KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT

SCHOOL OF ENGINEERING

CURRICULUM: SPACE TECHNOLOGY

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
1 SEMESTER	• Computer Science 1 • Engineering Drawing 1 • Mathematical Analysis 1 • Linear Algebra and Geometry • Technical English 1	• Introduction to Space Technology • World History • Russian Language 2 • Basics of Electronics • Physics 2 • Elective module (1 out of 2)	• Spacecrafts • Fundamentals of Orientation and Stabilization Systems for Spacecraft • Software Packages for Data Processing of Remote Sensing of the Earth • Space Imagery Decryption Methods • Spatial Data Infrastructure • Elective module (1 out of 2)	• Fundamentals of Automation • Elective module (1 out of 2) • Elective module (1 out of 2) • Elective module (1 out of 2) • Elective module (1 out of 2) • Elective module (1 out of 2)
2 SEMESTER	• Russian Language 1 • Philosophy • Technical English 2 • Computer Science 2 • Mathematical Analysis 2 • Physics 1	• Fundamentals of Circuit Theory • Politology • Psychology • Green Economy and Ecology • Basics of Mechatronics • Algorithms and Programming • Inernship 1	• Satellite Communication Systems • Data Interpretation Methods • Microprocessor Technology • Elective module (1 out of 2) • Elective module (1 out of 2) • Elective module (1 out of 2) • Internship 2	• Undergraduate practice • Graduation research (project)

CURRICULUM: TRAFFIC MANAGEMENT, ELECTIVES LIST

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
1 SEMESTER		• Applied Mechanics • Applied Engineering Programs	• Fundamentals of Laser Scanning of the Earth • Space Systems for Remote Sensing of the Earth	• Fundamentals of Space Systems Management • Fundamentals of Space Project Management • Spacecraft Power Supply Systems • Spacecraft Thermal Control Systems • Nanosatellite Design • Picosatellite Design • Spacecraft Assembly and Testing Technology • Testing Technology of Onboard Control System • Lean Manufacturing • Digital Manufacturing and Design Technologies
2 SEMESTER			• Onboard Control Systems • Robotic Complexes in Space • Satellite Navigation Systems • Satellite Positioning Systems • Design of Space Systems for Remote Sensing of the Earth • Design of Mechatronic Systems	