

Criteria for enrollment in GRIAT/

Programme	Previous Education	Aver. BSc Mark	Basic Knowledge in	Additional Requirements
Chemical and Energy Engineering	Bachelor of Science or Bachelor of Engineering in the appropriate program or related field	4,2	<ul style="list-style-type: none"> - hydrodynamics, - heat and mass transfer, - mathematical and computer modelling, - organic chemistry, - inorganic chemistry, - basics of chemistry 	<ol style="list-style-type: none"> 1. motivation letter 2. list of publications, participation in international grants, conferences, programs, exhibitions, information about scientific and educational awards (if available) 3. working experience (if available)
Electrical Engineering and Information Technology	Bachelor-, Master- or Specialist degree diploma in electrical engineering (not in Information Technology)	4,3	<ul style="list-style-type: none"> - theoretical foundations of electrical engineering, - analog and digital electronics, - circuit design of electronic devices, - technical electronics, - power electronics, - electrical systems and grids, - information technology and modeling, - programming skills in MatLab 	
Systems Engineering and Engineering Cybernetics	Bachelor of Science in systems engineering and technical cybernetics or in related specialties (in KAI they are as follows: 27.03.04 - Control in technical systems 24.05.06 - Aircraft Control Systems 15.03.06 - Mechatronics and Robotics 15.03.04 - Automation of technological processes and production)	not less than 4.12	<ol style="list-style-type: none"> 1. Computer science (theory, programming in C ++ or Pascal, object-oriented programming, programming in MatLab) 2. Electronics (calculation of DC and AC circuits, semiconductor devices - diodes, transistors, operational amplifiers, discrete and digital electronics, triggers, logic elements, registers, microprocessors) 3. Theory of automation control (ordinary differential equations, analytical and numerical solution of differential equations, transfer functions, state space, characteristic equations, stability criteria, frequency characteristics of systems, system quality indicators, programming skills in MatLab) 	