



САМАРСКИЙ УНИВЕРСИТЕТ
SAMARA UNIVERSITY

Teaching GNSS technologies at Samara university

Dean of the Faculty of Electronics and
Instrument Engineering
Kudryavtsev Ilya

Samara, 2017



Master's program in GNSS technologies





International group of students and international staff





1. Provide a world-class level of education in the area of GNSS
2. Contribute to the reputation of the institute and the university as advanced centres of competencies
3. Attract foreign students in order to raise some indicator values for the 5/100 program
4. Create a research laboratory of the world-class level



OBJECTIVES

1. Create and maintain a relevant curriculum
2. Invite a highly professional supervisor of the program and english-speaking lecturers for the key courses
3. Form international groups of students, involving them into vocational, research and other activities
4. Provide the environment, which allows teaching and learning in comfortable conditions



1. Program implies several course projects and research activity
2. Some of the projects are to be accomplished in groups
3. Russian-speaking students and PhD students are involved into the process of teaching directly or implicitly
4. Provide the environment, which allows teaching and learning in comfortable conditions



1. Assessment methods include traditional examination, course projects and intermediate testing
2. Graduates accomplish their study making master theses and defending it in front of examination board. Typically master theses are based on the research, carried out earlier
3. Students are encouraged to offer their own research topics in accordance with their local and personal interests



CURRICULUM

History and Methodology of Science	3 ECTS
Modern Problems of Science and Stable Development	4 ECTS
Radio Receiver's Theory (Including Communication on Noisy Channels)	3 ECTS
Basic GPS Theory	3 ECTS
Digital Signal Processing Algorithms	3 ECTS
Matlab Programming (Free Study Activity)	3 ECTS
Academic English	2 ECTS
Course Project	10 ECTS

Radio Navigation Theory and Radars	4 ECTS
Design and Applications with FPGA	4 ECTS
Receiver Technology (SDR)	3 ECTS
Reference Frames, Datum, and Geoid	3 ECTS
Basics of Nanoelectronics	4 ECTS
English (Presenting Research)	3 ECTS
Course Project	10 ECTS

Optical Methods in Navigation	2 ECTS
Algorithms of Acquisition and Tracking	3 ECTS
Altium Designer and PCB Development	3 ECTS
GPS Modules and Application in Aircraft and Spacecraft	3 ECTS
DSP Processors and Hardware	3 ECTS
Position Computations	3 ECTS
Analog and Digital Electronics	3 ECTS
Course Project	10 ECTS



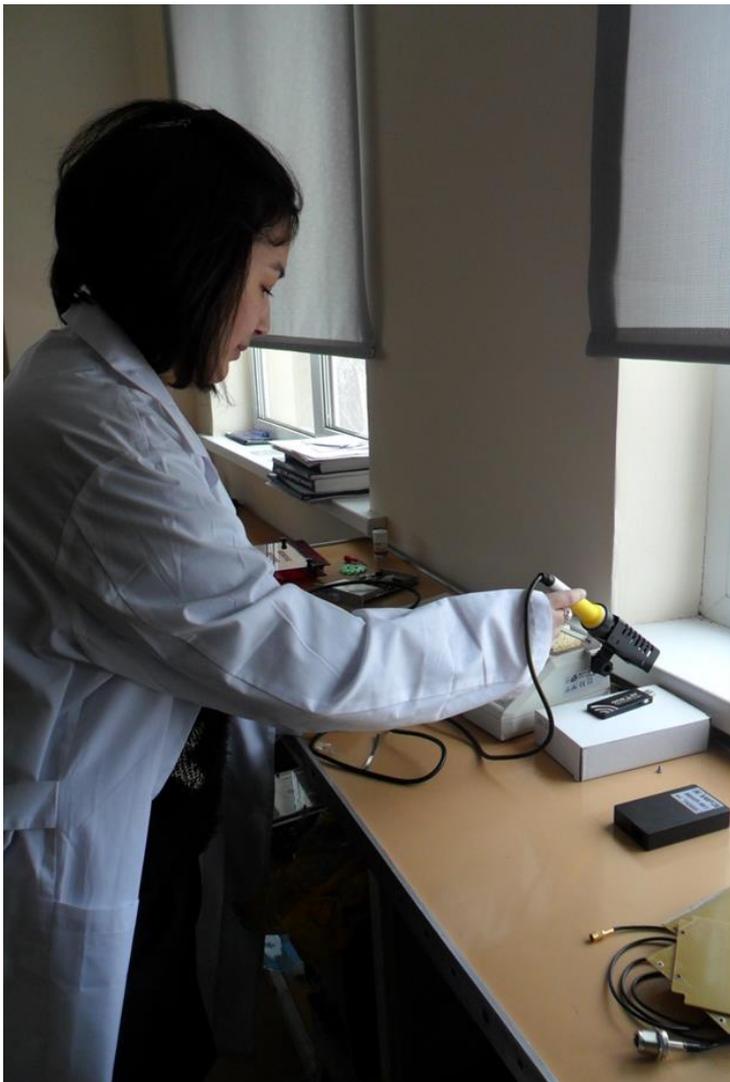
1. Staff includes 3 foreign lecturers from the leading institutions
2. Russian lecturers passed a special language course
«Delivering lectures in english»
3. Russian lecturers have special rises to their salary



1. We have successful experience with international groups including students from RF, Columbia, Equador, Iran, Mexico, Kazakhstan
2. Students have an opportunity to ask for a grant for mobility or a travel for the conference within RF or outside
3. University has a strategy of making friendly environment, including various activities
4. Students have their national communities



STUDENTS





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THANK YOU

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