

Name of educational Institution	Shota Rustaveli State University, address: 6010, Batumi, Ninoshvili Street No.35, Tel/Fax: (+995 222) 7 17 87; e-mail: info@bsu.edu.ge		
Title of Educational Program	Telecommunication		
Qualification conferred	Bachelor of Engineering in Telecommunication		
Goals of the Educational Program	<ul style="list-style-type: none"> - to prepare Bachelors of Engineering in Telecommunication as specialists with the basic knowledge of engineering education, oriented towards construction and design activities; with the skills of raising and solving tasks with classical as well as modern methods of computer technologies; - to prepare Bachelor of Engineering in Telecommunication with knowledge /skills relevant to market demands and high probability of employment; - to prepare Bachelor of Engineering in Telecommunication with stable basic knowledge and time relevant transferrable competences who will easily orientate in dynamically changeable environment; - to prepare Bachelor of Engineering in Telecommunication in accordance with his/her choice and structure of the educational program; - to prepare Bachelor of Engineering in Telecommunication who will be able to continue study according to his wish at the next level of education 		
Learning Outcomes	Criteria	1. General(Transferable) Competences	2.Subject Specific Competences
	Knowledge and Understanding	1. Has a broad knowledge of the field that comprises critical comprehension of theories and principles; understands complex issues of the field.	1. Knowledge of the basic concepts, theories and principles of the field of Telecommunication and the main tendencies of technical development; 2. Knowledge of theoretical basics and functioning principles of scheme-technical projection, calculation and construction of commuting knots, analogous and discrete messaging systems and apparatus, data transmission and telephone networks, channel-producing and terminating apparatus, electronic management complexes and mobile connections; basics of multichannel and relay connections, communication systems, electrical acoustics and electrical communication supply apparatus; knowledge of design and functioning principles of multichannel systems of

			<p>transmission, ground and space radio connections, TV and radio broadcasting, receiving and transmitting and antenna feeder technique; knowledge of theoretical potentials and design principles of information gathering, processing, storage and transmission; knowledge of information safety and methods of protecting information from non-sanctioned stand-ins.</p> <ol style="list-style-type: none"> 3. knowledge of relevant mathematical methods in solving engineering-technical problems; 4. Knowledge and understanding of management and project elements in the field of Telecommunication; 5. Knowledge of ethic, legal norms and disciplines of humanities necessary for social activities. <p>understands complex issues of the field, namely</p> <ol style="list-style-type: none"> 6. Acquires professional and ethic responsibilities of a telecommunication engineer; 7. Understands interrelations between technical and environmental issues
	<p>Application of knowledge in practice</p>	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. 1. Is able to apply basic natural science and quantitative methods in engineering/telecommunication practice; 2. Is able to utilize in practice electric circuits, electrical equipment, engineering mechanics and other engineering applied subjects; 3. Is able to model processes in telecommunication networks, information processing equipment and systems and their technical exploitation; exploitation an service of telecommunication systems and equipment; measure the

			<p>properties of telecommunication instruments, apparatus, channels and tracts and process the measurement results;</p> <ol style="list-style-type: none"> 4. Is able to identify, formulate and solve common problems characteristic to telecommunication; 5. Is able to apply methods, techniques and computer programs necessary for modern engineering/technological practice; 6. Is able to plan and conduct experiments, field and laboratory works as well as analyse and interpret the obtained results; 7. 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	<ol style="list-style-type: none"> 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, formulate main technical-economic demands to projection units and systems and on the basis conduct technical-economic analysis, projection from simple towards complex systems, the methodology of which comprises problem determination, analysis, risk assessment, assessment of environmental impact, safety, constructional solution and sustainability.

	<p>Communication skills</p>	<p>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;</p> <p>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;</p> <p>3. Is able to make creative application of modern information and communication technologies</p>	<p>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;</p> <p>2. Is able to accomplish the activities described in article 1 on at least one more foreign language;</p> <p>3. Is able to present technical information to an audience by using diagrams, internet and other means of communication; makes 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.</p>
	<p>Learning skills</p>	<p>Is able to make consecutive and diverse evaluation, determine necessities of further learning.</p>	<p>1. Lifelong learning that comprises constant education and professional activities;</p> <p>2. Personal and professional development that means: permanent knowledge assessment and improvement of professional skills, deepening of communication skills and broadening of knowledge in</p>

			<p>disciplines related to transport.</p> <p>3. Is able to plan with high degree of independence processes of self-education, study at MA level and active involvement in professional unions.</p>
	Values	Participates in the process of value formations and strives for their implementation.	<p>1. Professional and ethical responsibilities of a telecommunication engineer for the public safety, health and welfare; acts in accordance with the main laws of ethics.</p>
Number of Credits	<p>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).</p>		
Contact Person	<p>Full Name: Enver Khalvashi Address: Kobuleti, village of Tsikhisdziri Tel.: 874 71 60 61, 895 71 60 61 E-mail: khalvashi@yahoo.com envkhal@rambler.ru Position: Full Professor</p>		