

**Full time training
Curriculum "F"**

with weekly hours: lectures (lc), practices (pr), laboratory (lb); with requirements (re); with credits (cr)

Nr	Subject code	Subject name	C.	Week-ly hours	Credit	Semesters																				Prerequisites																													
						1.					2.					3.					4.					Nr	Subject code	C.	Nr	Subject code	C.																								
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr																														
Free optional subjects total:					4	6						2					3					2					3																												
36.		Free optional subject 1	(4)	2	3						2	0	0	a	3						2					0					0					a					3														
37.		Free optional subject 2	(4)	2	3																2					0					0					a					3														
Degree thesis subjects total:					30	30											5					5					10					10					10					20													
38.	KMDDP5EMNF KADDP5EMNF KHDDP5EMNF	Degree thesis I.		10	10																0					5					5					a					10														
39.	KMDDP6EMNF KADDP6EMNF KHDDP6EMNF	Degree thesis II.		20	20																0					10					10					a					20					38. KMDDP5EMNF 38. KADDP5EMNF 38. KHDDP5EMNF									
Total:					112	120	14	7	10						30	14	2	11				29	10	8	8				30	6	11	11				31																			
Weekly hours total:						31					27					26					28																																		
Number of Examinations (e):						5					3					4					0																																		
Number of Assignments (a):						3					4					2					3																																		
Number of Three-stage grades (t):						1					1					0					0																																		

The training total hours:	1 568 h
Lectures from this:	616 h 39,29%
practices, laboratory:	952 h 60,71%

Comment(s):

Courses signed by character # can be started paralelly, if necessary.

- (1) Entry requirement for the subject: obtaining the signature of the prerequisite subject. Entry requirement for the subject's examination: completion of the prerequisite subject.
- (2) The semester of the placement of the given subject is determined by the institution depending on the number of students.
- (3) The subject is taught in an e-learning or blended learning system, and the detailed half-year requirement of the subject is the guide.
- (4) List of obligatory optional professional subjects and free optional subjects are included on the next table.
- (5) All subjects of the chosen subject group are required fulfilled.

The condition for admission to the final exam - in addition to obtaining the above credit value - is the completion of an obligatory external internship during the training, the minimum total time of which is: 4 weeks

Nr	Subject code	Subject name	C.	Week-ly hours	Credit	Semesters																				Prerequisites														
						1.					2.					3.					4.					Nr	Subject code	C.	Nr	Subject code	C.									
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr															
Obligatory optional professional subjects																																								
40.	KMWMG5EMNF	Mechatronics knowledge for mechanical engineers		2	3	2	0	0	a	3																														
41.	KAWMV5EMNF	Mechatronics knowledge for electrical engineers		2	3	2	0	0	a	3																														
Recommended free optional subjects				(9)																																				
42.	KEVMP5EMNF	Microcontroller programming in practice		2	3						2	0	0	a	3																									
43.	KMVM15EMNF	Artificial intelligence		2	3											2					0					0					a					3				

Comment(s):

(9) In addition to the items listed here, additional optional subjects can be found in the Neptun system.

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Final Exam subjects:

Production systems specialisation

Subject code	Subject name
KMXAR5EMNF	Material handling systems
KMXGT5EMNF	Production technology
KMXUE5EMNF	Scheduling theory, statistics
KMXDK5EMNF	Diagnostics and risk analysis
KMXGR5EMNF	Production systems

Vehicle mechatronics specialisation

Subject code	Subject name
KAXKZ5EMNF	Automated transport systems
KAXJM5EMNF	Vehicle mechatronics
KAXVH5EMNF	Electric and hybrid drivetrain systems
KAXAJ5EMNF	Autonomous vehicles
KAXJH5EMNF	Automotive networks and communication systems

UAS and drone systems specialisation

Subject code	Subject name
KHXFB5EMNF	Onboard interceptors and sensors
KHXFR5EMNF	Onboard embedded system technology
KHXRA5EMNF	Flight control algorithms
KHXFS5EMNF	Ground segment system technology
KHXUA5EMNF	UAS data transmission