**The list of educational directions and specialties**

**for training foreign students at Master level**

**in National Research University “Moscow Power Engineering Institute “**

**2016**

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| **INSTITUTE OF POWER MACHINERY AND MECHANICS** |
| **15.04.03** **Applied Mechanics** |
| Dynamics and Strength of Machines, Instruments and Equipment |
| **15.04.06 Mechatronics and Robotics** |
| Computer Technologies for Control in Robotics and Mechatronics |
| **13.04.03 Power Engineering Machinery** |
| Power Installations on Organic and Nuclear Fuel |
| Gas-Turbine, Steam-Turbine Installations and Engines |
| Research and Design of Automatic Hydraulic and Pneumatic Systems, Machines and Aggregates |
| Power Engineering Equipment Manufacturing |
| **INSTITUTE OF THERMAL AND NUCLEAR POWER ENGINEERING** |
| **13.04.01 Thermal Power Engineering and Heat Engineering** |
| Thermal Power Plants: schemes, technological processes, auxiliary equipment, systems and installations |
| Technology of Water and Fuel in Power Engineering |
| Theoretical Fundamentals of Heat Engineering |
| Automated Control Systems for Objects of Thermal and Nuclear Power Plants |
|  **14.04.01 Nuclear Power Engineering and Thermophysics** |
| Thermophysics and Molecular Physics |
| Physical-Engineering Problems of Nuclear Power Engineering |
| Low Temperatures Physics and Engineering |
| Applied Plasma Physics and Controllable Thermonuclear Fusion |
| Nano-Technologies and Nano-Materials in Power Engineering |
| **INSTITUTE OF ENERGY EFFICIENCY PROBLEMS** |
| **13.04.01 Thermal Power Engineering and Heat Engineering** |
| Effective Thermal Power Engineering systems of Enterprises and Housing and Communal Services |
| Energetic of Heat Technologies |
| Energy Supply of Enterprises. Heat-and-Mass Exchange Processes and Installations |
| Energy Supply of Enterprises. High-Temperature processes and Installations |
| Innovative Technologies in Thermal Power Engineering and Heat Engineering |
| Autonomous Power Engineering Systems. Hydrogen and Electric-Chemical Power Engineering |
| **INSTITUTE OF ELECTRICAL ENGINEERING** |
| **13.04.02 Electric Power Engineering and Electrical Engineering** |
| Electromechanical Energy Conversion and Methods of Investigation |
| Electrical Apparatuses for Energy Control and Distribution |
| Electrical Technology Processes and Installations with Systems of Control and Power Supply |
| Electrical Drive and Automatics |
| Electrical Materials Science, Physics and Engineering of Electrical Isolation, Cables and Electrical Capacitors |
| Motion Theory of Electrical Rolling-Stock and Optimization Problems of Haulage Equipment and Devices for Electric Supply of Transport Systems |
| Electrical, Electromechanical and Electronic Systems of Autonomous Objects |
| Engineering and Information Support of Construction and Functioning of Supply Sources, Networks and Objects of Electrical Systems of Consumers |
| Man-Caused Safety in Electrical Power Engineering and Electrical Engineering |
| **11.04.02 Electronics and Nano-Electronics** |
| Semiconductor Materials and Structures |
| **INSTITUTE OF ELECTRICAL POWER ENGINEERING** |
| **13.04.02** **Электроэнергетика и электротехника** **Electric Power Engineering and Electrical Engineering** |
| Electrical Power Plants and Substations |
| Electrical Systems and Networks, its Modes, Stability, Reliability and Quality of Electrical Energy |
| Optimization of Structures, Parameters and Modes of Electrical Supply Systems and Effectiveness Increase of its Functioning |
| Engineering and Electrical Physics of High Voltages |
| Energy Installations on the Basis of Renewable Energy Sources |
| Hydro-Power Installations |
| Relay Protection and Automation of Electrical Power Systems |
| Management in Electrical Power Engineering |
| **INSTITUTE OF AUTOMATICS AND COMPUTER ENGINEERING**  |
| **01.04.02 Applied Mathematics and Informatics** |
| Mathematical and Software Support for Computers and Computing Networks |
| Mathematical Modeling  |
| **09.04.01** **Informatics and Computer Engineering** |
| Computing Machines, Complexes, Systems and Networks |
| Computing-Measuring Systems |
| Program and Project Management |
| Automated Systems for Information Processing and Control |
| **27.04.04 Control in Engineering Systems** |
| Control and Informatics in Engineering Systems |
| Systems and Technical Means of Automation and Control |
| **12.04.01 Instrumentation** |
| Instruments and Methods of Quality Inspection and Diagnostics |
| **INSTITUTE OF RADIO ENGINEERING AND ELECTRONICS** |
| **11.04.04 Electronics and Nano-Electronics** |
| Solid-State Micro- and Nano-Electronics |
| Electronic Devices and Instruments |
| Industrial Electronics And Microprocessor Engineering |
| Optical-Electronic Devices and Systems |
| Theoretical and Applied Light Engineering |
| Quantum Electronics |
| **11.04.01 Radio Engineering** |
| Radio Engineering Systems |
| Radio Engineering Methods and Devices for Signal Formation |
| **12.04.04 Bioengineering Systems and Technologies** |
| Radio Engineering in Bioengineering and Medical apparatuses and Systems |