

CURRICULUM

VALID BEGINNING WITH ACADEMIC YEAR 2017 - 2018

Nr. crt.	Year I		Subject code	Subject type	Semester 1				Semester 2				Individual study	Credit points		Evaluation type		Hours / Subject		
	Subject				C	S	L	P	C	S	L	P		Sem.1	Sem.2	Sem.1	Sem.2	Course	Application	Total
1.	Mathematical methods in mechanical engineering		2MMM1OS01	S	2		2					3	6		E1		28	28	56	
2.	Design engineering		2MMM1OD02	D	2		1	1				3	6		E1		28	28	56	
3.	Mechanical systems engineering I, II		2MMM 1/2 OD03	D	2		2		2		1	1	3+3	6	6	E1	E2	56	56	112
4.	Optional subject 11		2MMM2AD04	D					2		2		3		6		C2	28	28	56
5.	Unconventional materials and technologies		2MMM1OD05	D	2		2						3	6		E1		28	28	56
6.	Unit transfer processes and operations I, II		2MMM 1/2 OD06	D	2		2		2		1	1	3+3	6	6	C1	E2	56	56	112
7.	Machines for roads, mines and construction I		2MMM2OS07	S					2		2		3		6		E2	28	28	56
8.	Fluid – based processing installations and equipment I		2MMM2OS08	S					2		1	1	3		6		E2	28	28	56
TOTAL number of hours C,S,L,P / week					10		9	1	10		7	3	30	30	30	4E+1C	4E+1C	280	280	560

Nr. crt.	Year II		Subject code	Subject type	Semester 3				Semester 4				Individual study	Credit points		Evaluation type		Hours / Subject		
	Subject				C	S	L	P	C	S	L	P		Sem.1	Sem.2	Sem.1	Sem.2	Course	Application	Total
9.	Machines for roads, mines and construction II		2MMM3OS09	S	2		1	1					3	6		E3		28	28	56
10.	Fluid – based processing installations and equipment II		2MMM3OS10	S	2		1	1					3	6		E3		28	28	56
11.	Optional subject 21		2MMM3AD11	D	2		2						3	6		C3		28	28	56
12.	Optional subject 22		2MMM3AS12	S	2		2						3	6		E3		28	28	56
13.	Evaluation of energy efficiency of industrial processes		2MMM3OD13	D	2		2						3	6		E3		28	28	56
14.	Research activity		2MMM4OS14	S							10			10		C4		140	140	140
15.	Research, documentation and elaboration of dissertation		2MMM4OS15	S							10			20		C4		140	140	140
TOTAL number of hours C,S,L,P / week					10		8	2			10	10	15	30	30	4E+1C	2C	140	420	560

Annex 1 OPTIONAL COURSES			
Year	Code	Subject	
1	OP11	Mechatronics	Nanotechnology
2	OP21	Research Methodology	Scientific Creativity
2	OP22	Safety of Mechanical Systems	Product standardisation and certification

ANEXA 3 Repartition of hours on subject groups			
Total hours of activities:		N=1120 hours	
Total course hours / Total applicative hours (%)		420/700 (60%)	
Total hours / Subject groups		1120 /3	
Subject groups		n [ore]	n/N [%]
Technical Field Subjects (D)		504	45,00
Technical Speciality Subjects (S)		616	55,00
Complementary subjects (X)	Economic Subjects (E)		
	Humanistic Subjects (U)		
Total		1120	100
Optional Subjects		168	15,00

Legend 2 -Faculty of Mechanical and Electrical Engineering; **M** - Mechanical Engineering; - Process Installations and Equipment; **F** - fundamental subject; **D** - field subjects; **S** - Specialty subjects. **X** -complementary subjects; **C** - course; **S** - seminary; **L** - laboratory application; **P** - project. **Ex.** - (E1...4) exam 1 ... 4; **Cv.** - (C1...4) written verification in semester 1 ... 4; Credit points; **Individual study.** - Hours required for individual study at home.

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