

# KHAZAR UNIVERSITY

## Radio and telecommunications 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
	Credit	16	32

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
	Credit	18	36

### 2nd Year

CODE	Fall Semester	KU	ECTS
EENG 211	Circuits Theory	3	6
ENGL 216	ESP Electronics Engineering	3	6
CMS 115	Computer Application in Engineering	3	6
MATH 132	Linear Algebra	3	6
	Elective (major)***	3	6
	Credit	15	30

CODE	Spring Semester	KU	ECTS
	Social Sciences**	3	6
	Elective (major)***	4	8
ETR 246	Telecommunication Networks and Sytems	3	6
ETR 231	Analog Electronics	3	6
ETR 270	Electrical Measurements and Methods	3	6
	Credit	16	32

### 3rd Year

CODE	Fall Semester	KU	ECTS
ETR 320	Digital Electronics	3	6
MED 315	Life Science	3	6
CIV 215	Engineering Drawing	3	6
ETR 393	Basics of Circuitry	3	6
	Humanity*	3	6
	Credit	15	30

CODE	Spring Semester	KU	ECTS
ETR 337	Fundamental of Computer Programming	3	6
	Elective (major)***	3	6
	Elective (major)***	3	6
	Humanity*	3	6
	Credit	12	24

CODE	Summer Semester	KU	ECTS
ETR362	Summer Intership	6	12
	Credit	6	12

### 4th Year

CODE	Fall Semester	KU	ECTS
ETR 408	Electrodynamics and propagation of radio waves	3	6
	Elective (major)***	4	8
ETR 401	Wireless Communication Technology	3	6
ETR 466	Electrical Power Supply	3	6
ETR 454	Signals and Systems	3	6
	Credit	16	32

CODE	Spring Semester	KU	ECTS
	Elective (major)***	4	8
	Elective (major)***	3	6
ETR 487	Electric Communication Theory	3	6
	Elective (major)***	4	8
	Credit	14	28

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	4	8
LAW 220	Family Law	3	ETR 375	Theory of Reception, Processing and Transmission of Images	3	6
LAW 102	Law Enforcement Systems	3	ETR 399	Microelectronics and nanoelectronics	3	6
	** Social Sciences	6	CHE 490	Renewable Energy	3	6
MGT 310	Management and Organization	3	ETR 495	Control system	3	6
LAW 220	Family Law	3	ETR 482	Electronic Systems and Technologies	4	8
ECON 101	Introduction to Economics	3	ETR 461	Robotics	3	6
LAW 102	Law Enforcement Systems	3	ETR 490	Optical Communication Engineering	3	6
			ETR 416	Power Conversion	3	6
			ETR 476	Radio Transmitting and Antenna Devices	4	8
			ETR 465	Microprocessors	4	8
			ETR 463	Digital microelectronics	4	8
	Science and Technology	9	ETR 472	FPGA- gate array programming	4	8
MATH 101	Calculus 1	3		KU	ECTS	
CMS 115	Computer Application in Engineering	3		University Requirement English	11	22
MED 315	Life Sciences	3		University Requirement Azeri	8	16
				Humanity	6	12
				Science and Technology	9	18
				Social Sciences	6	12
				Major Courses	88	176
				Total	128	256