



# **INFORMATION TECHNOLOGIES OF DESIGN AND IMPLEMENTATION OF SATELLITE REMOTE SENSING SYSTEMS**

**MASTER'S PROGRAMME DEGREE**



## PROGRAM ADVANTAGES

- ✓ In-depth theoretical training in the design and use of satellite systems for Earth remote sensing will allow graduates to successfully solve the problems of agriculture and forestry, territorial planning, exploration, inventory of natural resources and environmental management, assessment of environmental risks.
- ✓ A feature of the training is the practical implementation of a variety of applied projects using the most advanced software for processing Earth remote sensing data and their thematic interpretation technologies.
- ✓ Workshops presented by leading experts in the field of space activities, participation in international competitions, communication with potential employers.
- ✓ The opportunity to participate in the student exchange programs with partner universities.
- ✓ Thanks to the international composition of the study group, you are building up your own network of professional international contacts already at the university.
- ✓ Internship and employment opportunities at the leading state space-profile organizations, industry centers and commercial structures using space information.
- ✓ Using your own space information receiving station.



# STUDYING PROCCCESS

**120** educational credits.

Lectures, practical classes, self-study work.



## THE MAIN SUBJECTS OF STUDY

- Fundamentals for design and application of satellite systems for Earth remote sensing.
- Systems and methods for obtaining Earth remote sensing data.
- Technologies and methods for decrypting Earth remote sensing data.
- The use of geographic information systems and Earth remote sensing data to solve applied problems of national economies.
- Application of Earth remote sensing systems for solving applied problems in ecology, oil and gas industry, agriculture, emergency monitoring and inventory of natural resources.





# HEAD OF THE PROGRAMME

**RAZOUNNY YURY NIKOLAEVICH**



- Director of the Academy of Engineering of RUDN University.
- Director of the Department of Mechanics and Mechatronics.
- Doctor of Technical Sciences, Professor.
- Academician of the Russian Cosmonautics Academy Named after K.E. Tsiolkovsky, Academician of the International Academy of Astronautics, full member of the American Institute of Aeronautics and Astronautics.
- Co-Editor of Acta Astronautica (UK) and REACH (Germany).

## **RESEARCH INTERESTS:**

Systems Analysis and Synthesis of Complex Technical Systems, Mechanics and Control Processes, Satellite System Design.