**M TECH SAFETY AND OCCUPATIONAL HEALTH ENGINEERING**

A. First Semester

a) Departmental Core Papers for the specialization (Paper – I, II, III)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Class Load/Week | | | Total load (h) | Credit | Marks |
| L | T | P |  |  |  |
| 1 | HC1111 | Statistics and Accident Analysis | 3 | 0 | 0 | 3 | 3 | 100 |
| 2 | HC1112 | Safety Procedures and Management | 3 | 0 | 0 | 3 | 3 | 100 |
| 3 | HC1113 | Hazard Identification and Risk Analysis | 3 | 0 | 0 | 3 | 3 | 100 |

b) Departmental Elective Papers for the specialization (Paper – IV, V)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Class Load/Week | | | Total load (h) | Credit | Marks |
| L | T | P |  |  |  |
| **1** | HC1114 | Safety in Operations- I (DE) | 3 | 0 | 0 | 3 | 3 | 100 |
| 2 | HC1115 | Occupational Physiology and Biomechanics (DE) | 3 | 0 | 0 | 3 | 3 | 100 |
| 3 | HC1109 | Finite Element Analysis (DE) | 3 | 0 | 0 | 3 | 3 | 100 |

\*\* Opted in 2019-20 session.

c) Open Elective Papers

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Class Load/Week | | | Total load (h) | Credit | Marks |
| L | T | P |  |  |  |
| 1 | HC1103 | Safety in Operations- Mechanical and Materials Handling (OE) | 3 | 0 | 0 | 3 | 3 | 100 |

d) Departmental Mini Projects for the specialization

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Related Paper  Code and Name | Total load (h) | Credit | Marks |
| 1 | HC1161 | Statistics and Accident Analysis |  | 2 | 100 |
| 2 | HC1162 | Safety Procedures and Management |  | 2 | 100 |
| 3 | HC1163 | Hazard Identification and Risk Analysis |  | 2 | 100 |

B. Second Semester

a) Departmental Core Papers for the specialization (Paper – VI, VII, VIII)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Class Load/Week | | | Total load (h) | Credit | Marks |
| L | T | P |  |  |  |
| 1 | HC1211 | Industrial Hygiene and Occupational Health | 3 | 0 | 0 | 3 | 3 | 100 |
| 2 | HC1212 | Safety in Operations-II | 3 | 0 | 0 | 3 | 3 | 100 |
| 3 | HC1213 | Safety Rules and Regulations | 3 | 0 | 0 | 3 | 3 | 100 |

b) Departmental Elective Papers for the specialization

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Class Load/Week | | | Total load (h) | Credit | Marks |
| L | T | P |  |  |  |
| 4 | HC1214 | Industrial Noise and Vibration Control (DE) | 3 | 0 | 0 | 3 | 3 | 100 |
| 5 | HC1215 | Reliability Engineering (DE) | 3 | 0 | 0 | 3 | 3 | 100 |
| 6 | HC 1216 | Behavioural Safety (DE) | 3 | 0 | 0 | 3 | 3 | 100 |

c) M. Tech Project Part - I

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Total load (h) | Credit | Marks |
| 1 | HC1251 | M. Tech thesis Part - I (Term Paper) | 8 | 4 | 200 |
| 2 | HC1252 | Term Paper Seminar & Viva-voce |  | 2 | 100 |

Third Semester

M. Tech Project Part - II

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Total load (h) | Credit | Marks |
| 1 | HC2101 | M. Tech Thesis Part - II (Progress Report) | 24 | 12 | 300 |
| 2 |  | Progress Report Seminar & Viva-voce |  | 6 | 100 |

Fourth Semester

M. Tech Project Part – III

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Subject code | Subject Name | Total load (h) | Credit | Marks |
| 1 | HC2201 | M. Tech Final thesis | 30 | 22 | 400 |
| 2 |  | Thesis Seminar& Viva-voce |  | 8 | 200 |