

Mechanical Engineering - first cycle studies (BSc)		Elective classes	Form of assessment	ECTS	Number of hours	ECTS sem. 1	No. of hours sem.1	ECTS sem. 2	No. of hours sem. 2	ECTS sem. 3	No. of hours sem.3	ECTS sem. 4	No. of hours sem. 4	ECTS sem. 5	No. of hours sem.5	ECTS sem. 6	No. of hours sem.6	ECTS sem. 7	No. of hours sem.7	Form of classes	Semester	Total ECTS for the group of classes						
Path 1	Design and construction	Yes/No	Assignment /Exam	210	2595	30	25	30	25	30	25	30	25	30	25	30	25	30	23	W	Ć	L	P	S	K			
Path 2	Technological processes			210	2595	30	25	30	25	30	25	30	25	30	25	30	25	30	23									
No.	GENERAL CONTENT			0	0																							
1	Physical education I	N	A	0	30	0	2																					0
2	Physical education II	N	A	0	30			0	2																			0
	FOREIGN LANGUAGE																											8
3	English Language I	N	A	2	30	2	2																					1
4	English Language II	N	A	2	30			2	2																			2
5	English Language III	N	A	2	30					2	2																	3
6	English Language IV	N	E	2	30							2	2															4
	HUMANITIES, ECONOMICS AND SOCIAL SCIENCES GROUP (HES)																											6
7	HES 1 (elective classes)	Y	A	2	15	2	1																					0
	Communication techniques and tools			0	0																							1
	Sociology			0	0																							1
	Philosophy			0	0																							1
	Environmental management			0	0																							1
	Life cycle assessment of engineering materials			0	0																							1
	Intellectual property protection, occupational safety and ergonomics			0	0																							1
	Social competences and self-presentation techniques			0	0																							1
8	HES 2 (elective classes)	Y	A	1	15			1	1																			2
	Intellectual property protection			0	0																							2
	Fundamentals of social communication			0	0																							1
	Negotiation techniques			0	0																							1
	Management methods and decision-making			0	0																							1
	Business ethics			0	0																							1
	History of technology			0	0																							1
9	HES 3 (elective classes)		A	1	15					1	1																	3
	Elements of economic policy and economic law	Y		0	0																							1
	Basics of entrepreneurship	Y		0	0																							1
	Industrial marketing			0	0																							1
	Microeconomics			0	0																							1
	Management methods and decision-making			0	0																							1
10	HES 4 (elective classes)		A	1	15									1	1													5
	Ecology and environmental management	Y		0	0																							1
	Cost accounting for engineers	Y		0	0																							1
	Economics and production costs	Y		0	0																							1
	Quality engineering	Y		0	0																							1
	Quality management methods and techniques	Y		0	0																							1
	Technology management	Y		0	0																							1
11	HES 5 (elective classes)		A	1	30													1	2									7
	Ergonomics and occupational safety	Y		0	0																							1
	Quality engineering and technology management	Y		0	0																							2
	MATHEMATICS CLASSES GROUP																											0
12	Introduction to mathematics (compendium)	N	A	2	30	2	2																					1
13	Mathematics	N	E	6	60	6	4																					2
14	Mathematics II	N	E	4	60			4	4																			2
15	Mathematical statistics and numerical methods	N	A	4	45					4	3																	3
	PHYSICS CLASSES GROUP																											0
16	Introduction to physics (compendium)	N	A	2	30	2	2																					1
17	Physics	N	E	5	45			5	3																			2
18	Experimental mechanics (physics)	N	A	3	30					3	2																	3
	MAJOR-RELATED CONTENT																											0
19	Basics of computer science		A	5	45	5	3																					1
	Programming language (Python or C++)			0	0																							2
	Databases			0	0																							1
20	Engineering graphics	N	A	5	45	5	3																					2
21	Fundamentals of materials science	N	E	5	60			5	4																			2
22	Engineering tool software	N	A	5	60					5	4																	3
	Scientific and engineering computing environments			0	0																							2
	Computer simulation environments			0	0																							1
	Free and open source software for science and engineering			0	0																							1
23	Zapis kontrstrukciji/Construction record/Technical drawing	N	A	4	45			4	3																			2
24	Metal materials with heat and surface treatment elements	N	E	5	75					5	5																	3
25	General machine science	N	E	6	90	6	6																					1
	Working and technological machines			0	0																							2
	Energy machines			0	0																							1
	Electric machines			0	0																							1
26	Mechanics I	N	A	6	60			6	4																			2
27	Mechanics II	N	E	5	60					5	4																	3
28	Strength of materials I	N	A	5	60					5	4																	3
29	Strength of materials II	N	E	5	60							5	4															4
30	Electrotechnics and electronics	N	E	6	60																							

