

**KHAZAR UNIVERSITY**

Curriculum (M-914 - Electronic devices )

**1st Year**

Fall Semester					Spring Semester				
CODE		KU	ECTS	Note	CODE		KU	ECTS	Note
ETR 510	Optoelectronic devices transmitting and processing information	4	8	MR	ETR 555	Electromagnetic Field Theory	3	6	MR
ETR 500	Power electronics devices	4	8	MR	ETR 515/525	Microwaves and antenna theory/Converters technique	3	6	ME
ETR 520	Microcontroller electronic devices and systems	4	8	MR	ETR 540/550	Optoelectronic Devices/Manufacturing technology of electronic devices	3	6	ME
ETR 530/545	Digital Communications/Semiconductor Devices and Technology	4	8	ME		Wireless and mobile communication system/Electronic communication systems and networks	3	6	ME
	<b>Credit</b>	<b>16</b>	<b>32</b>			<b>Credit</b>	<b>12</b>	<b>24</b>	

**2nd Year**

Fall Semester					Spring Semester				
CODE		KU	ECTS	Note	CODE		KU	ECTS	Note
ETR 660	Microsystems and nanoelectronics/High frequency electronic devices	4	8	ME	ETR 700	Preparation and defense of master's thesis	12	24	
ETR 615	Digital Signal Processing	4	8	MR	ETR 680	Industrial Electronics	4	8	
ETR 605	Simulation of electronic devices and circuits	4	8	MR					
ETR 645	Research methods (Electronics, telecommunications and radio engineering)	4	8	MR					
	<b>Credit</b>	<b>16</b>	<b>32</b>			<b>Credit</b>	<b>16</b>	<b>32</b>	

	KU	ECTS	Semestr
<b>**Major Electives List:</b>			
Semiconductor Devices and Technology	3	6	I
Digital Communications	3	6	I
Wireless and mobile communication system	4	8	II
Electronic communication systems and networks	4	8	II
Advanced antenna theory	3	6	II
Converters technique	3	6	II
Optoelectronic Devices	3	6	II
Manufacturing technology of electronic devices	3	6	II
Microsystems and nanoelectronics	4	8	III
High frequency electronic devices	4	8	III
	<b>KU</b>	<b>ECTS</b>	
<b>Major Courses</b>	<b>48</b>	<b>96</b>	
<b>Preparation and defense of master's thesis</b>	<b>12</b>	<b>24</b>	
<b>Total</b>	<b>60</b>	<b>120</b>	