## KHAZAR UNIVERSITY

## $Curriculum\ (M-911\ - Electronics\ and\ automation\ )$

## 1st Year

CODE	Fall Semester	KU	ECTS	Note
ETR 500	Power electronics devices	4	8	MR
ETR 510	Optoelectronic devices transmitting and processing information	4	8	MR
ETR 520	Microcontroller electronic devices and systems	4	8	MR
ETR 530/540	Digital Communications/Semiconductor Devices and Technology	4	8	ME
	Credit	16	32	

CODE	Spring Semester	<u>KU</u>	ECTS	Note
ETR 555	Electromagnetic Field Theory	3	6	MR
ETR 560/565	Sensor devices/Enegy conversion	3	6	ME
ETR 570	Industrial automation/automated design of electronic devices	4	8	MR
ETR 590/	Wireless and mobile communication system/Electronic communication systems and networks	3	6	ME
	Credit	13	26	

2nd Year

CODE	Fall Semester	KU	ECTS	Note	CODE	Spring Semester	<u>KU</u>	ECTS	Note
ETR 605	Simulation of electronic devices and circuits	4	8	MR	ETR 700	Preparation and defense of master's thesis	12	24	
ETR615	Digital Signal Processing	4	8	MR	ETR 650	Modern control system	4	8	
	Robotics/Electroacoustic and acoustoelectronic devices	3	6	ME					
	Research methods (Electronics, telecommunications and radio engineering)	4	8	MR					
		15	30			Credit	16	32	

			**Major Electives List:	KU	ECTS	Semestr
			Semiconductor Devices and Technology	3	6	I
			Digital Communications	3	6	I
			Wireless and mobile communication system	4	8	П
			Electronic communication systems and networks	4	8	II
			Sensor devices	3	6	II
			Enegy conversion	3	6	II
			Industrial automation	4	8	II
			Automated design of electronic devices	4	8	II
			Robotics	3	6	III
		1	Electroacoustic and acoustoelectronic devices	3	8	III
		1				
		1				
		1				
		1		KU	ECTS	
			Major Courses	48	96	
			Preparation and defense of master's thesis	12	24	
			Total	60	120	