MECHANICAL AND PRODUCTION ENGINEERING DEPARTMENT

COURSES, TIMETABLES AND ECTS GUIDE

		Ι	FIRST Y	EAR				
<u>SEMES</u> UE	STER 1: CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
	M1101	Mechanical engineering: study	4		10	10	40	
UE11	M1102	Dimensioning of structures: testing the strength of materials	2	10	8	18	4	_
	M1103	Mechanics: basic principle statics	2		6	20	4	150
	M1104	Materials science: material property	2		9	9	12	
Total U	E11				33	57	60	150
	M1201	Production engineering: basis of the production process	3		7	10	28	
	M1202	Organisation and Methods : Introduction on the production process	2.5		6	16	8	-
UE12	M1203	Metrology : measures and control	1		3	4	8	120
	M1204	Electricity – Electronics and Automatism (EEA): basis concepts of electricity		9	6	12	12	
	M1214	EEA: basics of automatism	2.5					
Total U	E12		1	<u>I</u>	22	42	56	120

	M1301	Mathematics: mathematical tools	2.5		14	28	3	
	M1302	Expression and Communication (EC): fundamental elements of communication	2		1	14	15	185
	M1303	Personal and professional project: professional environment	1	11	6	6	8	
UE13	M1304	Foreign languages: communication in foreign languages	2.5			15	15	
	M1306	Methodology and individual assistance: support the student	1		2	4	24	
	M1307	Informatics: spreadsheets and programming languages	2		5	10	15	1
Total U	Total UE13				28	77	80	185
	TOTAL SEMESTER 1:			30	83	176	196	455

SEME	STER 2:	F	IRST YE	AR				
UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
	M2101	Mechanical engineering: design	3		8	12	40	
UE21	M2102	Dimensioning of structures: testing of materials – torsion, bending	2	10	10	16	4	195
UE21	M2103	Mechanics: dynamics of solid: kinematics kinetics, PFD	3	- 10	18	38	4	_ 193
	M2104	Materials science: Material usage	2		15	14	16	
Total U	J E21		•		51	80	64	
	M2201	Production engineering: production resources.	2.5		8	12	40	
UE22	M2202	Organisation and Methods: from the definition of the product to the manufacturing process	1.5	8	6	12	12	180
	M2203	Metrology: three-dimensional metrology and surface processing	1.5		6	8	16	
	M2204	Electricity – Electronics and Automatism (EEA): electric motorisation	2.5		12	24	24	
	M2214	EEA: automatism of a workstation, security						
Total U	J E22				32	56	92	
	M2301	Mathematics: integral and matrix calculation	3		19	35	6	
UE23	M2302	Expression and Communication: communication, information, argumentation	2	12	1	14	15	180
	M2303	Personal and professional project: professional integration	1		5	4	6	
	M2304	Foreign languages: technical and professional foreign language – search and transfer data	2			15	15	
	M2305	Organization and industrial management: carry out a project	2		10	15	20	
	M2308	Synthesis works and project	2					100
Total U	J E23		I	I	35	83	62	280
		TOTAL SEMESTER 2:		30	118	219	218	555

SEME	STER 3:	SI	ECOND	YEAR				
UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
	M3101	Mechanical engineering: power transfer	3		12	23	25	
	M3111	Mechanical engineering: CAD / CAM process chain	1.5		1	4	25	_
UE31	M3102	Dimensioning of structures: elasticity – combined testing of materials	2	10	8	18	4	180
	M3103	Mechanics: dynamics and energetics	2.5		9	28	8	-
	M3104C	Material selection	1		2	9	4	
Total U	J E31				32	82	66	180
	M3201	Production engineering: prepare production using a CN machinery	2	- 11	4	6	20	180
	M3202	Organisation and Methods : study and cost-optimization	2		6	12	12	
UE32	M3203C	Metrology : metrology and advanced control	1		3	6	6	
	M3204	Electricity – Electronics and Automatism (EEA): data processing	3		8	15	22	
	M3214	EEA: integration of automated systems	1					
	M3205	Organization and industrial management: process management	3		14	18	28	-
Total U	JE32	·			35	57	88	180

	M3301	Mathematics: mathematical functions	2		9	18	3	
	M3302	Expression and Communication: professional and academic communication	1		1	7	7	
UE33	M3303	Personal and professional project: preparation for internship – graduation – international mobility	1	9	7	8	10	115
	M3304	Foreign languages: technical and professional language – writing and speaking in an intercultural context	2			15	15	
	M3307C	Informatics: databases	1		3	4	8	
	M3308	Synthesis works and project	2					
Total U	Total UE33				20	52	43	100
		TOTAL SEMESTER 3:		30	87	191	197	475

SEME	STER 4:	SI	ECOND	YEAR				
UE	CODE	Module	ECTS	Total	Courses	Tutorials	Practical work	Total/semester
	M4101C	Mechanical engineering: study	2		2	10.5	40	
UE41	M4102C	Dimensioning of structures: energy methods and final element modelling	1	6	8	18	4	112.5
	M4105C	Mechanical engineering and dimensioning of structures	1	-		14	16	
	M4108	Synthesis works and project	2					50
Total UE41					10	42.5	60	162.5
	M4201C	Production engineering: prepare production under industrial conditions	1	6		10	20	
	M4202C	Organisation and Methods: multi-process industrialisation	2		8	12.5	32	97.5
UE42	M4212C	Organisation and Method : study CAD/CAM process chain	1		2	4	9	
	M4204C	Electricity – Electronics and Automatism (EEA): automation of a continuous system	2					
	M4208	Synthesis works and project						50
TotalU	E42	<u> </u>	1	I	10	26.5	61	147.5

	M4301C	Mathematics: curves	1		5	10		
	M4302C	Expression and Communication: communication in organizations	2	6	1	9	20	105
UE43	M4304C	Foreign languages: general, technical and professional language – integration in an international team	1.5			15	15	
	M4305C	Organization and industrial management: management in an organization	1.5		10	20		
Total U	Total UE43					54	35	105
UE44	M4409	Internship	12	12				
	TOTAL SEMESTER 4:			30	36	123	156	315

	COURSE TOTAL:	108	324	709	767	1800
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