

# **Department of Computer Science & Engineering**

**at Technical University of Varna**

[\*http://cs.tu-varna.bg\*](http://cs.tu-varna.bg)

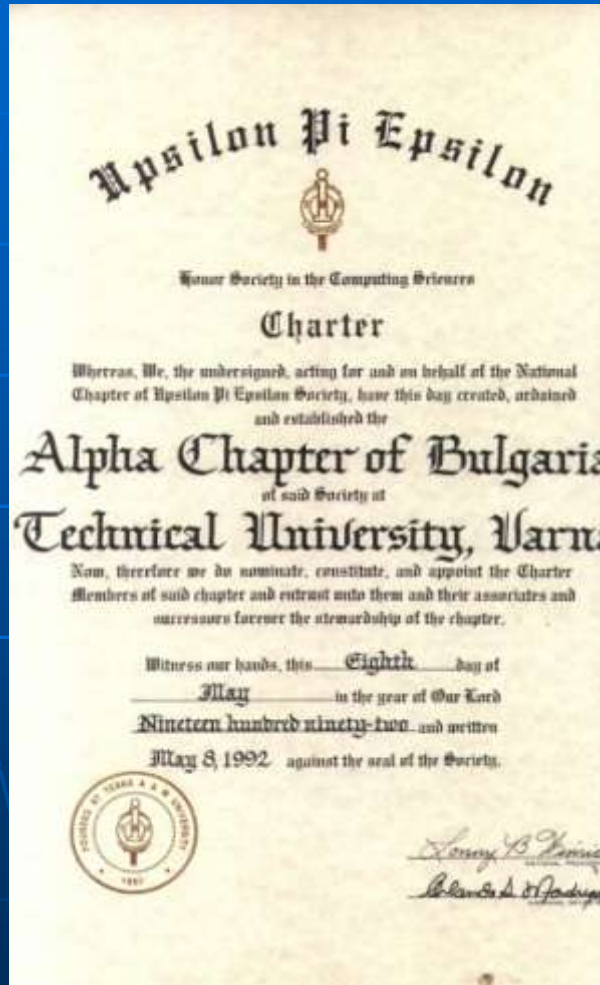
# *Our Mission*



With 45 years of history our department has trained more than 4,000 professionals.

We offer the specialty  
“Computer Systems and  
Technologies”

# Membership in International Organizations





# *After Graduating*

Graduates in Computing are competitive professionals. The students can work as:

- ❑ Computer hardware and software engineers;
- ❑ Software developers;
- ❑ Systems and network administrators;
- ❑ Internet programmers and Web designers.

# *Specializations*

- ❑ Computer systems and networks;
- ❑ Software development using C++, C#, Java;
- ❑ Data base administration and applications based on Oracle, Access, SQL Server;
- ❑ Multimedia systems;
- ❑ Artificial Intelligence systems;
- ❑ Internet applications.

The Department has participated in many international projects of European Community programs ERASMUS+, LEONARDO, etc.



# Academic Degrees

## ***Bachelor of Science (B.Sc.)***

Term of study - 4 academic years.

Having acquired this degree, you can work as a computer engineer.

## ***Master of Science (M.Sc.)***

Term of study – 1.5 academic years after the B.Sc. degree.

Master's programs education and training focuses on practical and theoretical aspects of various leading IT fields.

## ***Doctor of Philosophy (Ph.D.)***

Our department provides full-time and half-time doctoral study. Acquiring this degree involves research activity and thesis development.



# *Guarantees for Success*

The Computer Science and Engineering Department is regularly improving its curricula and syllabuses to reflect most adequately recent advances in computer science and information technologies. Our academic programs improvements are made considering the demands of the IT labor market, the latest directions of IEEE and ACM and the current academic programs of leading universities worldwide



# *Scientific and Research Directions*

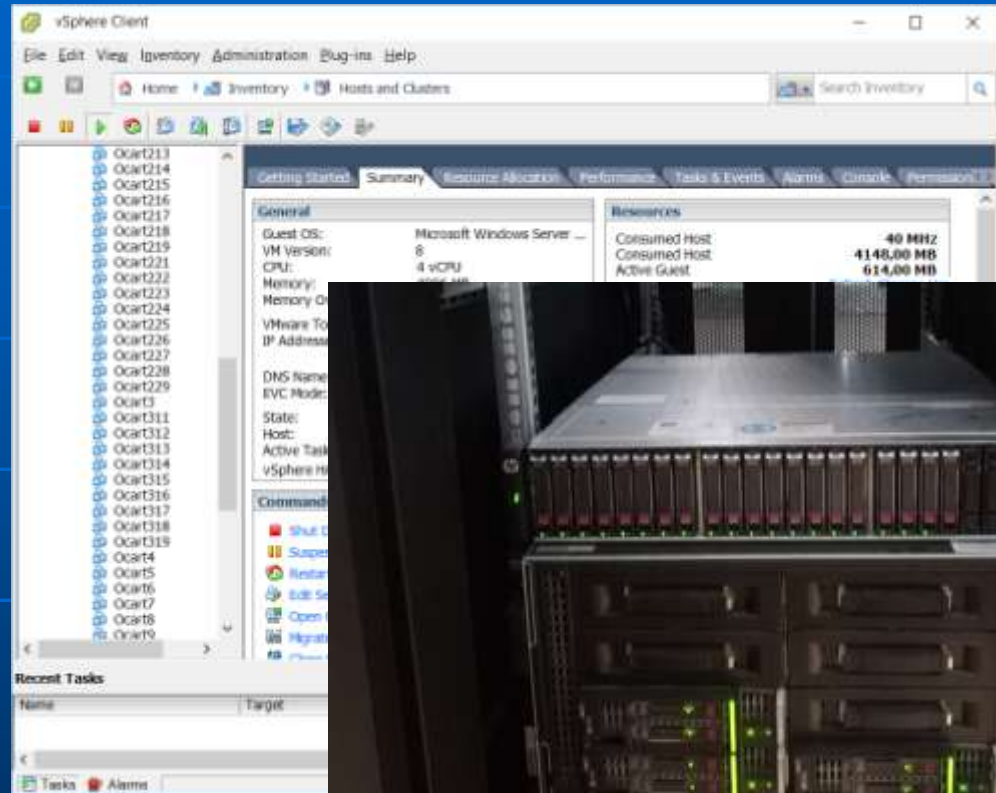
- ❑ Parallel and Distributed Computing;
- ❑ Computer Networks and Applications;
- ❑ Expert Systems and AI Systems;
- ❑ Banking Systems for Market, Credit and Operational Risk Evaluation;
- ❑ Distributed Simulation Tools and Models;
- ❑ Programming Internet Technologies;
- ❑ Reliability and Security of Computer Systems and Networks;
- ❑ Cryptographic Methods for Information Protection and Network Security;
- ❑ Data Bases and Information Systems;
- ❑ Parallel Programming Tools.

# *Laboratories and Equipment*

The department has 13 teaching labs with 127 computer workstations and servers. The laboratories are equipped with modern equipment, sixth of them with specialized equipment.

# Local cloud e-infrastructure

Datacenter cluster with HP ProLiant Gen8 servers and VMware infrastructure.



# *Laboratory of Linux and Computer Networks*

The laboratory of Linux and computer networks was established by a contract with the Intergovernmental Agency for Francophony.





# *Sun Microsystems Laboratory*

The laboratory is equipped with powerful multiprocessor server virtual machine infrastructure and X-terminals of the Sun Microsystems.



# *Laboratory of Microcontrollers Jonson Controls*

The laboratory is equipped with Johnson Controls company with computers, microcontroller modules and various management units.



# *Laboratory of Virtual Infrastructures and Mobility*

The laboratory is equipped with a TabletPC in a joint project with Hewlett Packard company.



<http://hpgrant.cs.tu-varna.bg>

# *Laboratory of Programmable Logic*

The laboratory is equipped with ASIC Depot company with hardware and software modules for design and simulation based on FPGA and Verilog technologies.





# *Laboratory of Computer Networks*

The laboratory is equipped with Reichle&De-Massari company with passive network equipment. The active equipment consists of Cisco routers and switches.





# *Cisco Networking Academy*



The department was established Cisco Networking Academy, which made preparation for internationally certificates of Cisco Systems in computer networks and Internet.



<http://ciscoacademy.tu-varna.bg>

<http://cs.tu-varva.bg>

# *Microsoft Imagine Academy*

The Department is a member of Microsoft Imagine Academy Program, which allows students to receive and use the licensed software from Microsoft Co.



<http://msacademy.tu-varna.bg>

# Journal of the Faculty



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## COMPUTER SCIENCE AND TECHNOLOGIES



Bulgaria Communications Chapter  
Faculty of Computing & Automation



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## ***Department of Computer Science & Engineering***



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