Master of Technology in Smart Mobility

School of Mechanical Engineering

Programme Credit Structure	Credits
Discipline Core Courses	24
Skill Enhancement Courses	05
Discipline Elective Courses	12
Open Elective Courses	03
Project/ Internship	26
Total Graded Credit Requirement	70

Discipline Core Courses **24**

		L	T	P	C
MSMO501L	Vehicle Systems Engineering	3	0	0	3
MSMO502L	Automotive Control System	3	0	0	3
MSMO503L	Artificial Intelligence for Mobility	2	0	0	2
MSMO504L	Electric Vehicle Powertrain	3	0	0	3
MSMO504P	Electric Vehicle Powertrain Lab	0	0	2	1
MSMO505E	Model Based Mobility System Design	2	0	2	3
MSMO506L	Autonomous And Connected Vehicles	2	0	0	2
MSMO506P	Autonomous And Connected Vehicles Lab	0	0	2	1
MSMO507L	Battery and Fuel Cells for Smart Mobility	3	0	0	3
MSMO508L	Advanced Drivetrain Systems	3	0	0	3

Skill Enhancement Courses **05**

MENG501P	Technical Report Writing	0	0	4	2
MSTS501P	Qualitative Skills Practice	0	0	3	1.5
MSTS502P	Quantitative Skills Practice	0	0	3	1.5

Discipline Elective Courses **12**

MSMO601L	Embedded System for Mobility	3	0	0	3
MSMO602L	Vehicle Testing and Certification	3	0	0	3
MSMO603L	Vehicle Dynamics	3	0	0	3
MSMO604L	Vehicle Diagnostics System	3	0	0	3
MSMO605L	Power Electronics and Charging Systems for Electric Vehicles	3	0	0	3
MSMO606L	Vehicle Safety Engineering	3	0	0	3
MSMO607L	Intelligent Transportation Systems	3	0	0	3
MSMO608L	Noise, Vibration and Harshness	3	0	0	3
MSMO608P	Noise, Vibration and Harshness Lab	0	0	2	1
MSMO609L	Hydrogen Energy for Smart Mobility	3	0	0	3
MSMO610L	Automotive Transmission System	3	0	0	3
MSMO611L	Thermal Management System for Electric Vehicles	3	0	0	3
MSMO612L	Networks & Communications for Smart Mobility	3	0	0	3
MSMO613L	Smart Convergent Technologies	3	0	0	3
MSMO614L	Cybersecurity For Mobility Systems	3	0	0	3
MSMO615L	Autonomous Systems and Predictive Modelling	3	0	0	3
MSMO616L	Automotive Product Design and Life Cycle management	3	0	0	3
MSMO617L	Computational Fluid Flow and Heat Transfer	3	0	0	3
MSMO617P	Computational Fluid Flow and Heat Transfer Lab	0	0	2	1
MSMO618L	Finite Element Methods	3	0	0	3
MSMO618P	Finite Element Methods Lab	0	0	2	1
MSMO619L	Lightweight Materials for Smart Mobility	3	0	0	3

Open Elective Courses **03**

Engineering Disciplines | Social Sciences

Project and Internship **26**

MSMO696J	Study Oriented Project	02
MSMO697J	Design Project	02
MSMO698J	Internship I/ Dissertation I	10
MSMO699J	Internship II/ Dissertation II	12