

<p style="text-align: center;">04.03.01 Chemistry</p> <p>Degree: bachelor Program length and study mode: 4 years, intramural Language: Russian Credits: 240 Start date: 01.09.2020 Location: 7 Zorge st., Rostov-on-Don</p> <p>Entry requirements: the applicant must have an official State certificate of a full general secondary education or of secondary vocational education.</p>	<p style="text-align: center;">Program overview:</p> <p>The educational program forms all the necessary skills, which are provided for by the Federal State Educational Standard of Higher Education; provides graduates with knowledge and skills that make highly competitive in the labor market. One of the advantages of the program is a high level of scientific and educational process.</p> <p>Program structure: Unit 1 “Courses (Modules)” - at least 198 credits Unit 2 “Practical training” - at least 6 credits Unit 3 “State Final Examination” - 6-9 credits</p> <p>Typical units of study may include: General and inorganic chemistry, Mathematics, Science, Philosophy, History, Analytical chemistry, Organic chemistry, Physical chemistry, Electrochemistry, Polymer chemistry</p> <p>Research areas:</p> <ul style="list-style-type: none"> - Chemistry, technology, properties and application of ferroelectric and piezoelectrics, solid electrolytes, active composite materials; - Physico-chemical studies of complex compounds, including cluster and immobilized complexes; - Analytical chemistry of biologically active compounds; 	<p>Careers: JSC “ATLANTIS-PAK”; the Southern scientific center of the Russian Academy of Sciences; Center of Standardization, Metrology and Certification; Laboratory of medicine quality control in the Southern Federal District, JSC “Novoshakhtinsk’s petroleum products plant”, “Hydrochemical Institute of the Federal Service for Hydrometeorology and Environmental Monitoring” and etc.</p> <p>Get in touch:</p> <ul style="list-style-type: none"> - <i>Irina V. Rybalchenko</i> - <i>Candidate of Science, Associate Professor</i> - 8-951-52-25-117 - <i>riv@sfedu.ru</i> <div style="text-align: center;">  </div>
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	<ul style="list-style-type: none">- Environmental chemistry and chemical expertise;- Chemistry of nitros heterocycles, organic superbases and proton transfer processes;- Synthesis, study of the structure and properties of carbohydrates and their synthetic analogues;- Electrochemistry and corrosion of metals and alloys, corrosion control methods;- Synthesis, study of the structure and properties of new types of heterocyclic compounds to obtain physiologically active compounds and medicine;- Production, microstructure and properties of nanostructured platinum-containing catalysts for low-temperature fuel cells.	
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