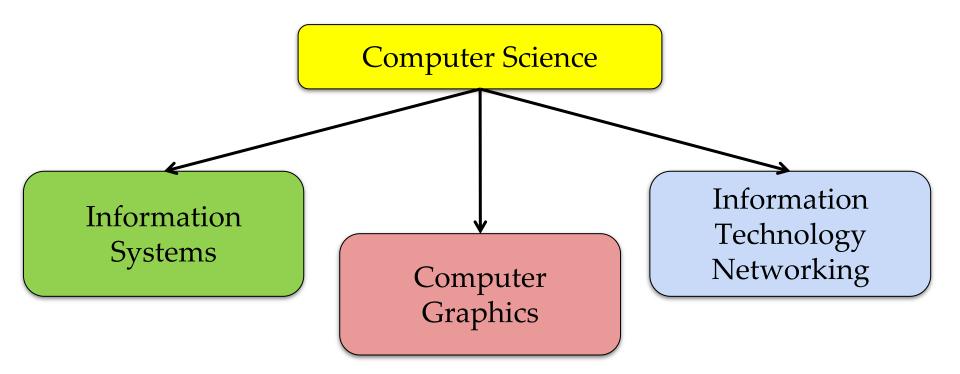


2nd degree??

Politechnika Świętokrzyska

WYDZIAŁ ELEKTROTECHNIKI, AUTOMATYKI I INFORMATYKI

Computer Science – 1st degree specializations



Information Systems

Designed for students interested in developing information systems, internet applications, databases.

Students acquire skills concerning development, implementation and testing various types of internet, mobile and desktop applications. Graduates are fully trained for effective work in ITrelated jobs.

Information Systems – courses

Programming:

- Web Application Development
- Concurrent Programming
- Mobile applications
- Computer graphics
- Team project

General topics:

- Methods of computation
- Intelligent systems
- Introduction to Software Engineering
- Information systems engineering
- Management Information Systems
- Modeling and analysis of business processes

Information Systems – courses

Selectable specialist courses, among others:

- User interface design
- Computer Networks Administration
- Introduction to human-computer interaction
- Modeling and visualization of physical processes
- Computer systems security
- Introduction to geoinformatics systems
- Application of artificial neural networks in computer science

Information Systems – laboratories



Computer Graphics

Designed for students interested in programming of computer graphics, creating computer games and visualizations, processing data with GPU and related topics.

In addition to courses strictly related to the specialization, includes general IT-related courses.

Computer Graphics – courses

www.tu.kielce.pl

Programming:

- Basics of the computer graphics
- Algorithms for computer graphics
- Computer graphics programming
- Web Application Development
- Concurrent Programming
- Mobile applications
- Team project

General topics:

- Software Engineering
- Methods of computation
- Intelligent systems
- Digital signal processing
- Architecture of graphics processor units
- Speech and Image Recognition Systems

Computer Graphics – courses

Selectable specialist courses, among others:

- A Basis of Composition
- Multimedia Systems
- User interface design
- Computer Networks Administration
- Introduction to human-computer interaction
- Physics in animation and computer graphics
- Introduction to geoinformatics systems
- Application of artificial neural networks in computer science



CENWIS Virtual Reality Laboratory

Laboratory equipped with state-of-the-art hardware, such as:

- Multi-directional threadmills
- VR googles: *HTC VIVE PRO*, *Oculus Quest* 2
- AR glasses: Microsoft HoloLens2, Epson Moverio BT-300

May be used for diploma theses, team projects, etc.