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**GYAN VIHAR SCHOOL OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Teaching and Examination Scheme for M. Tech. FULL-TIME (Core) (Manufacturing and Industrial Engineering)**

**EFFECTIVE FROM ACADEMIC SESSION 2014-15**

**To be implemented in session 2014­15**

**Year I Semester – I**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Name** | **Credits** | **Contact Hrs/Wk.** | **Exam Hrs.** | **Weightage (in%)** |
| **L** | **T/S** | **P** | **CE** | **ESE**  |
|  |  | **UNIVERSITY CORE** |  |  |  |  |  |  |  |
|  |  | Research Methodology |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **PROGRAME CORE** | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 1 | ME 511 | Advanced Manufacturing Process |  |  |  |  |  |  |  |
| 2 | ME 515 | Quality Engineering And Management | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 3 | ME 517 | Reliability And Failure Analysis | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 4 | ME 519 | CAD/CAM/CIM | 3 | 3 | 0 |   | 3 | 30 | 70 |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **PROGRAME ELECTIVE** |  |  |  |  |  |  |  |
|  | ME 513 | Metal Forming Analysis & Technology |  |  |  |  |  |  |  |
|  |  | Nural & Fuzzy logic Network |  |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |  |  |  |
|  |  | **UNIVERSITY ELECTIVE** |  |  |  |  |  |  |  |
|  |  | Probability and Statistics |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Total** | **17** | **15** | **0** |  | **15** |  |  |
|  |  | **Total Teaching Load** |  | **15** |  |  |  |  |  |

**Year I Semester – II**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Name** | **Credits** | **Contact Hrs/Wk.** | **Exam Hrs.** | **Weightage (in%)** |
| **L** | **T/S** | **P** | **CE** | **ESE**  |
|  |  | **A. Theory Papers** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 1 | ME 512 | Engineering Economics & Accounting | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 2 | ME 514 | Tool And Cutter Design | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 3 | ME 516 | Manufacturing Management | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 4 | ME 520 | Supply Chain Management | 3 | 3 | 0 |   | 3 | 30 | 70 |
|  |  |  |  |  |  |  |  |  |  |
| 5 |  | **B. Elective Paper** | 3 | 3 | 0 |   | 3 | 30 | 70 |
|  | ME 518 | Industrial Automation | - |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | HS 502 | Soft Skills Training II | - |  |  |  |  |  |  |
|  |  | **C.Discipline and Co-Curricular Activities** |  |  |  |  |  |  |  |
| **6** | DE 502 | **Discipline and Extra Curricular Activities**  | 2 |  |  |  |  | 100 |  |
|  |  | **Total** | **17** | **15** | **0** |  | **15** |  |  |
|  |  | **Total Teaching Load** |  | **15** |  |  |  |  |  |

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**DEPARTMENT OF MECHANICAL ENGINEERING**

**Teaching and Examination Scheme for M. Tech. FULL-TIME (Core) (Manufacturing and Industrial Engineering)**

**EFFECTIVE FROM ACADEMIC SESSION 2014-15**

**To be implemented in session 2015­16**

**Year II Semester – III**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Name** | **Credits** | **Contact Hrs/Wk.** | **Exam Hrs.** | **Weightage (in%)** |
| **L** | **T/S** | **P** | **CE** | **ESE**  |
|  |  | **A. Theory Papers** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 1 | ME 605 | Machine Tool Design | 3 | 3 | 0 |   | 3 | 30 | 70 |
| 2 |  | **B. Elective Paper**  | 3 | 3 | 0 |   | 3 | 30 | 70 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | ME 607 | Research Methodology |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 3 |  | **B. Practical & Sessional:** |   |   |   |   |   |   |   |
| 4 | ME 651 | Energy Engineering Lab | 2 | 0 |  | 3 |  | 60 | 40 |
|  | ME 653 | Seminar | 5 | 0 |   | 9 | -  | 60 | 40 |
|  |  | **Total** | **13** | **6** | **0** | **12** | **15** |  |  |
|  |  | **Total Teaching Load** |  | **18** |  |  |  |  |  |

**Year II Semester – IV**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course Code** | **Course Name** | **Credits** | **Contact Hrs/Wk.** | **Exam Hrs.** | **Weightage (in%)** |
| **L** | **T/S** | **P** | **CE** | **ESE**  |
|  |  | **A. Practical & Sessional:** |  |  |  |  |  |  |  |
| 1 | DI 602 | M. Tech. Dissertation / Thesis  | 16 | 0 | 0 | 0 |   | 60 | 40 |
|  |  | **Total** | **16** | **0** | **0** | **0** |  |  |  |
|  |  | **Total Teaching Load** |  | **18** |  |  |  |  |  |