

Master Title: Management and Engineering of Transport Systems Maintenance (M.E.T.S.M)

Semester 1:

Unit of Study	Weekly Hours	Coefficient	Credits	Evaluation Mode
14-16 Sem	C	TD	TP	Others
Fundamental Units				
UF1(O/P)	112.5	67.5	45	-
MIM1: Organization and Management of Maintenance	67.5	3	1.5	-
MIM2: RMAS (Reliability, Maintainability, Availability, Safety)	45	1.5	1.5	-
UF2(O/P)	90	45	45	-
MIM3: Quality Management	45	1.5	1.5	-
MIM4: Management and Regulation of Transport	45	1.5	1.5	-
Methodology Unit				
UM1(O/P)	105	90	30	-
MIM5: Materials	22.5	1.5	-	-
MIM6: Statistics	30	1.5	1/15	-
MIM7: Numerical Methods	30	1.5	1/15	-
MIM8: Operations Research	22.5	1.5	-	-
Discovery Unit				
UD1(O/P)	45	22.5	-	22.5
MIM9: Measurement Techniques	45	1.5	-	1.5
Transversal Units				
UT1(O/P)	22.5	22.5	-	-
MIM10: Lifting and Handling Devices	22.5	1.5	-	-
Total Semester 1	375	247.5	120	22.5

Semester 2:

Unit of Study	Weekly Hours	Coefficient	Credits	Evaluation Mode
14-16 Sem	C	TD	TP	Others
Fundamental Units				
UF1(O/P)	112.5	67.5	45	-
MIM11: Tools for Condition-Based Maintenance	67.5	3	1.5	-

Unit of Study	Weekly Hours	Coefficient	Credits	Evaluation Mode
MIM12: TPM and MBF Maintenance Methods	45	1.5	1.5	-
UF2(O/P)	90	45	45	-
MIM13: Failures and Analysis Tools	45	1.5	1.5	-
MIM14: Infrastructure Management	45	1.5	1.5	-
Methodology Unit				
UM1(O/P)	105	90	-	15
MIM15: Computerized Maintenance Management (CMM)	30	1.5	-	1h / 15
MIM16: Simulation Techniques	30	1.5	-	1h / 15
MIM17: Economic Aspects of Maintenance	22.5	1.5	-	-
MIM18: Continuous Improvement Tools	22.5	1.5	-	-
Discovery Unit				
UD1(O/P)	22.5	22.5	-	-
MIM19: Maintenance and Occupational Health and Safety (MOHS)	22.5	1.5	-	-
Transversal Units				
UT1(O/P)	45	22.5	22.5	-
MIM20: Expression and Communication (English)	45	1.5	1.5	-
Total Semester 2	375	247.5	112.5	15

Semester 3:

Unit of Study	Weekly Hours	Coefficient	Credits	Evaluation Mode
14-16 Sem	C	TD	TP	Others
Fundamental Units				
UF1(O/P)	112.5	45	45	22.5
MIM21: Dynamic Reliability	45	1.5	1.5	-
MIM22: Non-destructive Testing and Oil Analysis	67.5	1.5	1.5	1.5
UF2(O/P)	90	45	45	-
MIM23: Functional Analysis	45	1.5	1.5	-
MIM24: Corrosion Concepts and Protection	45	1.5	1.5	-
Methodology Unit				
UM1(O/P)	105	90	15	-
MIM25: Vibrational Analysis	30	1.5	1h / 15	-
MIM26: Mathematics and Tools in Maintenance	22.5	1.5	-	-

MIM27: Design and Maintainability	22.5	1.5	-	-
MIM28: Thermography	30	1.5	1h / 15	-
Discovery Unit				
UD1(O/P)	22.5	22.5	-	-
MIM29: Introduction to Entrepreneurship	22.5	1.5	-	-
Transversal Units				
UT1(O/P)	45	22.5	22.5	-
MIM30: Introduction to Innovation Management	45	1.5	1.5	-
Total Semester 3	375	247.5	112.5	15