

Master of Technology in Electric Mobility

School of Electrical Engineering

| Programme Credit Structure | Credits | Discipline Elective Courses | 12 |
|--|----------------|--|-----------|
| Discipline Core Courses | 24 | MELM601L EV and HEV Automotive FPGA | 2 0 0 2 |
| Skill Enhancement Courses | 05 | MELM601P EV and HEV Automotive FPGA | 0 0 2 1 |
| Discipline Elective Courses | 12 | Lab | |
| Open Elective Courses | 03 | MELM602L Lightweight and Sustainable | 3 0 0 3 |
| Project/ Internship | 26 | Materials: E-Mobility perspective | |
| Total Graded Credit Requirement | 70 | MELM603L Automotive Noise, Vibrations | 3 0 0 3 |
| | | and Condition Monitoring | |
| Discipline Core Courses | 24 | MELM604L Connected and Autonomous Vehicles | 3 0 0 3 |
| | L T P C | MELM605L Artificial Intelligence and Machine Learning for Electric Mobility | 3 0 0 3 |
| MELM501L Electric Vehicle Technology | 3 0 0 3 | MELM606L Recycling, Reusability and Remanufacturing Technologies for Automotive Industry | 3 0 0 3 |
| MELM502L Automotive Embedded Systems | 2 0 0 2 | MELM607L Aerial Electric Vehicular Technology | 3 0 0 3 |
| MELM502P Automotive Embedded Systems Lab | 0 0 2 1 | MELM608L Techno-economical aspects of Electric Vehicle | 3 0 0 3 |
| MELM503L Design of Automotive Power Converters | 3 0 0 3 | MELM609L Societal impacts of Electric Vehicle | 3 0 0 3 |
| MELM503P Design of Automotive Power Converters Lab | 0 0 2 1 | | |
| MELM504L Batteries for Electric Vehicles: Multidisciplinary Perspectives | 3 0 0 3 | Open Elective Courses | 03 |
| MELM505L Electric Motor Drives | 3 0 0 3 | Engineering Disciplines Social Sciences | |
| MELM505P Electric Motor Drives Lab | 0 0 2 1 | | |
| MELM506L Automotive Electrical and Electronics Systems | 3 0 0 3 | Project and Internship | 26 |
| MELM507L Charging Infrastructure for Electric Vehicles | 3 0 0 3 | MELM696J Study Oriented Project | 02 |
| MELM508P Electric Vehicle Lab | 0 0 2 1 | MELM697J Design Project | 02 |
| Skill Enhancement Courses | 05 | MELM698J Internship I/ Dissertation I | 10 |
| MENG501P Technical Report Writing | 0 0 4 2 | MELM699J Internship II/ Dissertation II | 12 |
| MSTS501P Qualitative Skills Practice | 0 0 3 1.5 | | |
| MSTS502P Quantitative Skills Practice | 0 0 3 1.5 | | |