

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	Mj	Weekl y hours	Credit	Semesters																				Prerequisites					
						1.					2.					3.					4.										
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	Nr	Subject code	Mj	Nr	Subject code	Mj
		Natural science knowledge total:		23	22	6	7			11	7	2	1		11																
1.	KTXAM1EMNF	Advanced mathematics		4	3	2	2	0	e	3																					
2.	KTXEF1EMNF	Electrophysics		4	3	2	2	0	a	3																					
3.	KAXEV1EMNF	Theoretical electricity		4	4	2	2	0	e	4																					
4.	OTTES11MNF	Physical training I.		1	1	0	1	0	t	1																					
5.	OTTES12MNF	Physical training II.		1	1						0	1	0	t	1											4.	OTTES11MNF				
6.	KEXAT1EMNF	Material sciences		3	3						3	0	0	a	3																
7.	KEXJF1EMNF	Signal analysis and signal processing		3	3						2	0	1	e	3																
8.	KVXEP1EMNF	Modelling of systems with distributed parameters		3	4						2	1	0	e	4																
		Economic and humanities knowledge total:		8	10	2	2			5	2	2			5																
9.	KMXMM1EMNF	Engineering management		4	5						2	2	0	e	5																
10.	KMXGT1EMNF	Business economics		4	5	2	2	0	e	5																					
		Electronical engineering professional knowledge total:		22	22	4	2	5		11	4		7		11																
11.	KIXBA1EMNF	Architectures of embedded systems		4	4	2	0	2	e	4																					
12.	KVXEN1EMNF	Energy networks		4	4	2	2	0	a	4																					
13.	KEXIT1EMNF	Basics of infocommunication technologies		4	4						2	0	2	e	4																
14.	KAXIE1EMNF	Control theory		4	4						2	0	2	a	4																
15.	KVPPM1EMNF	Project I.		3	3	0	0	3	a	3																					
16.	KVPPM2EMNF	Project II.		3	3						0	0	3	a	3											15.	KVPPM1HMNF				
		Subjects of optional specialisation total:		36	30											11		7		15	11		7		15						
		Automatics specialisation	(5)	36	30											11		7		15	11		7		15						
17.	KAXAR1EMNF	System components of automatics		5	4											3	0	2	e	4						14.	KAXIE1HMNF				
18.	KAXRB1EMNF	Robotization		5	4											3	0	2	e	4						14.	KAXIE1HMNF				
19.	KAXVE1EMNF	Electric and hybrid drivetrain systems		5	4											3	0	2	e	4						3.	KAXEV1HMNF				
20.	KAXES1EMNF	Electronic converters		5	4																3	0	2	e	4	3.	KAXEV1HMNF				
21.	KAXEA1EMNF	Intelligent building automation and BIM systems		5	4																3	0	2	e	4						
22.	KAXJE1EMNF	Vehicle electronics		5	4																3	0	2	e	4						
23.		Obligatory optional professional subject 1	(4)	3	3											2	0	1	e	3											
24.		Obligatory optional professional subject 2	(4)	3	3																2	0	1	e	3						
		Embedded systems specialisation	(5)	36	30											11		7		15					15						
25.	KIXBO1EMNF	Embedded- and operating systems		5	4											3	0	2	e	4						11.	KIXBA1HMNF				
26.	KMXBR1EMNF	Security-critical systems		5	4											3	0	2	e	4											
27.	KMXSF1EMNF	Software development and testing		5	4											3	0	2	e	4											
28.	KMXAR1EMNF	Security of autonomous systems		5	4																0	0	0	e	4						
29.	KMXOP1EMNF	Object-oriented programming		5	4																0	0	0	e	4						
30.	KIXI41EMNF	Industry 4.0 technologies		5	4																0	0	0	e	4	6.	KEXAT1HMNF				
31.		Obligatory optional professional subject 1	(4)	3	3											2	0	1	e	3											
32.		Obligatory optional professional subject 2	(4)	3	3																0	0	0	e	3						

[illegible]

(5) In addition to the subjects listed here, further optional subjects can be found in the neptan system.

Nr		Subject name	Mj	Weekl y hours	Credit	Semesters															
						2.					3.					4.					
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	
		Kooperatív képzés tantárgyai összesen:		9	45	3					10	3				15	3				20
	KAOSG1EMNF	Practice in profession I.	(11)	0	5																
	KMOSG1EMNF																				
	KVOSG1EMNF																				
	KEOSG1EMNF																				
	KAOSG2EMNF	Practice in profession II.	(11)	0	10																
	KMOSG2EMNF																				
	KVOSG2EMNF																				
	KEOSG2EMNF																				
	KAOSG3EMNF	Practice in profession III.	(11)	0	15																
	KMOSG3EMNF																				
	KVOSG3EMNF																				
	KEOSG3EMNF																				
		Optional professional subject I.		3	5	3	0	0	e	5											
		Optional professional subject II.		3	5						3	0	0	e	5						
		Optional professional subject III.		3	5											3	0	0	e	5	

1. A minimum of 30 credits must be completed before starting a co-operative course.

(11) The number of hours per week of the traineeship is set out in the cooperative agreement.

Final Exam subjects: