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

|  |  |
| --- | --- |
| Eligibility | Graduate Degree in Engineering or M Sc. Physics with minimum 55% marks |
| Duration | 4 Semesters |
| Seats | 18 |

**Age Limit:** No age limit

**First Semester:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Code | Title | Credits (L-T-P) | Hours | Faculty |
| **CORE COURSES** |  |  |
| EN7A-701 | Solar Energy: Fundamentals, Devices and Systems | 4 (3-1-0) | 64 |  |
| EN7A-702 | New & Renewable Energy, Sources and Technologies | 4 (3-1-0) | 64 |  |
| EN7A-703 | Water and Waste Water: Pollution & Control Technologies | 4 (3-1-0) | 64 |  |
| EN7A-704 | Heat Transfer and Energy Conservation Laboratory | 3 (0-0-3) | 48 |  |
| EN7A-705 | Energy & Environment Software Application | 3 (0-0-3) | 48 |  |
| EN7A-706 | Field Visit | 1 (0-0-1) | 16 |  |
| EN7A-707 | Seminar | 2 |  |  |
| **ELECTIVE COURSES** |
| EN7A-708 | Electrical Power Generation, Instrumentation, Measurements, Transmission and Distribution | 3 (2-1-0) | 48 |  |
| EN7A-709 | Comprehensive Viva-vice | 4 |  |  |
|  | Total Credit | 28 |  |  |

**Second Semester:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Code | Title | Credits (L T P) |  |  |
| **CORE COURSES** |  |  |
| EN7A-710 | Engineering Thermodynamics, Heat Transfer and Process Integration | 4 (3-1-0) | 64 |  |
| EN7A-711 | Air and Noise Pollution: Effects and Control Technologies | 4 (3-1-0) | 64 |  |
| EN7A-712 | Bio and Solid Waste Management | 4 (3-1-0) | 64 |  |
| EN7A-713 | Green Building Technologies | 4 (3-1-0) | 64 |  |
| EN7A-714 | Solar Thermal and Photo - Voltaic Laboratory | 3 (0-0-3) | 48 |  |
| **ELECTIVE COURSES** |  |  |
| EN7A-715 | Energy Modeling and Project Management | 3 (0-0-3) | 48 |  |
| EN7A-716 | Comprehensive Viva-vice | 4 |  |  |
|  | Total Credit | 26 |  |  |

**Third Semester:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Code | Title | Credits (L T P) |  |  |
| **CORE COURSES** |  |  |
| EN7A-801 | Energy Management (Thermal System) | 4 (3-1-0) | 64 |  |
| EN7A-802 | Energy Management (Electrical System) | 4 (3-1-0) | 64 |  |
| EN7A-803 | Efficient Lighting: Sources, Systems and Design Aspects | 4 (3-1-0) | 64 |  |
| EN7A-804 | Biomass and Environmental laboratory | 3 (0-0-3) | 48 |  |
| EN7A-805 | Minor Project  | 4 (0-0-4) | 64 |  |
| **ELECTIVE COURSES** |  |  |
| EN7A-806 | Sustainable development, Environmental Auditing and Environmental Impact Assessment | 3 (0-0-3) | 46 |  |
| EN7A-807 | Comprehensive Viva-vice | 4 |  |  |
|  | Total Credit | 26 |  |  |

**Fourth Semester:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Code | Title | Credits (L T P) |  |  |
| **CORE COURSES** |  |  |
| EN7A-808 | Major Project | 12 (0-0-12) |  |  |
| EN7A-809 | Comprehensive Viva-vice | 4 |  |  |
|  | Total Credit | 16 |  |  |

 **10 seats are available for GATE qualified candidates. \* Scholarship @Rs.12,400/ month for GATE qualified candidates**