Electrical Engineering BSc English language training

Valid:
from 2019/2020 school year

Full time training
Curriculum "É"

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.					5.					6.					7.										
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	Nr	Subject code	C.	Nr	Subject code	C.
	Basics of Natural Science total:			32	40	5	7			15	5	3	1		10	2	1			4	6	1	1		11																					
1.	KEXTT5ABNE	Basics of natural science		3	4	0	3	0	a	4																																				
2.	KEXMA1ABNE NMXAN1ABNE	Mathematics I.		6	6	3	3	0	e	6																																				
3.	KEXMA2ABNE	Mathematics II.		6	6						3	3	0	e	6																										2.	KEXMA1ABNE	(1)		
4.	KMXIA5ABNE	Informatics I.		3	5	2	1	0	a	5																																				
5.	KHXIA6ABNE	Informatics II.		3	4																2	0	1	a	4																25.	KMXPR6ABNE			
6.	KEEVR5ABNE	Materials science for engineers		3	4						2	0	1	e	4																														
7.	KVXFI5ABNE	Physics I.		3	4											2	1	0	e	4																					3.	KEXMA2ABNE			
8.	KVXFI6ABNE	Physics II.		3	4																2	1	0	e	4																7.	KVXFI5ABNE			
9.	KEEMI5ABNE	Basics of safety technology, environment protection and quality		2	3																2	0	0	a	3																				
	Economical and Human Knowledge total:			12	14																					2	2			5	4	2			6	2				3					
10.	GVXME5EBNE	Basics of Management		2	3																					1	1	0	a	3																
11.	GGXKG6EBNE	Microeconomics		2	2																					1	1	0	a	2																
12.	GGXKG5EBNE	Macroeconomics		2	2																										2	0	0	a	2											
13.	GSXVG5EBNE	Enterprise Economics		4	4																										2	2	0	e	4											
14.	GGXJI5EBNE	Law		2	3																															2	0	0	a	3					
	Basics of Professional of Electrical Engineering total:			71	80	8	4	1		15	9	4	5		20	12		9		26	10	2	7		19																					
15.	KEXMD5ABNE	Technical documentation		2	2	2	0	0	a	2																																				
16.	KEXAM5ABNE	General engineering studies I.		2	3	0	1	1	a	3																																				
17.	KEXAM6ABNE	General engineering studies II.		1	2						0	1	0	a	2																										16.	KEXAM5ABNE			
18.	KAXDT5ABNE	Digital technics I.		3	4	3	0	0	e	4																																				
19.	KAXDT6ABNE	Digital technics II.		4	4						2	0	2	e	4																										18.	KAXDT5ABNE			
20.	KHXVT5ABNE	Electricity I.		6	6	3	3	0	e	6																																				
21.	KHXVT6ABNE	Electricity II.		7	6						3	3	1	e	6																										2.	KEXMA1ABNE		20.	KHXVT5ABNE
22.	KMXMT5ABNE	Measurements I.		3	4						2	0	1	a	4																										20.	KHXVT5ABNE			
23.	KMXMT6ABNE	Measurements II.		4	4											2	0	2	a	4																					22.	KMXMT5ABNE			
24.	KMXPR5ABNE	Programming I.		3	4						2	0	1	a	4																										4.	KMXIA5ABNE			
25.	KMXPR6ABNE	Programming II.		4	5											2	0	2	a	5																					24.	KMXPR5ABNE			
26.	KAXAU5ABNE	Automation I.		3	4											2	0	1	e	4																					18.	KAXDT5ABNE			
27.	KAXAU6ABNE	Automation II.		4	4																2	0	2	e	4																26.	KAXAU5ABNE			
28.	KEXEL5ABNE	Electronics I.		4	4											2	0	2	e	4																					20.	KHXVT5ABNE			
29.	KEXEL6ABNE	Electronics II.		3	4																2	0	1	e	4																28.	KEXEL5ABNE			
30.	KHXHI5ABNE	Communication technics I.	(2)	3	4											2	0	1	e	4																					21.	KHXVT6ABNE	(1)		
31.	KHXHI6ABNE	Communication technics II.	(2)	4	4																2	1	1	a	4																30.	KHXHI5ABNE	(1)		
32.	KVXVE5ABNE	Electrical energetics I.	(2)	3	5											2	0	1	e	5																					3.	KEXMA2ABNE		21.	KHXVT6ABNE
33.	KVXVE6ABNE	Electrical energetics II.	(2)	4	3																2	1	1	e	3																32.	KVXVE5ABNE			
34.	KEXET5ABNE	Electronics technology	(2)	4	4																2	0	2	e	4																6.	KEEVR5ABNE			

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						1.					2.					3.					4.					5.					6.					7.									
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	Nr	Subject code	C.	Nr	Subject code	C.
	Optional Specialisation of Subjects total:			42	51																					7		9		20	8		8		20	7		3		11	3.	KEXMA2ABNE		21.	KHXVT6ABNE	
	Communication engineering specialisation		(5)	42	51																					7		9		20	8		8		20	7		3		11						
35.	KHXAT5ABNE	Circuit design		4	5																					2	0	2	e	5											29.	KEXEL6ABNE	(1)			
36.	KHXHE5ABNE	Communication theory		4	5																					2	0	2	e	5											31.	KHXHI6ABNE				
37.	KHXHI7ABNE	Communication technics III.		6	7																										3	0	3	e	7						35.	KHXAT5ABNE	(1)	36.	KHXHE5ABNE	(1)
38.	KHXIH5ABNE	Design and measurement of infocommunication networks		2	3																										2	0	0	e	3						30.	KHXHI5ABNE				
39.	KHXIR5ABNE	Operation and security of informatics systems		4	5																															4	0	0	e	5	5.	KHXIA6ABNE				
40.	KHPPM5ABNE	Project I.		2	4																					0	0	2	a	4																
41.	KHPPM6ABNE	Project II.		2	4																										0	0	2	a	4						40.	KHPPM5ABNE				
42.		Obligatory optional professional subject 1	(4)	3	3																					2	0	1	e	3																
43.		Obligatory optional professional subject 2	(4)	3	3																					1	0	2	e	3																
44.		Obligatory optional professional subject 3	(4)	3	3																										2	0	1	e	3											
45.		Obligatory optional professional subject 4	(4)	3	3																										1	0	2	e	3											
46.		Obligatory optional professional subject 5	(4)	3	3																															2	0	1	e	3						
47.		Obligatory optional professional subject 6	(4)	3	3																															1	0	2	e	3						
	Instrumentation and automation specialisation		(5)	42	51																					7		9		20	7		9		20	5	2	3		11						
48.	KMXBR5ABNE	Embedded systems		4	5																					2	0	2	e	5											19.	KAXDT6ABNE		29.	KEXEL6ABNE	
49.	KMXMA5ABNE	Instrumentation-automation I.		4	5																					2	0	2	e	5											19.	KAXDT6ABNE		29.	KEXEL6ABNE	
50.	KMXMA6ABNE	Instrumentation-automation II.		4	5																										2	0	2	e	5						23.	KMXMT6ABNE				
51.	KMXJK5ABNE	Signal processing I.		4	5																										2	0	2	e	5						23.	KMXMT6ABNE				
52.	KMXJK6ABNE	Signal processing II.		4	5																															2	2	0	e	5	51.	KMXJK5ABNE				
53.	KMPPM5ABNE	Project I.		2	4																					0	0	2	a	4																
54.	KMPPM6ABNE	Project II.		2	4																										0	0	2	a	4						53.	KMPPM5ABNE				
55.		Obligatory optional professional subject 1	(4)	3	3																					2	0	1	e	3																
56.		Obligatory optional professional subject 2	(4)	3	3																					1	0	2	e	3																
57.		Obligatory optional professional subject 3	(4)	3	3																										2	0	1	e	3											
58.		Obligatory optional professional subject 4	(4)	3	3																										1	0	2	e	3											
59.		Obligatory optional professional subject 5	(4)	3	3																															2	0	1	e	3						
60.		Obligatory optional professional subject 6	(4)	3	3																															1	0	2	e	3						
	Free Optional Subjects total:		(4)	6	10																					2				3	2				3	2				4						
61.		Free optional subject 1		2	3																					2	0	0	a	3																
62.		Free optional subject 2		2	3																										2	0	0	a	3											
63.		Free optional subject 3		2	4																															2	0	0	a	4						
	Subject of Thesis total:			6	15																																	6		15						
64.	KHDSD1ABNE KMDSD1ABNE	Thesis		6	15																															0	0	6	s	15	41. 54.	KHPPM6ABNE KMPPM6ABNE				
		Total:		169	210	13	11	1		30	14	7	6		30	14	1	9		30	16	3	8		30	11	2	9		28	14	2	8		29	11	0	9		33						
		Weekly hours total:				25					27					24					27					22					24					20										
		Number of Examinations (e):						3					4					5					5					4					5					3								
		Number of Assignments (a):						4					3					2					3					4					3					2								
		Number of Signatures (s):						0					0					0					0					0					0					1								

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Nr	Subject code	Subject name	C.	Week-ly hours	Credit	Semesters																																				Prerequisites				
						1.					2.					3.					4.					5.					6.					7.										
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	Nr	Subject code	C.	Nr	Subject code	C.
	Criterion Requirement Subjects total:		(6)																																											
65.	KDIPT1ABNE	Patronage I.		1	0	1	0	0	s	0																															16.	KEXAM5ABNE	#			
66.	KDIPT2ABNE	Patronage II.		1	0						1	0	0	s	0																										17.	KEXAM6ABNE	#			
67.	GTSTESTNEV1	Physical education I.		2	0											0	2	0	s	0																										
68.	GTSTESTNEV2	Physical education II.		2	0																					0	2	0	s	0											67.	GTSTESTNEV1				

Comments:
Courses signed by character # can be started paralelly, if necessary.
(1) Sign of course makes necessary to fulfill prerequisites.
(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.
(6) The criterion requirement is a mandatory requirement in the curriculum that does not have a credit point. (TVSZ. 35. § (4))

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: 6 weeks

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Nr	Subject code	Subject name C.	Weekly hours	Credit	Semesters																																				Prerequisites			
					1.					2.					3.					4.					5.					6.					7.									
					lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	Nr	Subject code C.	Nr	Subject code C.
	Obligatory Optional Professional Subjects 1-2																																											
69.	KMWAG5ABNE	Automatic manufacturing systems I.	3	3																					2	0	1	e	3															
70.	KMWER5ABNE	Electronic test and measurement systems I.	3	3																					2	0	1	e	3															
71.	KMWMR5ABNE	Mechatronic systems	3	3																					1	0	2	e	3															
72.	KMWEM5ABNE	Methods of electronic testing	3	3																					1	0	2	e	3															
73.	KMWSF5ABNE	Process control I.	3	3																					2	0	1	e	3															
74.	KMWPL5ABNE	Programmable logic controllers I.	3	3																					1	0	2	e	3															
75.	KMWFB5ABNE	Surveillance embedded systems	3	3																					1	0	2	e	3															
76.	KMWFV5ABNE	Surveillance informatics and electronic security systems I.	3	3																					2	0	1	e	3															
	Obligatory Optional Professional Subjects 3-4																																											
77.	KMWAG6ABNE	Automatic manufacturing systems II.	3	3																										2	0	1	e	3										
78.	KMWER6ABNE	Electronic test and measurement systems II.	3	3																										1	0	2	e	3										
79.	KMWIB5ABNE	Integrated embedded systems	3	3																										1	0	2	e	3										
80.	KMWOM5ABNE	Medical instruments	3	3																										2	0	1	e	3										
81.	KMWSF6ABNE	Process control II.	3	3																										2	0	1	e	3										
82.	KMWPL6ABNE	Programmable logic controllers II.	3	3																										1	0	2	e	3										
83.	KMWBS5ABNE	Security-critical software development	3	3																										1	0	2	e	3										
84.	KMWFV6ABNE	Surveillance informatics and electronic security systems II.	3	3																										2	0	1	e	3										
	Obligatory Optional Professional Subjects 5-6																																											
85.	KMWER7ABNE	Circuits for electronic test and measurement systems	3	3																															2	0	1	e	3					
86.	KMWIR5ABNE	Control systems	3	3																															2	0	1	e	3					
87.	KMWIF5ABNE	Design of integrated systems	3	3																															2	0	1	e	3					
88.	KMWLK5ABNE	Facility and utility automation	3	3																															1	0	2	e	3					
89.	KMWKO5ABNE	Imaging medical technology systems	3	3																															1	0	2	e	3					
90.	KMWIN5ABNE	Information systems	3	3																															2	0	1	e	3					
91.	KMWBF5ABNE	Security-critical surveillance systems	3	3																															1	0	2	e	3					
92.	KMWJF5ABNE	Vehicle onboard systems	3	3																															1	0	2	e	3					
	Recommended Free Optional Subjects (7)																																											
93.	KEVVI5ABNE	Fundamentals of lighting technology	2	3																					2	0	0	a	3															
94.	KMVMO1ABNE	Metrology	2	3																					2	0	0	a	3															
95.	KHVMT1ABNE	Media technology	2	3																										2	0	0	a	3										
96.	KHVAV1ABNE	Data and information security	2	4																															2	0	0	a	4					
97.	KHVMK1ABNE	Mobile communication	2	4																															2	0	0	a	4					
98.	KHVMH1ABNE	Mobile networks	2	4																															2	0	0	a	4					
99.	KMVOM1ABNE	Object oriented methodology	2	4																															2	0	0	a	4					
100.	KMVRO1ABNE	Real-time operating systems	2	4																															2	0	0	a	4					

Comments: (7) In addition to the items listed here, additional optional subjects can be found in the Neptun system.

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						5.					6.					7.					8.					9.					
						lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr	lc	pr	lb	re	cr
	Cooperative Education total:			18	100					5	3				15	3				20	6				30	6				30
	KHOSG1ABNE KMOSG1ABNE	Practice in profession I.	(8)		5				a	5																				
	KHOSG2ABNE KMOSG2ABNE	Practice in profession II.	(8)		10									a	10															
	KHOSG3ABNE KMOSG3ABNE	Practice in profession III.	(8)		15														a	15										
	KHOSG4ABNE KMOSG4ABNE	Practice in profession IV.	(8)		20																			a	20					
	KHOSG5ABNE KMOSG5ABNE	Practice in profession V.	(8)		20																								a	20
		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					
		Optional professional subject IV.		3	5																3	0	0	e	5					
		Optional professional subject V.		3	5																					3	0	0	e	5
		Optional professional subject VI.		3	5																					3	0	0	e	5

(8) Weekly hours of practice in profession is given by the cooperative contract.

Conditions of Cooperative Education at Electrical Engineering BSc English language training:

1. Students have to fulfill minimum 120 credits before starting Cooperative Education.

2. Courses of Cooperative Education are fixed by Council of the Faculty year by year.

3. Based on the decision of the Faculty, students can participate in 1-5 semesters of Cooperative Education during their studies.

Final Exam subjects:

Subject code	Subject name
Exam 1 subject: Aggregate from the specalisation's obligatory professional subjects.	
Exam 2 subject: Aggregate from the specalisation's obligatory optional professional subjects.	