

## ПОКРИЕНОСТ ЗА ВТОР ЦИКЛУС СТУДИИ

на предметите кои ќе се предаваат  
во учебната 2019/2020 година на студиската програма:

### VIRTUAL MANUFACTURING ENGINEERING

Table 1.

No	Courses	ECTS	Winter semester	Summer semester
1.	Compulsory Teaching Courses 1 (Table 1)	6	6	
2.	Compulsory Teaching Courses 2 (Table 1)	6	6	
3.	Compulsory Teaching Courses 3 (Table 1)	6	6	
4.	Compulsory Teaching Courses 4 (Table 1)	6	6	
5.	Elective Teaching Courses 1 (Table 2 or from University list)	6	6	
6.	Elective Teaching Courses 2 (Table 2)	6		6
7.	Elective Teaching Courses 3 (Table 2)	6		6
	Master's Thesis	18		18
	<b>Total credits</b>	<b>60</b>	<b>30</b>	<b>30</b>

No.	Study program	Years/ Number of credits ECTS	Total ECTS	Number/ percent of obligatory courses	Number/ elective course
1	<b>Virtual Manufacturing Engineering</b>	1 year/ 60 ECTS	60 ECTS / 100%	42 ECTS / 70%	18 ECTS / 30%

Table 2. Compulsory Courses

No.	Код	Course programs	ECTS	Professor
1	2VME01	Virtual Manufacturing	6	Prof. Dr. Sc. Gligorche Vrtanoski
2	2VME02	Flexible Automation	6	Prof. Dr. Sc. Zoran Pandilov
3	2VME03	Technology of Rapid Prototyping	6	Prof. Dr. Sc. Atanas Kochov
4	2VME04	Intelligent Processes and Smart Technologies	6	Prof. Dr. Sc. Valentina Gechevska

Table 3. Elective courses

No.	Код	Course programs	ECTS	Professor
1	2VME05	3D Digitalization Processes in Manufacturing	6	Prof. Dr. Sc. Atanas Kochov
2	2VME06	Augmented Reality	6	Ass. prof. Dr. Sc. Tashko Rizov
3	2VME07	Numerical Control Machines and CNC Programming	6	Prof. Dr. Sc. Zoran Pandilov
4	2VME08	Computer Integrated Manufacturing	6	Prof. Dr. Sc. Gligorche Vrtanoski
5	2MSPDT P04	Modeling and Simulation of Plastic Deformation Technologies and Tools	6	Prof. Dr. Sc. Jasmina Chaloska
6	2VME09	Virtual Design of Production Systems and Machines	6	Prof. Dr. Sc. Zoran Pandilov Prof. Dr. Sc. Gligorche Vrtanoski
7	2LM14	Ergonomic Systems	6	Prof. Dr. Sc. Jasmina Chaloska
8	2OMI01	Selected Topics in Mathematics and Informatics	6	Prof. Dr. Sc. Dushan Chakmakov Prof. Dr. Sc. Aleksa Malcheski Prof. Dr. Sc. Nikola Tuneski
9	2OMI07	Database Systems	6	Prof. Dr. Sc. Dushan Chakmakov
10	2IIM14	Business Information Systems	6	Prof. Dr. Sc. Robert Minovski
11	2LM10	TQM	6	Prof. Dr. Sc. Gligorche Vrtanoski
12	2VME12	Product Data Engineering	6	Prof. Dr. Sc. Valentina Gechevska

**Regarding the elective courses, the student is allowed to choose courses offered by other accredited university studies which are 6 ECTS worth.**

**Students are allowed to attend and take examination for up to two courses offered by one same professor.**