

## NORTH-EASTERN

## FEDERAL UNIVERSITY NAMED AFTER M.K.AMMOSOV

<b>Course/program title</b>	<b>Modern materials in the energy sector</b>
<b>Main goals and topics of the course/program</b>	<p>Purpose of the course is forming of fundamental training in the sphere of energy sector.</p> <p>The structure and content of the program:</p> <p>Classification of electrical materials.</p> <p>Dielectrics: physical processes, types of dielectrics, the characteristics, the field of usage.</p> <p>Conductors: types, characteristics, physical processes in metallic conductors, the field of application; cryo - and superconductors.</p> <p>Magnetic materials: classification, types, properties of ferro magnets, the field of application. New materials in the energy sector. Nanotechnology.</p>
<b>Name of the department/institution offering the course</b>	The Department of Electric Drive and Production Processes Automation
<b>Name of lecturer/supervisor</b>	Starostina Liliya Valerjevna
<b>E-mail of lecturer/supervisor</b>	star-liliy@mail.ru
<b>Number of ECTS-Credits</b>	