

Master of Technology in Smart Mobility

School of Mechanical Engineering

| Programme Credit Structure | | Credits | | | | | | | |
|--|---|-----------|----------|----------|----------|---|--|---|-------|
| University Core Courses | | 39 | | | | MASMB606 | Smart Convergent Technologies | 3 | 1 0 4 |
| Professional Core Courses | | 24 | | | | MASMB607 | Thermal Management in Electric Vehicles | 3 | 0 0 3 |
| Professional Elective Courses | | 14 | | | | MASMB608 | Vehicle Testing and Certification | 3 | 0 0 3 |
| Open Elective Courses | | 03 | | | | MASMB609 | Model-Based Mobility System Design | 2 | 0 2 3 |
| Total Graded Credit Requirement | | 80 | | | | MASMB610 | Embedded System for Mobility | 3 | 0 0 3 |
| University Core Courses | | 39 | | | | MASMB611 | Vehicle Diagnostics Systems | 3 | 0 0 3 |
| | | L | T | P | C | MASMB612 | Network and Data Communications for Smart Mobility | 3 | 0 0 3 |
| MAENG501 | Technical Report Writing | 1 | 0 | 4 | 3 | MASMB613 | Battery and Fuel Cells | 3 | 0 0 3 |
| MASTS503 | Qualitative and Quantitative Skills Practice I | 3 | 0 | 0 | 3 | Open Elective Courses | | | |
| MASTS504 | Qualitative and Quantitative Skills Practice II | 3 | 0 | 0 | 3 | 03 | | | |
| MASET697 | Project Work | 0 | 0 | 20 | 10 | Engineering Sciences Humanities Social Sciences Liberal Arts Economics Finance Management | | | |
| MASMB698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | | | | |
| MASMB699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | | | | |
| Professional Core Courses | | 24 | | | | | | | |
| MASMB501 | Vehicle Systems Engineering | 3 | 1 | 0 | 4 | | | | |
| MASMB502 | Electric and Hybrid Vehicle Systems | 3 | 0 | 2 | 4 | | | | |
| MASMB503 | Artificial Intelligence for Mobility | 3 | 1 | 0 | 4 | | | | |
| MASMB504 | Autonomous and Connected Vehicles | 3 | 0 | 2 | 4 | | | | |
| MASMB505 | Automotive Control Systems | 3 | 1 | 0 | 4 | | | | |
| MASMB506 | Automotive powertrain systems | 3 | 1 | 0 | 4 | | | | |
| Professional Elective Courses | | 14 | | | | | | | |
| MASMB601 | Vehicle Dynamics | 3 | 0 | 2 | 4 | | | | |
| MASMB602 | Vehicle Aerodynamics | 3 | 1 | 0 | 4 | | | | |
| MASMB603 | Automotive Noise, Vibration and Harshness | 3 | 1 | 0 | 4 | | | | |
| MASMB604 | Vehicle Safety Engineering | 3 | 1 | 0 | 4 | | | | |
| MASMB605 | Intelligent Transportation Systems | 3 | 1 | 0 | 4 | | | | |