

Study Programme Overview ***Manufacturing Technology and Management, MSc***

Name of the institution	University “Isa Boletini” in Mitrovica
Faculty / Department	Faculty of Mechanical and Computer Engineering
Name of the study programme	Manufacturing Technology and Management
Qualification level according to the NQF	Level VII
Name of the diploma or academic degree	Master of Science in Manufacturing Technology and Management
ECTS	120
Minimum duration of the programme	2 years
Number of students per year	35

First Year (I)

Semester I				
Code	Course	Status	L+E	ECTS
101MTM	Advanced Manufacturing Processes	M	2+2	5
102MTM	Human Resource Management and Leadership	M	2+0	5
103MTM	Research Methods in Engineering	M	2+0	5
104MTM	Factory Planning & Lean Manufacturing	M	2+1	5
105MTM	Technology and Innovation Management	E	2+1	5
106MTM	Project Management in Manufacturing	E	2+0	5
107MTM	Virtual Product Development	E	2+0	5
108MTM	Mechatronic Systems in Manufacturing	E	2+2	5

Semester II				
Code	Course	Status	L+E	ECTS
109MTM	Smart Manufacturing and Industry 5.0	M	2+1	5
110MTM	FEM and Structural Analysis	M	2+2	5
111MTM	Probability and Statistics	M	2+2	5
112MTM	Advanced Manufacturing Scheduling and Optimization	E	2+1	5
113MTM	Financial and Risk Management	E	2+1	5
114MTM	Product Lifecycle Management & Sustainability	E	2+0	5
115MTM	Engineering Practice and Industry Integration	M	3+0	5

Second Year (II)

Semester III				
Code	Course	Status	L+E	ECTS
201MTM	Advanced Machine Design and Simulation	M	2+2	5
202MTM	Materials and Surface Engineering	M	2+1	5
203MTM	Entrepreneurship and Business Innovation	M	2+1	5
204MTM	Robotics and Automation in Manufacturing	E	2+1	5
205MTM	Machine Learning & AI Models in Manufacturing	E	2+1	5
206MTM	Business Modeling and Simulation	E	2+1	5
207MTM	Free-choice courses	E	—	5
208MTM	Industrial and Business Management Practice	M	2+0	5

Semester IV				
Code	Course	Status	L+E	ECTS
209MTM	Seminar	M	2+0	7
210MTM	Master's Thesis	M	—	23

Note: M – Mandatory course, E – Elective course; L+E – lecture hours + exercise hours per week. In each semester, students must earn at least 30 ECTS credits from the group of mandatory and elective courses.