**Name of the Programme: Master of Technology (Executive) in Energy Management**

**Eligibility:**

The candidate should have at least 55% aggregate marks in B.E. / B.Tech./ M.Sc. (Physics) in a relevant subject or any other equivalent degree from a recognised University. Relaxation of 5% marks in eligibility for SC/ ST candidates.

The candidates must have minimum two years of working experience after qualifying degree. The candidates have to submit a certificate from the employer on the prescribed Performa.

**Number of seats: 15**

**Age Limit:** No Age Limit

**Curriculum:**

**First Semester:**

|  |  |  |
| --- | --- | --- |
| Code | Title | Credits (L-T-P) |
| CORE COURSES |
| **EN7C** -701 | Solar Energy: Fundamentals, Devices and Systems | 4 (2-1-1) |
| **EN7C** -702 | Engineering Thermodynamics, Heat Transfer and Process Integration  | 4 (2-1-1) |
| **EN7C** -703 | Water and Waste Water: Pollution & Control Technologies | 4 (2-1-1) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online |
| **EN7C** -704 | Waste to Energy Conversion | 4 (2-1-1) |
| **EN7C** -705 | Principles Of Casting Technology | 4 (2-1-1) |
| ELECTIVE GENERIC:  |
| **EN7C** -706 | Minor Project-I | 4 (0-0-8) |
| **EN7C** -707 | Comprehensive Viva-vice | 4 |
|  | Total Credit | 24 |

**Second Semester:**

|  |  |  |
| --- | --- | --- |
| Code | Title | Credits (L T P) |
| CORE COURSES |
| **EN7C** -708 | Air and Noise Pollution: Effects and Control Technologies | 4 (2-1-1) |
| **EN7C** -709 | Energy Management (Thermal & Electrical) | 4 (2-1-1) |
| **EN7C** -710 | New & Renewable Energy, Sources and Technologies | 4 (2-1-2) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online |
| **EN7C** -711 | Introduction To Remote Sensing | 4 (2-1-1) |
| **EN7C** -712 | Bio-energy | 4 (2-1-1) |
| ELECTIVE GENERIC:  |
| **EN7C** -713 | Minor Project-II | 4 (0-0-8) |
| **EN7C** -714 | Comprehensive Viva-vice | 4 |
|  | Total Credit | 24 |

**Third Semester:**

|  |  |  |
| --- | --- | --- |
| Code | Title | Credits (L-T-P) |
| CORE COURSES |
| **EN7C** -801 | Green Building Technologies  | 4 (2-1-1) |
| **EN7C** -802 | Bio and Solid Waste Management  | 4 (2-1-1) |
| **EN7C** -803 | Sustainable development, Environmental Auditing and Environmental Impact Assessment | 4 (2-1-1) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online |
| **EN7C** -804 | Geo-environmental Engineering Landfills Slurry Ponds And Contaminated | 4 (2-1-1) |
| **EN7C** -805 | Technical English For Engineers | 4 (2-1-1) |
| ELECTIVE GENERIC: |
| **EN7C** -806 | Minor Project-III | 4 (0-0-8) |
| **EN7C** -807 | Comprehensive Viva-vice | 4 |
|  | Total Credit | 24 |

**Fourth Semester:**

|  |  |  |
| --- | --- | --- |
| Code | Title | Credits (L T P) |
| CORE COURSES |
| **EN7C** -808 | Energy Modelling and Project Management | 4 (2-1-1) |
| **EN7C** -809 | Electrical Power Generation, Instrumentation, Measurements, Transmission and Distribution | 4 (2-1-1) |
| **EN7C** -810 | Efficient Lighting: Sources, Systems and Design Aspects | 4 (2-1-1) |
| ELECTIVE COURSES-DISCIPLINE CENTRIC (Any One) through Online |
| **EN7C** -811 | Design Of Photovoltaic Systems | 4 (2-1-1) |
| **EN7C** -812 | Noise Management And Control | 4 (2-1-1) |
| ELECTIVE GENERIC: |
| **EN7C** -813 | Minor Project-IV | 4 (0-0-8) |
| **EN7C** -814 | Comprehensive Viva-vice | 4 |
|  | Total Credit | 24 |
|  | Grand Total Credit | 96 |

Note: The above course contents can be modified as per requirement from time to time in accordance with University Ordinance No. 14.