Programme Objective: training of professional engineers with high research and application-oriented skills in designing modern and promising complex organizational and technical systems and competence at the junction of the following fields:
- Control theory for interdisciplinary systems;
- System engineering;
- Activity organization methodology in active systems;
- Solution methods for organization and control problems in engineering and production activity;
- Information systems and ICT in complex systems control;
- Applications in organization and control systems for activity processes and product lifecycles.

**KEY ADVANTAGES:**
- Represents a cross-functional composite program of several departments at MIPT under the overall coordination of Control Problems Chair (the core chair at Department of Radio Engineering and Cybernetics located at Trapeznikov Institute of Control Sciences, Russian Academy of Sciences);
- Aims at creation and further development of a unique competence complex in the fields where MIPT and its partners have reached the international level of expertise, see the textbooks and monographs published in English by leading international houses;
- Is oriented towards gradual extension (during the learning process) of the original variable part of the program owing to distant learning courses;
- Allows implementation in some international partner universities, e.g., in Cyprus ("exporting the educational products of MIPT").

**TEACHING METHODS:**
The programme includes lectures, tutorials, and exercise (mastering of the basic methods of modelling and simulation). During the preparation of research projects students will obtain solid knowledge and skills within a chosen research topic.

**STUDIED COURSES:**
- Advanced cybernetics;
- Mathematical control theory;
- Operations research;
- Intellectual control systems;
- Information technologies in control;
- Systems engineering;
- Informational risks control;
- Enterprise architecture: design and management;
- Quality management systems;
- Operational and investment business-models;
- Industrial control systems;
- Product lifecycle management;
- Theory of control in organizations;
- Discrete production management;
- Technologies of business-activities transformation;
- Business processes reengineering;
- Models of informational control and collective behavior.

**PROGRAMME PARTNERS:**
- Institute of Control Sciences V.A. Trapeznikov (Russia);
- IBS Group Holding Ltd. (Russia)
- Coventry University (UK);
- Intercollege (Cyprus);
- L-CLASS Ltd. (Bulgaria);
- CDIO
- University of Nicosia Online Ltd

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