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<tr><td>Name of educational Institution</td><td colspan="3">Shota Rustaveli State University, address: 6010, Batumi, Ninoshvili Street No.35, Tel/Fax: (+995 222) 7 17 87; e-mail: info@bsu.edu.ge</td></tr>
<tr><td>Title of Educational Program</td><td colspan="3">Mining and Geoengineering</td></tr>
<tr><td>Qualification conferred</td><td colspan="3">Bachelor of Engineering in Mining and Geoengineering</td></tr>
<tr><td>Goals of the Educational Program</td><td colspan="3">- to prepare Bachelors of Mining and Geoengineering with the basic knowledge of oil and gas technologies, oriented towards scientific and practical activities;
- to prepare Bachelors with knowledge /skills relevant to market demands and high probability of employment;
- to prepare Bachelor of Mining and Geoengineering with stable basic knowledge and time relevant transferrable competences who will easily orientate in dynamically changeable environment;
- to prepare Bachelor of Mining and Geoengineering in accordance with his/her choice and structure of the educational program with deeper knowledge in one of the directions;
- to prepare Bachelor of Mining and Geoengineering who will be able to continue study according to his wish at the next level of education</td></tr>
<tr><td rowspan="2">Learning Outcomes</td><td>Criteria</td><td>1. General(Transferrable) Competences</td><td>2. Subject Specific Competences</td></tr>
<tr><td>Knowledge and Understanding</td><td>1. Has a broad knowledge of the field that comprises critical comprehension of theories and principles; understands complex issues of the field.</td><td>1. Knowledge of the basic concepts, theories and principles of oil and gas technology;
2. knowledge of relevant mathematical methods in solving engineering-technical problems;
3. basic knowledge of natural sciences (physics, general chemistry)
4. Knowledge and understanding of management and project elements in the field of mining and geoengineering;
5. Knowledge of ethic, legal norms and disciplines of humanities necessary for social activities.
understands complex issues of the field, namely</td></tr>
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			6. Acquires professional and ethic responsibilities of a miner and geo-engineer; 7. Understands interrelations between technical and environmental issues
	Application of knowledge in practice	1. Is able to apply relevant methods as well as some distinguished one in problem solving, accomplish research or practical projects in accordance with preliminary instructions.	1. Is able to apply basic natural science and quantitative methods in engineering practice; 2. Is able to apply in practice other compulsory subjects relevant to mechanics, mining and geo-engineering; 3. Is able to drill oil and gas deposits, conduct geo-physical survey, supply calculation and elaboration; 4. is able to determine oil and gas characteristics and exploitation of oil and gas terminals; 5. is able to calculate oil and gas transportation and select its type; 6. is able to calculate and construct equipment, technological processes, constructions and apparatus for oil and gas pipelines and reservoirs; 7. is able to identify, formulate and solve common problems characteristic to oil and gas technology; 8. Is able to apply methods, techniques and computer programs necessary for modern engineering/technological practice; 9. Is able to plan and conduct experiments, field and laboratory works as well as analyse and interpret the obtained results; 10. is able to conduct

			environmentally safe technological activities
	Skill to make conclusions	Is able to gather and define field-relevant data as well as analyze abstract data and/or situations applying standard and some distinguished methods and formulate argumentative conclusions	1. Is able to obtain relevant information from scientific reference literature and internet, make evaluation and adequate interpretation. 2. Analysis of new data applying standard and some distinguished methods and formulate argumentative conclusions, for instance, solve problems risen in oil and gas technology, elaboration of relevant approach, discuss alternative possibilities and analyze the obtained results, determine the quality of oil products applying standard methods of physical and chemical properties of oil, analyze the functioning of equipment, technological processes, constructions and apparatus for oil and gas pipelines and reservoirs, etc.
	Communication skills	1. Is able to prepare detailed written report on ideas, existing problems and the ways of solution; to pass information verbally to specialists and non-specialists in native language; 2. Is able to prepare detailed written report on ideas, existing problems and the ways of solution; to pass information verbally to specialists and non-specialists in a foreign language; 3. Is able to make creative application of modern information and communication	1. Is able to prepare detailed written report in the form of essays, presentations, reports and bachelor's thesis and to pass information verbally to specialists and non-specialists in native language; 2. Is able to accomplish the activities described in article 1 on at least one more foreign language; 3. Is able to present technical information to an audience by using diagrams, internet and other means of communication; makes

		technologies	creative application of modern information and communication technologies necessary for engineering practice; it comprises the role and application of corresponding information technology, modern methods of analysis and design and application of corresponding codes and standards as the means of solving practical problems in addition to fundamental knowledge.
	Learning skills	Is able to make consecutive and diverse evaluation, determine necessities of further learning.	Is able to determine necessities for own learning: 1. Lifelong learning that comprises constant education and professional activities; 2. Personal and professional development that means: permanent knowledge assessment and improvement of professional skills, deepening of communication skills and broadening of knowledge in disciplines related to mining and geo-engineering. It can be reached by high degree of independence processes of self-education, study at MA level and active involvement in professional unions.
	Values	Participates in the process of value formations and strives for their implementation.	1. Professional and ethical responsibilities of a miner and geo-engineer for the public safety, health and welfare; acts in accordance with the main laws of ethics.
Number of Credits	240 credits Major - 120 credits, Minor - 60 credits. Free component concentration - 30 credits.		

	University and faculty teaching – 30 credits. (1 ECTS credit comprises 25 hours).
Contact Person	**Full Name: Eter Nizharadze** **Address:** Batumi, 26 Maisi Str. No.26, Apt. 17 **Tel.:** (+99593) 53 83 70 **E-mail**: e.nijaradze@rambler.ru **Academic position:** Full Professor