Year I, Semester 1 (winter)

100	1, Semester 1 (winter)				~	
No.	Course	Course type	Hours	Credit*	Course credit obligatory for semester completion	ECTS points
A. Ge	eneral education courses					
1.	Etiquette in Public Life	lecture	15	grading	no	1
2.	Social Communication	lecture	15	grading	no	1
3.	Information Technology	lecture	15	grading	***	2
4.	Information Technology	laboratory	15	grading	no	2
B. Ba	asic courses					
5.	Physics	lecture	15	grading		2
6.	Physics	class	15	grading	no	3
7.	Microeconomics, macroeconomics	lecture	30	examination	VAS	5
8.	Microeconomics, macroeconomics	class	15	grading	yes	5
C. Ma	ajor courses					
9.	Management	lecture	30	examination	yes	4
10.	Materials science	lecture	30	grading	no	3
11.	Engineering Design	lecture	30	grading	***	5
12.	Engineering Design	class	15	grading	no	3
13.	Engineering Graphics, Informatics and Computer Aided Engineering	lecture	30	grading	yes	6
14.	Engineering Graphics, Informatics and Computer Aided Engineering	project	30	grading	yes	U
		Total:	300		Total:	30

^{*} all forms of credit are with a grade

Year I, Semester 2 (summer)

	r 1, Semester 2 (summer)				~	1			
No.	Course	Course type	Hours	Credit*	Course credit obligatory for semester completion	ECTS points			
A. Ge	A. General education courses								
1.	Elective course (Business Ethic, Foundations of Sociology)	lecture	30	grading	no	2			
B. Ba	asic courses								
2.	Mathematics, Statistics, Operational Research	lecture	15	examination	no	4			
3.	Mathematics, Statistics, Operational Research	class	30	grading	no	4			
4.	Physics	lecture	15	grading					
5.	Physics	class	15	grading	no	4			
6.	Physics	laboratory	15	grading					
7.	Microeconomics, macroeconomics	lecture	15	examination	VAC	4			
8.	Microeconomics, macroeconomics	class	15	grading	yes	4			
9.	Business Law	lecture	30	examination	no	3			
C. M	ajor courses								
10.	Production and service management	lecture	30	grading	VOS.	2			
11.	Production and service management	laboratory	15	grading	yes	3			
12.	Materials science	lecture	30	grading	m 0	3			
13.	Materials science	laboratory	15	grading	no	3			
14.	Engineering Design	lecture	15	grading	200	4			
15.	Engineering Design	project	30	grading	no	4			
16.	Engineering Graphics, Informatics and Computer Aided Engineering	lecture	15	grading	no	3			
17.	Engineering Graphics, Informatics and Computer Aided Engineering	laboratory	30	grading	110	3			
		Total:	360		Total:	30			

^{*} all forms of credit are with a grade

Year II, Semester 3 (winter)

No.	Course	Course type	Hours	Credit*	Course credit obligatory for semester completion	ECTS points		
A. Ge	eneral education courses							
1.	Foreign language	laboratory	30	grading	no	1		
2.	Fundamentals of Intellectual and Industrial Property Rights	lecture	15	grading	no	1		
B. Ba	asic courses							
3.	Mathematics, Statistics, Operational Research	lecture	15	examination	no	4		
4.	Mathematics, Statistics, Operational Research	class	15	grading	no			
5.	Marketing	lecture	30	grading	yes	3		
6.	Marketing	seminar	15	grading	yes	3		
C. M	C. Major courses							
7.	Raw Materials and Industrial Technology	lecture	15	grading	no	2		
8.	Raw Materials and Industrial Technology	laboratory	30	grading	no	2		
9.	Enterprise Logistics	lecture	30	examination	no	4		
10.	Enterprise Logistics	project	15	grading	ПО	4		
11.	Engineering Design	lecture	30	examination	NO.	5		
12.	Engineering Design	project	30	grading	yes	3		
13.	Production Processes	lecture	15	grading	****	2		
14.	Production Processes	laboratory	15	grading	yes	3		
15.	Metrology I	lecture	15	grading		2		
16.	Metrology I	laboratory	15	grading	no	3		
17.	Engineering Graphics, Informatics and Computer Aided Engineering	lecture	15	grading	no	4		
18.	Engineering Graphics, Informatics and Computer Aided Engineering	laboratory	30	grading	110	'1		
		Total:	375		Total:	30		

^{*} all forms of credit are with a grade

Year II, Semester 4 (summer)

No. Course Course type Loss Credit* Credit* Credit* Course type Loss Credit* Credit* Course type Loss Credit* Credit* Course type Loss Credit* Credit* Credit* Credit* Course type Loss Credit* Loss Credit* Course type Lecture Credit* Course type Lecture Course type Loss Credit* Credit* Credit* Course type Loss Credit* Credit* Course type Loss Course type Loss Credit* Course type Loss Credit* Course type Loss Credit* Course type Loss Course type Loss Course type Loss Course type Loss Credit* Course type Loss Course type Loss Credit* Course type Loss Credit* Course type Loss Credit* Course type Loss Course type Loss Credit* Course type Loss Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Credit* Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Credit* Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Cass Course type Loss Credit* Course type Loss Cass Course type Loss Cass Course type Loss Course type Loss Course type Loss Credit* Course type Loss Credit* Cass Course type Loss Cass Course type Loss Course type Loss C		r 11, Semester 4 (summer)		1		α.	
1. Foreign language laboratory 30 grading no 1 2. Physical Education class 30 grading no 1 3. Principles of business lecture 30 grading no 2 B. Basic courses 4. Mathematics, Statistics, Operational Research laboratory 30 grading no 5 5. Mathematics, Statistics, Operational Research lecture 15 grading no 2 C. Major courses 7. Cost Account for Engineers, Finance and Accountancy lecture 30 grading no 5 8. Finance and Accountancy lecture 30 grading no 5 9. Production Processes lecture 30 grading no 5 10. Production Processes lecture 30 examination yes 4 11. Metrology II lecture 15 grading no 4 12. Metrology II lecture 15 grading no 4 12. Metrology II lecture 15 grading no 4 13. Informatics and Computer Aided lecture 15 grading no 4 14. Informatics and Computer Aided Engineering Graphics, Informatics and Computer Aided Engineering Raw Materials and Industrial Technology lecture 15 grading no 2 16. Raw Materials and Industrial rechnology seminar 15 grading no 2 16. Raw Materials and Industrial Technology seminar 15 grading no 2 17. Raw Materials and Industrial rechnology seminar 15 grading no 2 18. Raw Materials and Industrial Technology seminar 15 grading no 2 19. Raw Materials and Industrial Technology seminar 15 grading no 2 10. Raw Materials and Industrial seminar 15 grading no 2	No.	Course	Course type	Hours	Credit*	obligatory for semester	
2. Physical Education class 30 grading no 1 3. Principles of business lecture 30 grading no 2 B. Basic courses 4. Mathematics, Statistics, Operational Research laboratory 30 grading no 5 Mathematics, Statistics, Operational Research laboratory 30 grading no 2 C. Major courses 7. Cost Account for Engineers, Finance and Accountancy lecture 30 grading no 5 8. Cost Account for Engineers, Finance and Accountancy lecture 30 grading no 5 9. Production Processes laboratory 15 grading yes 4 10. Production Processes laboratory 15 grading no 4 11. Metrology II lecture 15 grading no 4 12. Metrology II laboratory 15 grading no 4 13. Engineering Graphics, Informatics and Computer Aided lecture 15 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading yes 4 Engineering Graphics, Informatics and Computer Aided laboratory 30 grading	A. Ge	eneral education courses					
3. Principles of business lecture 30 grading no 2	1.	Foreign language	laboratory	30	grading	no	1
B. Basic courses 4.	2.	Physical Education	class	30	grading	no	1
4. Mathematics, Statistics, Operational Research lecture 15 grading no 5 5. Mathematics, Statistics, Operational Research laboratory 30 grading no 2 6. Ecology and Environmental Management lecture 15 grading no 2 C. Major courses 7. Cost Account for Engineers, Finance and Accountancy lecture 30 examination no 5 8. Cost Account for Engineers, Finance and Accountancy class 30 grading no 5 9. Production Processes lecture 30 examination yes 4 10. Production Processes laboratory 15 grading no 4 11. Metrology II lecture 15 grading no 4 12. Metrology II laboratory 15 examination 13. Informatics and Computer Aided Engineering lecture 15 examination 14. Informatics and Computer Aided Engineering laboratory 30 grading 15. Raw Materials and Industrial Technology lecture 15 grading 15. Raw Materials and Industrial Techno	3.	Principles of business	lecture	30	grading	no	2
4. Operational Research 5. Mathematics, Statistics, Operational Research 6. Ecology and Environmental Management 7. Cost Account for Engineers, Finance and Accountancy 8. Cost Account for Engineers, Finance and Accountancy 9. Production Processes lecture 30 examination 10. Production Processes laboratory 15 grading 11. Metrology II lecture 15 grading 12. Metrology II laboratory 15 grading 13. Informatics and Computer Aided Engineering Graphics, Informatics and Computer Aided Engineering 14. Informatics and Computer Aided Engineering Graphics, Informatics and Engineering Informatics and Industrial Industrial Eccture Informatics Inform	B. Ba	asic courses					
5. Mathematics, Statistics, Operational Research 6. Ecology and Environmental Management C. Major courses 7. Cost Account for Engineers, Finance and Accountancy 8. Cost Account for Engineers, Finance and Accountancy 9. Production Processes lecture 30 examination 10. Production Processes laboratory 15 grading 11. Metrology II laboratory 15 grading 12. Metrology II laboratory 15 grading 13. Engineering Graphics, Informatics and Computer Aided Engineering Graphics, Informatics and Industrial Technology 16. Raw Materials and Industrial Technology 30 grading 15 grading 16. Raw Materials and Industrial Technology 17. Cost Account for Engineers, lecture 30 examination processes 4 18. Cost Account for Engineers, lecture 30 examination processes 4 19. Examination processes 4 10. Production Processes 1 laboratory 15 grading 15 examination processes 15	4.	Operational Research	lecture	15	grading	no	5
C. Major courses 7. Cost Account for Engineers, Finance and Accountancy 8. Cost Account for Engineers, Finance and Accountancy 9. Production Processes 10. Production Processes 11. Metrology II lecture 12. Metrology II laboratory 13. Informatics and Computer Aided Engineering 14. Informatics and Computer Aided Engineering 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Cost Account for Engineers, Finance and Accountancy 18. Cost Account for Engineers, class 19. examination 10. production Processes 10. examination 11. Metrology II lecture 12. grading 13. Informatics and Computer Aided lecture 14. Informatics and Computer Aided Engineering 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Cost Account for Engineers, lecture 18. examination 19. examination 10. production Processes 10. examination 11. production Processes 12. details and grading 13. grading 14. Informatics and Computer Aided laboratory 15. grading 16. Raw Materials and Industrial Technology 17. production Processes 18. class 30 examination 19. examination 10. production Processes 10. examination 10. production Processes 11. production Processes 12. production Processes 13. grading 14. production Processes 15. grading 16. production Processes 18. class 30 examination 19. production Processes 19. production Processes 10. production Processes 11. production Processes 12. production Processes 13. production Processes 14. production Processes 15. prading 16. production Processes 18. production Processes 18. production Processes 18. production Processes 19. production Processes 10.	5.	Operational Research	laboratory	30	grading	по	3
7. Cost Account for Engineers, Finance and Accountancy 8. Cost Account for Engineers, Finance and Accountancy 9. Production Processes 10. Production Processes 11. Metrology II 12. Metrology II 13. Informatics and Computer Aided Engineering 14. Informatics and Computer Aided Engineering 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Cost Account for Engineers, lecture 18. Cost Account for Engineers, lecture 19. Production Processes 10. Production Processes 10. Production Processes 11. Metrology II 12. Metrology II 13. Informatics and Computer Aided lecture 14. Informatics and Computer Aided Engineering 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Engineers, class and examination lecture 18. Production Processes 19. Production Processes 10. Production Processes 10. Production Processes 11. Metrology II 12. Metrology II 13. Informatics and Computer Aided lecture 14. Informatics and Computer Aided Engineering 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Raw Materials and Industrial Seminar 18. Raw Materials and Industrial Seminar 19. Production Processes 10. Production Processes 10. Production Processes 10. Production Processes 10. Production Processes 11. Production Processes 12. Production Processes 13. Production Processes 14. Production Processes 15. Production Processes 16. Production Processes 18. Production Processes 18. Production Processes 18. Production Processes 18. Production Processes 19. Production Processes 19. Production Processes 10. Production Processes 10. Production Processes 10. Production Processes 10. Production Processes 11. Production Processes 12. Production Processes 13. Production Processes 14. Production Processes 15. Production Processes 16. Production Processes 18. Production Processes 18. Production Processes 18. Production Processes 19. Production Processes 19. Production Processes	6.		lecture	15	grading	no	2
Finance and Accountancy 8. Cost Account for Engineers, Finance and Accountancy 9. Production Processes 10. Production Processes 11. Metrology II 12. Metrology II 13. Informatics and Computer Aided Engineering 14. Informatics and Computer Aided Engineering 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 18. Cost Account for Engineers, class 19. Class 30. grading 15. grading 15. grading 16. Raw Materials and Industrial Technology 17. Class 18. Cost Account for Engineers, class 30. grading 15. grading 16. Taking Materials and Industrial Seminar 17. Seminar 18. Cost Account for Engineers, class 30. grading 15. grading 16. Taking Materials and Industrial Seminar 17. grading 18. Cost Account for Engineers, class 30. grading 15. grading 16. Taking Materials and Industrial Seminar 17. grading 18. Cost Account for Engineers, class 30. grading 18. Examination 4. Examination 4. Examination 4. Examination 4. Examination 5. Examination 4. Examination 4. Examination 5. Examination 6. Examination 9. Production Processes 18. Class 19. Examination 19. Examination 19. Examination 19. Examination 19. Examination 19. Examination 10. Production Processes 10. Examination 10. Production Processes 11. Informatics 12. Examination 13. grading 14. Informatics and Computer Aided 15. grading 16. grading 17. grading 18. Examination 19. Examination 19. Examination 20. Examination 21. Examination 22. Examination 23. Grading 19. Examination 19. Examination 19. Examination 20. Examination 21. Examination 22. Examination 23. Grading 19. Examination 19. Examination 19. Examination 20. Examination 10. Examination 10. Examination 11. Examination 12. Examination 13. Examination 14. Examination 15. Examination 16. Examination 17. Examination 18. Examination 19. Examination	C. Ma	ajor courses					
8. Cost Account for Engineers, Finance and Accountancy 9. Production Processes 10. Production Processes 11. Metrology II 12. Metrology II 13. Informatics and Computer Aided Engineering Engineering Graphics, Informatics and Computer Aided Engineering Engineering Informatics and Computer Aided Engineering Informatics and Industrial Engineering Informatics and Industrial Saw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Seminar Informatics Informati	7.	_	lecture	30	examination		5
10. Production Processes laboratory 15 grading 11. Metrology II lecture 15 grading 12. Metrology II laboratory 15 grading Engineering Graphics, Informatics and Computer Aided Engineering Engineering Graphics, Informatics and Computer Aided laboratory Engineering Graphics, Informatics and Computer Aided Engineering Engineering Engineering Graphics, Informatics and Computer Aided Engineering Engineering 15. Raw Materials and Industrial Technology Raw Materials and Industrial seminar 16. Raw Materials and Industrial Technology Informatics and Industrial seminar Informatics and Industrial seminar and Industrial seminar and Industrial seminar and Industrial semi	8.	=	class	30	grading	по	
10. Production Processes laboratory 15 grading 11. Metrology II lecture 15 grading 12. Metrology II laboratory 15 grading Engineering Graphics, Informatics and Computer Aided Engineering Engineering Graphics, Informatics and Computer Aided laboratory 30 grading Engineering Engineering Engineering Engineering Engineering Raw Materials and Industrial Technology Raw Materials and Industrial Technology Raw Materials and Industrial Seminar 15 grading 16 grading Production Processes Iaboratory Is grading Is grading Is grading Is grading Is grading Is grading	9.	Production Processes	lecture	30	examination	NOC	4
12. Metrology II laboratory 15 grading Engineering Graphics, Informatics and Computer Aided Engineering Engineering Graphics, Informatics and Computer Aided laboratory Engineering Graphics, Informatics and Computer Aided laboratory Engineering Raw Materials and Industrial Technology Raw Materials and Industrial seminar 15 grading 16 Raw Materials and Industrial rechnology 17 grading 18 grading 19 prading 10 prading 10 prading 11 prading 12 prading 13 prading 14 prading 15 prading 16 prading 17 prading 18 prading 19 prading 10 prading 10 prading 10 prading 11 prading 12 prading 13 prading 14 prading 15 prading 16 prading 17 prading 18 prading 19 prading 10 prading 10 prading 10 prading 11 prading 12 prading 13 prading 14 prading 15 prading 16 prading	10.	Production Processes	laboratory	15	grading	yes	
12. Metrology II laboratory 15 grading Engineering Graphics, Informatics and Computer Aided Engineering Engineering Graphics, Informatics and Computer Aided laboratory Engineering Graphics, Informatics and Computer Aided Laboratory Engineering 15. Raw Materials and Industrial Technology Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Raw Materials and Industrial Technology 18. Raw Materials and Industrial Technology 19. Seminar 10. Seminar 10. Seminar 10. Seminar 11. Seminar 12. Seminar 13. Seminar 14. Informatics and Industrial grading 15. Seminar 16. Seminar 17. Seminar 18. Seminar 19. Seminar 19. Seminar 10. Seminar 10. Seminar 10. Seminar 11. Seminar 12. Seminar 13. Seminar 14. Seminar 15. Seminar 16. Seminar 17. Seminar 18. Seminar 19. Seminar 19. Seminar 10. Seminar 10. Seminar 10. Seminar 11. Seminar 12. Seminar 13. Seminar 14. Seminar 15. Seminar 16. Seminar 17. Seminar 18. Seminar 19. Seminar 19. Seminar 19. Seminar 10. S	11.	Metrology II	lecture	15	grading	no	4
13. Informatics and Computer Aided Engineering Engineering Graphics, 14. Informatics and Computer Aided Engineering Raw Materials and Industrial Technology 15. Raw Materials and Industrial Technology 16. Raw Materials and Industrial Technology 17. Raw Materials and Industrial Seminar 18. Raw Materials and Industrial Seminar 19. Raw Materials and Industrial Seminar 10. Raw Materials and Industrial Seminar 11. Raw Materials and Industrial Seminar 12. Raw Materials and Industrial Seminar 13. Raw Materials and Industrial Seminar 14. Informatics and Computer Aided Industrial Industrial Seminar 15. Raw Materials and Industrial Seminar 16. Raw Materials and Industrial Seminar 17. Raw Materials and Industrial Seminar 18. Raw Materials and Industrial Seminar 19. Raw Materials and Industrial Seminar	12.	Metrology II	laboratory	15	grading	ПО	4
14. Informatics and Computer Aided laboratory 30 grading 15. Raw Materials and Industrial lecture 15 grading 16. Raw Materials and Industrial seminar 15 grading 15 grading 16 Raw Materials and Industrial seminar 15 grading 16 Raw Materials and Industrial seminar 15 grading 16 Raw Materials and Industrial seminar 16 grading 17 grading 18 Grad	13.	Informatics and Computer Aided Engineering	lecture	15	examination	VOS.	4
Technology 16. Raw Materials and Industrial Technology 17. Technology 18. Technology 18. Technology 19. Technology 19. Technology 10. Technology 10. Technology 11. Technology 12. Technology 13. Technology 14. Technology 15. Technology 16. Technology 16. Technology 17. Technology 18. Technology 19. Technology 19. Technology 19. Technology 10. Technology	14.	Informatics and Computer Aided	laboratory	30	grading	yes	4
16. Raw Materials and Industrial seminar 15 grading	15.	Raw Materials and Industrial Technology	lecture	15	grading	no	2
Total: 360 Total: 30	16.		seminar	15	grading	110	2
						Total:	30

^{*} all forms of credit are with a grade

Year III, Semester 5 (winter)

No.	Course	Course type	Hours	Credit*	Course credit obligatory for semester completion	ECTS points		
A. Ge	A. General education courses							
1.	Foreign language	laboratory	30	grading	no	1		
2.	Physical Education	class	30	grading	no	1		
B. Ba	asic courses							
3.	Mathematics, Statistics, Operational Research	lecture	30	grading	no	4		
4.	Mathematics, Statistics, Operational Research	class	15	grading	no	4		
5.	Ecology and Environmental Management	lecture	15	grading	no	2		
6.	Ecology and Environmental Management	seminar	15	grading	ПО			
C. M	ajor courses							
7.	Cost Account for Engineers, Finance and Accountancy	lecture	30	grading	no	4		
8.	Cost Account for Engineers, Finance and Accountancy	class	15	grading				
9.	Quality and Safety Management	lecture	30	examination		5		
10.	Quality and Safety Management	class	30	grading	yes			
11.	Production Processes Automation and Robotics	lecture	30	grading				
12.	Production Processes Automation and Robotics	laboratory	15	grading	no	5		
13.	Production Processes Automation and Robotics	project	15	grading				
D. Sp	pecialization courses							
14.	Designing Technological Processes for Typical Machine Parts	lecture	15	grading		4		
15.	Designing Technological Processes for Typical Machine Parts	project	30	grading	no	4		
16.	Mechatronics in Production Engineering	lecture	30	examination	yes	А		
17.	Mechatronics in Production Engineering	seminar	15	grading		4		
Total:			390		Total:	30		

^{*} all forms of credit are with a grade

Year III, Semester 6 (summer)

No.	Course	Course type	Hours	Credit*	Course credit obligatory	ECTS			
110.	Course	Course type	110413	Crear	for semester completion	points			
A. Ge	A. General education courses								
1.	Foreign language	laboratory	30	examination	yes	2			
D. Sp	pecialization courses								
2.	Programming of CNC Machines	lecture	15	grading	***	2			
3.	Programming of CNC Machines	laboratory	30	grading	no	2			
4.	Technical and Organizational Preparation of Production	lecture	15	grading	no	2			
5.	Technical and Organizational Preparation of Production	laboratory	30	grading	no	2			
6.	Designing Mechatronic Devices and Systems	lecture	30	examination					
7.	Designing Mechatronic Devices and Systems	laboratory	15	grading	yes	5			
8.	Designing Mechatronic Devices and Systems	project	15	grading					
9.	Computer Aided Manufacturing CAM	lecture	15	grading	no	2			
10.	Computer Aided Manufacturing CAM	laboratory	30	grading	no	3			
11.	Fundamentals of Automation and Robotics	lecture	15	grading	20	3			
12.	Fundamentals of Automation and Robotics	laboratory	15	grading	no	3			
13.	Drives and Hydraulic & Pneumatic Control in Mechatronics	lecture	30	examination	VOS	5			
14.	Drives and Hydraulic & Pneumatic Control in Mechatronics	laboratory	30	grading	yes	3			
15.	Thesis	project	45	grading	yes	4			
16.	Diploma Seminar	seminar	30	grading	yes	4			
	Total:				Total:	30			

^{*} all forms of credit are with a grade

Year IV, Semester 7 (winter)

No.	Course	Course type	Hours	Credit*	Course credit obligatory for semester completion	ECTS points
D. Sp	pecialization courses					
1.	Sensors, Actuators and Servo- Drives	lecture	30	grading	Vos	2
2.	Sensors, Actuators and Servo- Drives	laboratory	15	grading	yes	2
3.	Controllers in Industrial Networks - PLC	lecture	30	examination	*****	3
4.	Controllers in Industrial Networks - PLC	laboratory	30	grading	yes	3
5.	Exploitation of Mechatronic Devices	lecture	15	grading		2
6.	Exploitation of Mechatronic Devices	seminar	15	grading	yes	2
7.	Operational Control in Production Systems	lecture	30	examination	*****	3
8.	Operational Control in Production Systems	laboratory	30	grading	yes	3
9.	Diploma Seminar	seminar	30	grading	yes	4
10.	Diploma Thesis	project	300	grading	yes	10
11.	Professional Practice		6 weeks		yes	6
	Total:				Total:	30

^{*} all forms of credit are with a grade