

# KHAZAR UNIVERSITY

## Electrical and electronics engineering B.S. Program

### 1st Year

CODE	Fall Semester	KU	ECTS
AZLL 101	Azerbaijan Language	3	6
MATH 101	Calculus I	3	6
PHSC 150	Physics	3	6
ENGL 101	English Foundations I	4	8
	Social Sciences**	3	6
	<b>Credit</b>	<b>16</b>	<b>32</b>

CODE	Spring Semester	KU	ECTS
CHEM 111	Chemistry	3	6
MATH 102	Calculus II	3	6
PHSC 220	Applied Physics	3	6
ENGL 102	English Foundation II	4	8
AZC 202	Azerbaijan Culture	2	4
AZH 150	Azerbaijan History	3	6
	<b>Credit</b>	<b>18</b>	<b>36</b>

### 2nd Year

CODE	Fall Semester	KU	ECTS
ETR 220	Fundamentals of electrical engineering	4	8
ENGL 216	ESP Electronics Engineering	3	6
CMS 115	Computer Application in Engineering	3	6
ENGR 205	Technical mechanics	3	6
MATH 235	Applied Linear Algebra	3	6
	Elective (major)***	3	6
	<b>Credit</b>	<b>19</b>	<b>38</b>

CODE	Spring Semester	KU	ECTS
ETR250	Materials of electrical and electronic equipment	3	6
	Elective (major)***	4	8
	Social Sciences**	3	6
ETR 232	Analog and digital electronics	3	6
ETR 270	Electrical Measurements and Methods	3	6
	<b>Credit</b>	<b>16</b>	<b>32</b>

### 3rd Year

CODE	Fall Semester	KU	ECTS
ETR 393	Basic of Circuitry	3	6
MED 315	Life Science	3	6
CIV 215	Engineering Drawing	3	6
ETR330	Electrical and electronic devices	3	6
	Humanity*	3	6
	<b>Credit</b>	<b>15</b>	<b>30</b>

CODE	Spring Semester	KU	ECTS
ETR 337	Fundamental of Computer Programming	3	6
ETR 356	Generation, transmission and distribution of electricity	3	6
	Humanity*	3	6
	Elective (major)***	3	6
	<b>Credit</b>	<b>12</b>	<b>24</b>

CODE	Fall Semester	KU	ECTS

CODE	Summer Semester	KU	ECTS
ETR362	Summer Intership	6	12
	<b>Credit</b>	<b>6</b>	<b>12</b>

### 4th Year

CODE	Fall Semester	KU	ECTS
ETR 452	Electric machines	4	8
	Elective (major)***	3	6
ETR 462	Power electronics	3	6
ETR 460	Microprocessor technique	3	6
ETR 400	Electrotechnology	3	6
	<b>Credit</b>	<b>16</b>	<b>32</b>

CODE	Spring Semester	KU	ECTS
	Elective (major)***	4	8
ETR 468	Electrical drives	3	6
ETR 470	Industrial automation and programmable logic controllers	3	6
	<b>Credit</b>	<b>10</b>	<b>20</b>

**Total Credit for Graduation**      128      256

* Humanity		6		***Major Electives		KU	ECTS
FNLG 201	Foreign language 1	3		ETR 211	Semiconductor Devices	3	6
HIST 110	History of World Civilizations	3		EENG 250	Electrical Engineering	3	6
FNLG 202	Foreign language 2	3		EENG 245	Basic Electronics	4	8
PHIL 110	Introduction to philosophy	3		ETR 312	Fundamentals of Microwaves	3	6
LAW 220	Family Law	3		CHE 490	Renewable Energy	3	6
LAW 102	Law Enforcement Systems	3		ETR 390	Control system	3	6
	** Social Sciences	6		ETR 482	Electronic Systems and Technologies	4	8
MGT 310	Management and Organization	3		ETR 461	Robotics	4	8
LAW 220	Family Law	3		ETR 490	Optical Communication Engineering	3	6
ECON 101	Introduction to Economics	3		ETR 416	Power Conversion	3	6
LAW 102	Law Enforcement Systems	3				KU	ECTS
					University Requirement English	11	22
					University Requirement Azeri	8	16
					Humanity	6	12
	Science and Technology	9			Science and Technology	9	18
MATH 101	Calculus I	3			Social Sciences	6	12
CMS 115	Computer Application in Engineering	3			Major Courses	88	176
MED 315	Life Sciences	3					
					<b>Total</b>	<b>128</b>	<b>256</b>