KIMYO INTERNATIONAL UNIVERSITY IN TASHKENT

SCHOOL OF ENGINEERING

CURRICULUM: MECHATRONICS SYSTEMS ENGINEERING

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
1 SEMESTER	• Computer Science 1 • Chemistry • Mathematical Analysis 1 • Linear Algebra and Geometry • Technical English	• Introduction to Mechatronics • Material Science • Physics 2 • Algorithms and Programming • Basics of Electronics	• Digital Electronics • Big Data • Electrical Machines • Theory and Practice of Measurements	• Rapid Prototyping • Design of Mechatronic Systems • Robotics
2 SEMESTER	• Engineering Drawing 1 • Computer Science 2 • Mathematical Analysis 2 • Physics 1	• Applied Mechanics • Fundamentals of Circuit Theory • Basics of Mechatronics • Academic Internship 1	• Sensors and Instrumentation • Fluid Mechanics • Elective module (1 out of 1-2) • Elective module (1 out of 3-5) • Internship 2	• Undergraduate practice • Graduation research (project)

CURRICULUM: MECHATRONICS SYSTEMS ENGINEERING, ELECTIVES LIST

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
1 SEMESTER				• Industrial Plants and Project Management • Engineering Economics and Costing • Digital Manufacturing and Design Technologies • Manufacturing Process
2 SEMESTER			• PLC Control • Electrohydraulic Control Systems • Fundamentals of Machine Design • Finite Element Method in Mechanical Engineering • Digital Manufacturing and Design Technologies	