Program name	**Master's degree program “Cyber-physical production control systems”**
Key facts	Master’s degree program is focused on modern methods of production control systems and technological processes. The research topics are aimed to solve problems of design, technological pre-production, planning and control of manufacturing processes under full-cycle electronic equipment production. The program will provide students with the knowledge necessary to design of information systems and services for the collection and processing of production data, as well as in the organization and control of production systems using modern approaches. As part of the training, students solve control and project tasks issued by a strategic partner –the enterprise "AO "Radiosvyaz". Practices and research work are usually carried out in various departments of the enterprise
Program length	2 years
Starting date	September, 1st
Language of instruction	Russian
Prerequisites	• Bachelor's degree in Computer Science, Informatics, Electronics, Management or equivalent (a copy of your diplomas from previous university studies) • Skype interview *A motivation letter and letters of recommendation may also be required
Tuition fee per year	-
Program leader/team	Denis KAPULIN Candidate of technical sciences (Electronics), Head of IT in Radioelectronic Manufacturing Department, School of Space and Information Technologies
Qualification	Master of Science
Skills/ objectives	- to arrange design of electronic devices and systems -to carry out functional and physical analysis of control objects using CAD -to solve the design problems of flexible customized production facilities - to develop projects for the improvement of production technologies of industry 4.0 -to create a logistics-oriented production process -to use of lean production methods -to evaluate the effectiveness of the use of lean manufacturing methods
Curriculum	Mathematical methods for solving control problems; Simulation of technological and production processes; Software and hardware complexes and digital control systems; Enterprise information structure; The technology for the Industrial Internet of Things; Functional analysis of automation and control objects; Control processes for adaptive manufacturing; Radio-electronic equipment production technology; Methods of designing micro- and nanoelectronic devices; Production logistics.
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