



Universiteti “Nënë Tereza” - Shkup
Универзитет “Мајка Тереза” - Скопје
“Mother Teresa” University - Skopje

Description of the Study program

<i>Code</i>	I Year Winter semester I				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Mathematics 1	3	3	240	8
	Statics	3	3	210	7
	Machine Materials 1	3	3	210	7
	Optional subject - MTU				4
	Optional subject - MTU				4
	Total O.	9	9	660	22
	Total O.+E.	13	11	900	30

<i>Code</i>	I Year Summer semester II				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Mathematics 2	3	2	180	6
	Hardness of Materials	2	3	180	6
	Machine Materials 2	2	2	120	4
	Optional subject – FTS (from list 1)				6
	Optional subject - MTU				4
	Optional subject - MTU				4
	Total O.	7	7	480	16

List 1: Elective subjects for II semester					
	Computer Aided Design	2	2	180	6
	Engineering graphics	2	3	180	6
	Total E.	2+4	3+2	180+240	6+8
	Total O.+E.	15	10	900	30



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<i>Code</i>	II Year Winter semester III				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Linear Algebra	2	2	150	5
	Kinematics and Dynamics	2	2	150	5
	Mechanical Components	2	2	150	5
	Production Technologies	2	2	150	5
	Principles of Management	2	2	150	5
	Optional subject – FTS (from List2)				5
	Total O.	10	10	750	25

List 2: Elective subjects for III semester					
	Motor vehicles	2	2	150	5
	Joining techniques	2	2	150	5
	Electrotechnics	2	2	150	5
	Total E.	2	2	150	5
	Total O.+E.	12	12	900	30

<i>Code</i>	II Year Summer semester IV				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Constructions	2	2	180	6
	Thermodynamics	2	2	180	6
	Fluid Mechanics	2	3	180	6
	Optional subject – FTS (from List 3)				6
	Optional subject – FTS (from List 4)				6
	Total O.	6	7	540	18

List 3: Elective subjects for IV semester					
	System dynamics and oscillation	2	3	180	6
	Basics of Energy	2	3	180	6
	Total E.1	2	3	180	6

List 4: Elective subjects for IV semester					
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	Mechanized and cyclic transport	2	2	180	6
	Thermal machines and devices	2	2	180	6
	Total E.2	2	2	180	6
	Total O.+E.1+E.2	10	12	900	30



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<i>Code</i>	III Year Winter semester V				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Management Systems	2	2	180	6
	Deformation processing	2	2	180	6
	Basics of cutting theory	2	2	180	6
	Optional subject – FTS (from List 5)				6
	Optional subject – FTS (from List 6)				6
	Total O.	6	6	540	18

List 5: Elective subjects for V semester					
	Construction and Integration	2	2	180	6
	Mechanical Transmissions	2	2	180	6
	Total E.1	2	2	180	6

List 6: Elective subjects for V semester					
	Vibration and noise	2	3	180	6
	Hydraulic Machines	2	3	180	6
	Total E.2	2	3	180	6
	Total O.+E.1+E.2	10	11	900	30

<i>Code</i>	III Year Summer semester VI				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Form Processing Method	2	2	180	6
	Numerical Management with CAD/CAM	2	2	180	6
	Optional subject – FTS (from List 7)				6
	Optional subject – FTS (from List 8)				6
	Optional subject – FTS (from List 9)				6
	Total O.	4	4	360	12

List 7: Elective subjects for VI semester					
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	Design of bearing structures	2	2	180	6
	Engines and fuels	2	2	180	6
Total E.1		2	2	180	6

List 7: Elective subjects for VI semester

	Basics of mechatronic systems	2	3	180	6
	Hydraulic and pneumatic components	2	2	180	6
Total E.2		2	3	180	6

List 8: Elective subjects for VI semester

	Modeling tools for plastics	2	2	180	6
	Rapid prototyping, models and tools	2	2	180	6
Total E.3		2	2	180	6
Total O.+E.1+E.2+E.3		10	11	900	30



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<i>Code</i>	IV Year Winter semester VII				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Metrology and Measurement Systems	2	2	180	6
	Computer Engineering and Support	2	2	180	6
	Economic Engineering	2	2	180	6
	Optional subject (from List 10)				6
	Optional subject (from List 11)				6
	Total O.	6	6	540	18

List 10: Elective subjects for VII semester					
	Automated production and robotics	2	2	180	6
	Tools and systems tools	2	2	180	6
	Total E.1	2	2	180	6

List 11: Elective subjects for VII semester					
	Technological process design	2	2	180	6
	Production systems	2	2	180	6
	Total E.2	2	2	180	6
	Total O.+E.1+E.2	10	10	900	30

<i>Code</i>	IV Year Summer semester VIII				
	Obligatory subjects	Lecture	Exercises	Fund	ECTS
	Technological and Maintenance Systems	2	2	150	5
	Quality Management and Control	2	2	150	5
	Optional subject – FTS (from list 12)				5
	Optional subject – FTS (from list 13)				5
	Graduate thesis			300	10
	Total O.	4	4	600	20

List 12: Elective subjects for VIII semester					
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	Computer modeling and simulation of shaping processes	2	2	150	5
	Entrepreneurship and small business	2	2	150	5
Total E.1		2	2	150	5

List 13: Elective subjects for VIII semester					
	Modeling tools with shaping	2	2	150	5
	Unconventional methods of processing	2	2	150	5
Total E.2		2	2	150	5
Total O.+E.1+E.2		8	8	900	30