Machines | 3 | 0 | 0 | 3 | PT |
| 3 | ME2001 | Mechanics of Fluids | 3 | 0 | 0 | 3 | PT |
| 4 | ME2002 | Elements of Solid Mechanics | 3 | 0 | 0 | 3 | PT |
| 5 | ME2003 | Engineering Mechanics – Dynamics | 3 | 0 | 0 | 3 | PT |
| 6 | ME2101 | Materials Science and Metallurgy | 3 | 0 | 0 | 3 | PT |
| 7 | ME2091 | Machine Drawing | 0 | 0 | 3 | 2 | PT |
| 8 | EE2094 | Electrical Measurements and Machines Laboratory | 0 | 0 | 3 | 2 | PT |
| Total | | | 18 | 1 | 6 | 22 | |

Semester 4

| No | Code | Subject | L | T | P | C | Category |
|--------------|--------|--|----|---|---|-------|----------|
| 1 | MA2002 | Mathematics IV | 3 | 1 | 0 | 3 | BS |
| 2 | ME2011 | Fluid Machinery | 3 | 0 | 0 | 3 | PT |
| 3 | ME2012 | Applied Mechanics of Solids | 3 | 0 | 0 | 3 | PT |
| 4 | ME2013 | Mechanics of Machinery | 3 | 0 | 0 | 3 | PT |
| 5 | ME2014 | Thermodynamics | 3 | 0 | 0 | 3 | PT |
| 6 | ME3003 | Environmental Studies for Mechanical Engineers | 3 | 0 | 0 | 3* | OT |
| 7 | ME2092 | Fluid Mechanics & Fluid Machinery Laboratory | 0 | 0 | 3 | 2 | PT |
| 8 | CE2095 | Strength of Materials Laboratory | 0 | 0 | 3 | 2 | PT |
| Total | | | 18 | 1 | 6 | 19+3* | |

Semester 5

| No | Code | Subject | L | T | P | C | Category |
|--------------|--------|-------------------------------------|----|---|---|----|----------|
| 1 | ME3001 | Dynamics of Machinery | 3 | 0 | 0 | 3 | PT |
| 2 | ME3002 | Principles of Heat Transfer | 3 | 0 | 0 | 3 | PT |
| 3 | ME3101 | Management of Production Systems | 3 | 0 | 0 | 3 | PT |
| 4 | ME3102 | Manufacturing Science | 3 | 0 | 0 | 3 | PT |
| 5 | ME3011 | Gas Dynamics | 3 | 0 | 0 | 3 | PT |
| 6 | ME4101 | Operations Research | 3 | 0 | 0 | 3 | HL |
| 7 | ME3091 | Heat Transfer Laboratory | 0 | 0 | 3 | 2 | PT |
| 8 | ME3191 | Production Engineering Laboratory I | 0 | 0 | 3 | 2 | PT |
| Total | | | 18 | 0 | 6 | 22 | |

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Semester 6

| No | Code | Subject | L | T | P | C | Category |
|----|--------|--|----|---|---|----|----------|
| 1 | ME3111 | Machining Science and Machine Tools | 4 | 0 | 0 | 4 | PT |
| 2 | ME3112 | Metrology and Instrumentation | 3 | 0 | 0 | 3 | PT |
| 3 | | Elective I | 3 | 0 | 0 | 3 | PT |
| 4 | ME3012 | Thermal Engineering I | 3 | 0 | 0 | 3 | PT |
| 5 | ME4001 | Machine Design I | 3 | 0 | 0 | 3 | PT |
| 6 | ME3192 | Metrology and Instrumentation Laboratory | 0 | 0 | 3 | 2 | PT |
| 7 | ME3193 | Production Engineering Laboratory II | 0 | 0 | 3 | 2 | PT |
| | | Total | 16 | 0 | 6 | 20 | |

Semester 7

| No | Code | Subject | L | T | P | C | Category |
|----|--------|------------------------|----|---|---|----|----------|
| 1 | ME4002 | Thermal Engineering II | 3 | 0 | 0 | 3 | PT |
| 2 | | Elective II | 3 | 0 | 0 | 3 | PT |
| 3 | ME4011 | Machine Design II | 3 | 0 | 0 | 3 | PT |
| 4 | MS4004 | Industrial Economics | 3 | 0 | 0 | 3 | PT |
| 5 | ME4098 | Project | 0 | 0 | 3 | 3 | PT |
| 6 | ME4091 | Heat Engine Laboratory | 0 | 0 | 3 | 2 | PT |
| 7 | ME4191 | CAD/CAM Laboratory | 0 | 0 | 3 | 2 | PT |
| | | Total | 12 | 0 | 9 | 19 | |

Semester 8

| No | Code | Subject | L | T | P | C | Category |
|----|--------|--------------------------|----|---|---|----|----------|
| 1 | ME2111 | Essentials of Management | 3 | 0 | 0 | 3 | PT |
| 2 | | Elective III | 3 | 0 | 0 | 3 | PT |
| 3 | | Elective IV | 3 | 0 | 0 | 3 | PT |
| 4 | | Elective V | 3 | 0 | 0 | 3 | PT |
| 5 | ME4099 | Project | 0 | 0 | 5 | 5 | PT |
| 6 | ME4097 | Seminar | 0 | 0 | 3 | 1 | PT |
| | | Total | 12 | 0 | 8 | 18 | |