DualEdu

Presentation

School of Electrical and Computer Engineering of Applied Studies [VISER]

The School History

- The School of Electrical and Computer Engineering of Applied Studies dates from 1974
- Initial curricula consisted of two foundation study programs lasting for two years, with 20 lecturers, 400 square meters of teaching facilities and two laboratories.
- To this day, School implements curricula for 8 foundation study programs, 6 specialist study programs, and 3 master study programs with more than one hundred lecturers, 5000 square meters of teaching facilities and 30 laboratories.

The School History

- The School today implements programs based on three-year duration curricula drafted as per regulations and standards, subsequently determined by the Law on Higher Education.
- Modernization of the School's curricula was accomplished to the full extent through study program development, so was full compliance to set regulations and corresponding curricula of the most eminent educational institutions in the world.

The School History

In 2017:

- 8 Study Programs accredited in Bachelor Basic Professional Study
- 3 Study Programs accredited in Specialist Professional Study
- 3 Study Programs accredited in Master Professional Study
- Study according to the Bologna Declaration

The Basic Studies

Curricula for eight foundation Study programs are developed, authorized and accredited (SP), in three year duration and granting upon their completion 180 ECTS points.

- Audio and video technologies
- Automation and Vehicle Control Systems
- Computer Engineering
- Electronics and Telecommunications
- Environmental engineering
- Information Systems
- New Computer Technologies
- New Energy Technologies

Audio and Video Technologies

The department of Audio and video technologies in VISER was established in the year of 2000/01 under the name Audio and TV media in the form of two and a half year of studying. In the year of 2002 it became a three year study program.

This program has the goal to form professional engineers of electrical engineering and computer science for audio and video technologies, who will be able to implement and monitor with superior technology that are used in the fields of sound and image. In that sense the study program offered in our school system is unique.



Automation and Control Systems of Vehicles

Since 2007, VISER offers to students Automation and Vehicle Control Systems Study Program representing one of the fundamental areas of modern technique.

Local job market requires know-how trained engineers of automation skilled to design and maintain automated processes. New techniques, technologies, as well as new regulations brought about lack of highly educated staff in the field of aforementioned areas of applied automation. This study program provide necessary staff within the scope of the Applied School.



Computer Engineering

This program was established in 1992 pursuing the needs and demands of the job market for skilled professionals in the field of computer engineering. Throughout the years, the curricula has been constantly improved, following top-notch accomplishments is the field of computer engineering.

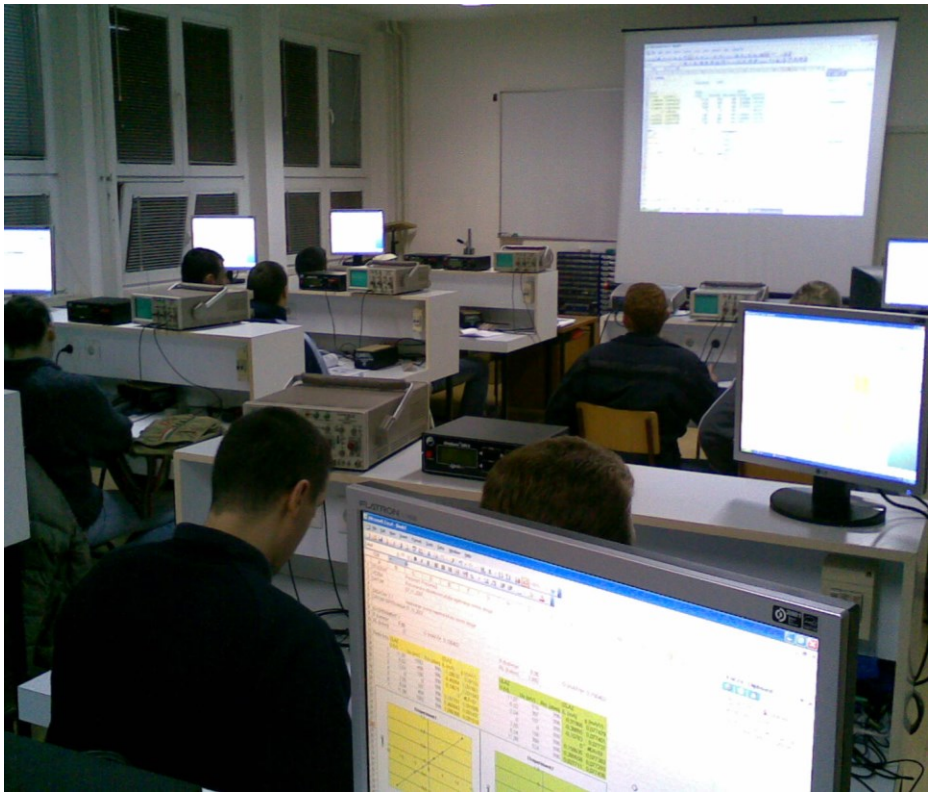
Acknowledged curricula of this program is in compliance to the practice of the leading education institutions in the field of computer engineering, as well as to the recommendations of the corresponding international professional associations such as IEEE (Institute of Electrical and Electronics Engineers) and ACM (Association for Computing Machinery).



Electronics and Telecommunications

On the grounds of modernizing SP Electronics, VISER established new study program, in the year 2003 - Electronics and Telecommunication.

Electronics and Telecommunication Study has the exact objective to supply local industry with competent staff for implementing modern technologies. The SP EL&T optimized the content and scope of skilled knowledge, expenses and time necessary for achieving necessary level of education.



Environmenatal engineering

This program is established 2017 to provide the education in the field of the environmental protection, sustainable energy, energy efficiency, waste management, possibilities of waste use, ways of preventing and reducing the harmful effects on the environment.

This program was founded in accordance with the European and world standards in the field of Ecological engineering with intention to prepare trained professional staff in the field of environmental protection.



Information Systems

The Information Systems Study Program was founded in the year of 2017. Wide range of knowledge is acquired in this study program in the field of information technology, economics and business, enabling graduates to be successfully engaged in corporate and public sector, as well as government administration.

The Study Program was founded pursuing current job market flows. Digital transformation of society demands people who have programming skills as well as understanding of business processes. Our graduates build successful careers in the private and public sectors.



New Computer Technologies

VISER has established two study programs: Hardware Computer Technology in 1992, and Software New Computer Technologies in 1997. Over 80% of our graduates work in the field of expertise.

This program Curricula offering knowledge data basis for following fields of expertise: Computer Engineering, Computer Science, Information Systems, Information Technologies and Software Engineering.



New Energy Technologies

This is one of the two founding departments at VISER (formed in 1987), and it falls within the fundamental area of modern technique.

The actual content on new energy technologies: use of renewable sources of energy, small power plants, energetic efficiency, ecology in energetic, and energetic safety. Study program New Energy Technologies has the aim to establish a professional staff for the exploitation, maintenance and design of power systems, drives and devices, with the use of modern energetic and information technologies.



Specialist Studies

Curricula for six accredited specialist study programs (SSP) in one year duration and granting upon their completion 60 ECTS points.

- Electronics and Telecommunications
- Mechatronics
- Multimedia and digital television
- New Computer Technologies
- New Energy Technologies
- Security of Information and Communication Systems

Electronics and Telecommunications

The program aim is to provide students with the high quality education in the field of electronics and telecommunications. Also this program enable students to develop creativity in their work, by offering students the opportunity to gain valuable knowledge.

At the Specialist Study level students can learn how to function in a multidisciplinary environment. Also, they have an opportunity to work with competent staff for implementing modern technologies.



Mechatronics

This program is studied, through two very perspective areas. The first area is oriented toward the acquisition, monitoring and controling of the contemporary processes in the industry, while the other one is focused on studying and testing of sophisticated systems into the automotive industry.

Students become capable to answer on different complex engineering demands in the field of automation, mainly through the usage of PLC devices and SCADA systems.

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Multimedia and digital television

The objective of the study program, the specialized vocational studies in Multimedia technology and digital television, is to establish vocational electric and IT engineering – specialists in the field of multimedia technologies and digital television.

The program has been arranged on the basis of the heights European standards for education of professionals in the above-mentioned field. The outcome of the learning process is in the training of the students specifically for performing tasks of in the field of production and post-production multimedia technology and digital television.



New Computer Technologies

This program is dedicated to improving and expanding the knowledge and skills in the use and application of existing technologies for networking, programming, application development, database, Web technology and processor hardware.

The Program of New Computer Technologies provide quality general and professional education in the field of computer, IT sector and systems and thus enable students to develop creativity in their work, giving them the opportunity to gain knowledge that can be applied in public and private organizations.

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New Energy Technologies

The program aim is to provide students with the high quality education in the field of electric power technology and systems. Also this program enable students to develop creativity in their work, by offering students the opportunity to gain valuable knowledge.



The actual content on new energy technologies: use of renewable sources of energy, small power plants, energy efficiency, ecology and safety in power engineering. Study program New Energy Technologies has the aim to establish a professional staff for the exploitation, maintenance and design of power systems, drives and devices, with the use of modern energy and information technologies.

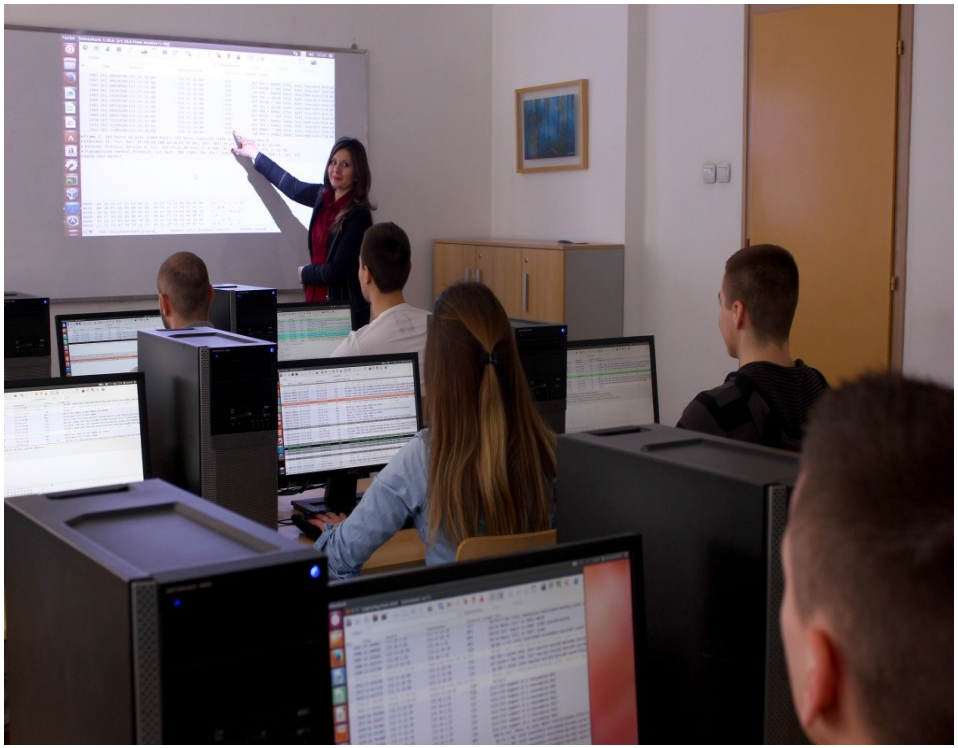
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Security of Information and Communication Systems

The program aim is to improve and expand students knowledge in the field of security of information systems security and information management.

It provides students with the high quality education and equip them to identify and solve diverse problems in the field of information technologies.

This program enable students with effective functioning in a multidisciplinary environment. Also, they learn how to effective collect, analyze and manage information, keeping up with the ongoing development of modern computer technology..



Master Studies

Curricula for three accredited master study programs (MSP) in two year duration and granting upon their completion 120 ECTS points.

- Electrical Engineering
- Multimedia Engineering
- Computer Engineering

Electrical engineering

This master program of professional studies offers students the opportunity to obtain comprehensive and contemporary knowledge in the field of energy, automation techniques and electronics and telecommunications necessary for application in the economy and industry.

This program aims to "supply" the local economy with the trained staff who has the practical knowledge necessary for application of modern technologies. The contents and scope of the expert knowledge, costs and time required to achieve the appropriate level of education have been optimized.



Multimedia Engineering

The program is intended for anyone who wants to upgrade knowledge in the field of audio and video technologies, electronics and telecommunications or information technologies and specialize in engineering works related to the production or transmission of audio, video and multimedia content.

Students will be trained for advanced maintenance, exploitation and installation of multimedia and communication subsystems and systems as well as following of the development of technologies in these areas.



Computer Engineering

The goal of the computer engineering program is to enable students to study, improve and integrate knowledge as well as to apply acquired knowledge in solving specific tasks and problems in the field of computer, information and communication technologies.

Students will be trained for advanced maintenance, exploitation and installation of computer and communication subsystems and systems, which is reflected in the ability to quickly and effectively solve practical problems in this field.



THANK YOU FOR YOUR ATTENTION!

