

## Nuclear engineering (Master)

<b>Higher Education Institution</b>	National Research Nuclear University MEPhI
<b>Country</b>	Russian Federation
<b>City</b>	Moscow
<b>Web-site</b>	<a href="http://www.mephi.ru">www.mephi.ru</a>
<b>Name of the Programme</b>	Nuclear engineering
<b>Degree awarded</b>	Master
<b>Qualification Level</b> (first/ second cycle)	Second
<b>Programme objectives; Profile</b>	Training graduates who will be able to successfully work in areas related to the design, analysis and assessment of the safety and economic efficiency of modern and promising nuclear power plants.
<b>Programme Duration</b>	2 years
<b>Total number of ECTS Credits awarded</b>	120 ECTS
<b>Curriculum analysis</b> (% and credits):	
– <b>engineering fundamentals and advanced engineering subjects (including final thesis)</b>	60,0% (72 ECTS)
– <b>mathematics / natural sciences fundamentals</b>	20,0% (24 ECTS)
– <b>humanities and socioeconomics studies</b>	10,0% (12 ECTS)
- <b>other</b>	10,0% (12 ECTS)
<b>Brief description of the programme</b>	The Nuclear Engineering Master's Program is aimed at training graduates capable of successfully working in the field of design, analysis and evaluation of safety, efficiency, modern and advanced nuclear installations. In addition, as a result of master's program, a graduate should have a sufficient set of system analytical competencies, leadership and communication skills to work in a creative team. Graduates receive in-depth knowledge of neutron-physical and thermal-hydraulic processes occurring in the reactor core, under normal operating conditions, as well as in emergency and transition modes. Attractive aspects of the program: deep

	physical and mathematical, as well as information and technological training and competence in the field of critical high-tech technologies, ensuring reliable employment.
--	--