

### MSc in Manufacturing Engineering Design

A/A	Course Type	Course Name	Course Code	Periods per week		Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
				Lect.	Lab				
<b>Semester 1</b>									
1.	Required	Manufacturing Materials and Engineering Design	MED501	3	-	50	13	39	10
2.	Required	Design for Joining Processes	MED502	2	1	50	13	39	10
3.	Required	Industrial applications of modern CAD/CAM Systems	MED503	2	1	50	13	39	10
<b>Semester 2</b>									
4.	Required	Rapid Product Development and 3D Printing	MED504	2	1	50	13	39	10
5.	Elective	One Elective from the List below	-	3	-	50	13	39	10
6.	Required	Master Thesis I: Research Methods and Thesis Preparation	MED509	2	-	50	13	26	10
<b>Semester 3</b>									
7.	Elective	One Elective from the List below	-	3	-	50	13	39	10
8.	Required	Master Thesis II: Thesis Implementation and Presentation	MED510	-	-	-	13	-	20

**Electives:**

A/A	Course Type	Course Name	Course Code	Periods per week		Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
				Lect.	Lab				
<b>List of Electives</b>									
1.	Elective	Advanced Engineering Design and Simulation	MED505	3	-	50	13	39	10
2.	Elective	Advanced Welding Processes	MED506	3	-	50	13	39	10
3.	Elective	Advanced Topics in Additive Manufacturing (Industrial innovations)	MED507	3	-	50	13	39	10
4.	Elective	Manufacturing Innovation Management	MED508	3	-	50	13	39	10