

SOFIA VOCATIONAL HIGH SCHOOL OF ELECTRONICS"JOHN ATANASSOV"

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ДОБРЕ ДОШЛИ!

WELCOME!

WILLKOMMEN!

BIENVENUE!

BENVENUTI!

VÄLKOMMEN!





We are a public vocational high school. Since its foundation in 1968, the school has been one of the educational leaders acclaimed by the National ranking System. The school offers education and training in the field of Information Technology with specialties, such as:

- *System Programming,*
- *Computers and Technology,*
- *Computer Networks,*
- *Renewable Energy Sources,*
- *Microprocessor Technology,*
- *Industrial Electronics.*





Classes



We have 1022 students, distributed in 40 classes. Our students start their education at the high school after taking entrance exams after graduating the seventh grade and study up to the twelfth grade (from the age of 15 to 19). They are enrolled in intensive foreign language training (English or German) and a second foreign language course. They obtain their diplomas only after taking matriculation exams. The school is situated in *modern, well equipped premises* in the central part of the capital city, Sofia, Bulgaria.



Profession "Technician of Computer Systems"



There are two specialties, studied in the profession of "Technician of Computer Systems": *Computer Networks* *Computer Technics and Technologies – module education*

- To observe the technological succession in the execution of a particular operation;
- To read technical documentation, reference, catalog literature and normative documents of the computer modules, computer system and the computer network; To work with measuring devices and different kinds of manual instruments;
- To identify the components of the computer system;
- To know the technical and specific characteristics of the components of the computer system (CS) and the network hardware;
- To know the functional and structure connections between the components of the CS and the computer network;
- To know the kinds of topologies for the local computer networks, cable systems and connectors;
- To know the purpose and rules for usage of instruments for cabling of local computer network;
- To build cable system and to put connectors; To test the cable system for defects;
- To know current system, applied an network software;
- To know the structure and the succession in installing of different operational systems and drivers, network hardware and network operational systems;
- To know the kinds of network peripheral devices, purposes, principles of management;
- To work in the global computer network Internet;
- To use diagnostic programs for the installed hardware, system and applied software, network hardware and software;
- To install and use antivirus programs and to install and use archive programs;
- To install and use resources for protection of the information;
- To know different methods for searching and localizing with the purpose of elimination of problems and defects in the network environment;
- To know how to establish communication and attendance to the client as preparing a written report for the completed work;
- To know his/her rights and obligations as a participant in the labor process according to the Codex of Labor, to understand the contract between employer and employee;
- To develop a business plan and to prepare finance-accounting documents.

Programmer – *module education*



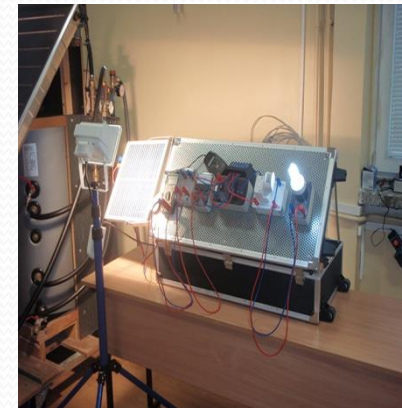
- ❖ *Computer Networks. Administration and maintaining a network. Computer system administration.*
 - ❖ *Working with the particular computer devices*
 - ❖ *Installing of Operating System and applied software. Working with external memory*
 - ❖ *Internet Programming*
 - ❖ *Working with the applications in Internet. Working with the Java language in Internet*
 - ❖ *Working with servelets – connection between HTML formats and Web servers*
 - ❖ *Working with Java Server Pages /JSP/*
 - ❖ *Working with the possibilities for access to data bases in Internet*
 - ❖ *Organization and technology of software production*
 - ❖ *Usage of the current technologies of the software production, observance of the stages for construction of information systems. Application of the rules for creation of professional style in software development- life cycle, formulating, planning.*
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- ❖ *Solving of problems in Windows environment*
 - ❖ *Working in Access environment*
 - ❖ *Working in C++ environment*
 - ❖ *Creation, reading and editing of assigned in C++ code in order to get programming code for solving of a brought –up problem or for changed exit results*
 - ❖ *Working in Visual Basic environment*
 - ❖ *Creation of structures in Visual Basic*
 - ❖ *Creation of different kinds of procedures*
 - ❖ *Working with the build-in functions*
 - ❖ *Working with the constructions controlling transition and cycle*
 - ❖ *Reading of Visual Basic code, correction of mistakes*
 - ❖ *Actualizing of given Visual Basic code in order to get changed exit results*
 - ❖ *Solving problems, connected with data base processing*
 - ❖ *Creation of a complete information system for data bases*





Renewable energy sources – module education

- ❖ Solar energy
- ❖ Photovoltaic
- ❖ Wind energy
- ❖ Biomass.



WHAT IS MODULE EDUCATION?



- Module education is an alternative of the subject form of vocational education. It is planned education.
- In vocational module education vocational competences are reached by standards of the particular modules. There is a developed curriculum for every module, in which the content studied is described in details for weeks and classes. Modules can be theoretical, practical or modules that include both theory and practice. The practical classes are carried out by dividing the class into two or three groups according to the kind of the module.



WHAT IS MODULE EDUCATION?

The evaluation is objective because it is done by a test form and is carried out through theoretical and practice tests. At the beginning of the module students are being informed for the number and the kind of the tests which are included in a particular module. The teacher develops a rating scale for every test, through which a mark is put depending on the gained points. The test is considered successfully passed at gained 50% from the maximum points. Every test has a definite weight in forming of the final mark for a particular module. Students who receive a poor mark at first test taking have the right to take the test again after one or two weeks on the appointed reserve date, declared by the teacher of the module. In case of a second poor mark, the student remains for a supplementary examination only for these tests which are not successfully taken at the reserve date.



WHAT IS MODULE EDUCATION?

- The documentation for every module– tests of the teacher, tests of the students, protocols for the current and final marks- is kept by the teacher during the whole educational process. This documentation is checked by the methodologist of the profession and is preserved one year after finishing of a particular educational module.
- The methodologists of the profession render the teachers of module education methodological assistance through the educational process. They visit particular theory and practice classes in order to give directions and if necessary to support the teachers' work with the purpose of raising the quality of the educational process and reaching better final results.



Results at the end

- The vocational education after 12 and 13 grade ends up with taking national examinations in theory and practice of the profession.
- The national examinations in theory and practice of the profession are carried out according to national examination programs in conformity with the national educational requirements for acquisition of qualification in the profession. The estimating of the professional competences in the two examinations is independently and is done according to uniform national criteria.
- Students who have successfully taken the national examinations after finished 12 grade **receive III qualification degree**. Completed vocational education is certified by **PROFESSIONAL QUALIFICATION CERTIFICATE**.



Practical education in companies – partners:

- ❖ RTS – <http://www.rts-bg.com>
- ❖ VAN Computers - <http://van-computers.com>
- ❖ PERSY - <http://www.persy.com>
- ❖ SBS АД - <http://www.sbs.bg>
- ❖ Върхови системи и технологии – <http://www.bct-bg.com>
- ❖ COMPUTEL – ООД – <http://www.cs.tu-sofia.bg>
- ❖ SKY Company – <http://www.sky.bg>
- ❖ Квазар Груп ЕООД – <http://www.kuazar-bg.com> •
KONTRAX – <http://www.kontrax.bg>
- ❖ JAR Computers – <http://www.JARcomputers.com>



Companies - partners

- ❖ "ХИС" АД
- ❖ "БИЦ – ИЗОТ" АД
- ❖ "Фесто Производство" ЕООД
- ❖ "Телетек" ЕООД
- ❖ "АТМ Девелопмънт" ООД • "ЕЛЕКТРОНИНВЕСТ" ООД
- ❖ Интернешенъл Пауър Съплай (IPS) • "ДАТЕКС" ООД
- ❖ "ПРИМА – ТЕХ – ПРО" ООД
- ❖ "Къртис – Балкан" ЕООД



Companies - partners

- ❖ РУВЕКС – <http://www.ruvex.bg>
- ❖ БЪЛГАРСКА ФОТОВОЛТАИЧНА АСОЦИАЦИЯ – <http://www.bpva.bg>
- ❖ Българска соларна асоциация – <http://www.bsa.bg>
- ❖ Електро-соларни системи – <http://www.elektrosolar.net>
- ❖ ЦЕНТРАЛНА ЛАБОРАТОРИЯ ПО СЛЪНЧЕВА ЕНЕРГИЯ И НОВИ ЕНЕРГИЙНИ ИЗТОЧНИЦИ - <http://senes.bas.bg>
- ❖ СЪНСЪРВИЗ – <http://www.sunservice-bg.com>

Awards in the field of electronics and sport.



Participation in exhibitions and Bulgarian National television



Inter Expo Center



BNT



Sofia Vocational High School of Electronics “John Atanasov” is a beneficiary in the following programs:



- **“SUCCESS”** is an acronym meaning a school that through self-affirmation and training leads to European horizons. The project is co-financed by the European Social Fund of the European Union. In the school year 2014-2015, 26 school clubs were formed with the participation of 269 students who, in their free time, discussed interesting topics or enlarged their professional training.





PROJECT ACTIVITIES

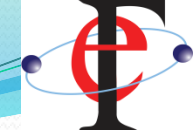
Sofia Vocational High School of Electronics “John Atanasov” is a beneficiary in the following programs:

❖ ***School Practices”*** – the project aims at improving the quality of vocational education and training, facilitating the access on a national level to the practical training of students through more and better opportunities for practice in a real working environment. Last year, 414 students of VHSE were certified in this program, having worked for 240 hours in different companies or universities in the capital city.



❖ ***Management for efficient professional education”*** is a project whose main objective is to develop a system of indicators, measuring the efficiency of the process of the vocational education as well as to develop a model of a unified management system of vocational education. The next step is devising mechanisms for operation of the system.





PROJECT ACTIVITIES

Sofia Vocational High School of Electronics “John Atanasov” is a beneficiary in the following programs:

- **“Development of the vocational education and training in VHSE in cooperation with employers”** is a project in which we have as a partner “Microsoft Bulgaria”. Microsoft IT Academy provides the latest software products of Microsoft, opportunities to work in laboratories, access to a huge number of courses and online resources of Microsoft. The students get Microsoft certificates, which guarantees knowledge and skills, associated with the most modern information technologies.

10 teachers with Microsoft certificates



Windows Server, SQL Server, Microsoft Expression Studio Ultimate, .NET Framework

PROJECT ACTIVITIES

Sofia Vocational High School of Electronics “John Atanasov” is a beneficiary in

the following programs:

- **Build Up Skills** - “Energy Training for Professionals in the Building Sector in Bulgaria”. The main goal of the project is to create a National centre of knowledge regarding the energy efficiency and the renewable energy sources used in buildings and to develop a set of technological competence for the trainees in the specialty “Renewable Energy Sources”.



Project ACTIVITIES

- The cooperation of VHSE “John Atanasov” with “**Hewlett-Packard Bulgaria**” is another project whose main objectives are training students and teachers from experts in hardware and software area, as well as from specialists in business management in the IT industry. School visits to the global laboratory of HP in the country are also planned.



- We also work in the framework of the National Program “Information Computer Technologies in Education”, supported by the Ministry of Education and Science. As a result, a Virtual Private Server is built as well as a Technology Park with a full range of technologies from the fields of computer networks. There is infrastructure for online training



Forms of collaboration

**Hewlett Packard
Enterprise**



A representative group of students made a school visit to the global laboratory of HP for Central and Eastern Europe.



Two our students in Izmir, Turkey
with their
ELECTRO-PV MARS ROVER.
TRT was interesting with them!
The sponsor is



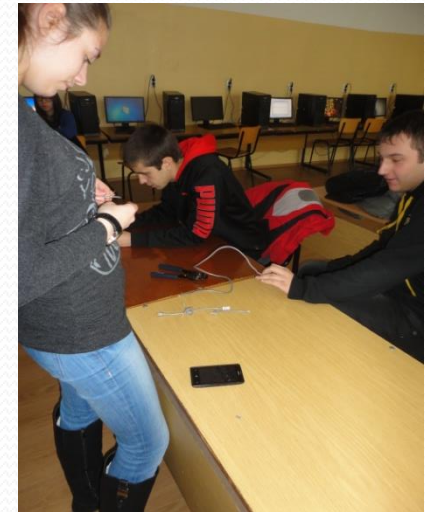
You can do a test-drive!
If it's sunny – it will be FREE!
If it's not – I am sorry,
you will pay 0.10 euro per kWh! 😊





CISCO

- The “Cisco Network Academy” in our school was created in 2012 as a daughter Academy at Sofia University. It offers courses following the curricula of Cisco Systems: ***CCNA Routing and Switching***.





International projects

We have experience in initiating Leonardo da Vinci projects from the European Commission Lifelong Learning Programme / KA1/, Intelligent Energy - Europe and another programs with a total of more than 250 students' and teachers' mobilities and trainings in Germany, Great Britain, Sweden, Austria, Check Republic.

The partner's target group consists of high school teachers and high school students from 15 to 18 years old.





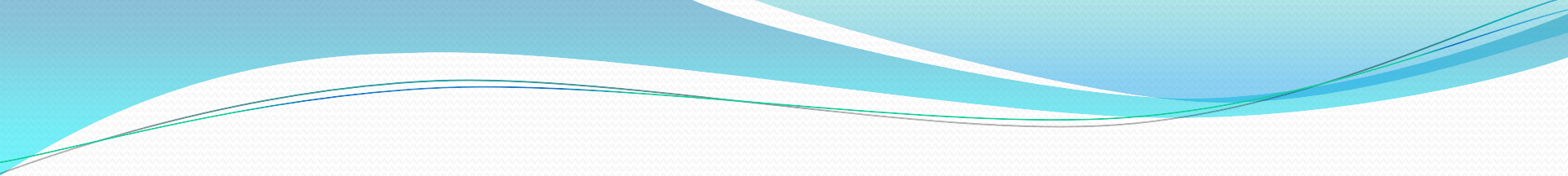
2016-2017

Mobility is also the agenda in our plan of developing the institution and broadening the horizon and possibilities to our students with professional and other educational mobility / KA1/. We have approved Erasmus+ Project for teachers' and students' mobility with the cooperation of WBS Training AG, Germany and ADC College, Great Britain for professional training in a real working environment /KA1/.



The Model of the Dual System of Vocational Training in ICT sector – European Horizons for Trainees and Trainers in VHSE “John Atanasoff

- The project is in harmony with the key activity 1 supported by the European Programme Erasmus+.
- The participants in the projects are three groups. The first one consists of 8 initiative trainers.
- One of the main goals of the project is to increase the qualification, the professional competences of the pedagogic specialists with regard to the teaching methodology of the subjects in vocational training that will be carried out in Bulgaria. The teachers who can apply to participate in the project are those who are responsible for working out strategies for the development of the vocational training, for the adoption and implementation of a new methodology of the subjects taught in vocational training, for the preparation of tests, methods / scales of assessment, more effective training methods for acquiring certificates

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- After the implementation of the mobility of the teachers and the dissemination of the results, in 2017 a selection will be made of the second group of participants in the project – 22 students who will be sent to a mobile practice to Dresden/ London in the field of computer technologies – “IT Networking and creating a web page”



OPEN FOR PARTNERSHIP

We will be glad to have you as a partner organization for Strategic partnership in Erasmus+, being engaged in youth work and non-formal learning for young people.

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THANK YOU FOR THE ATTENTION!

The presentation is made by: eng. Dzana Ivanova – MA
senior teacher in professional training

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