

Faculty of Information Technology

The Faculty of Information Technology at the University of Pannonia offers study programs in IT and IT combined with advanced technologies. It is characterised by long-term professional cooperation with prestigious international companies. The research and R&D activities support the educational programs of the Faculty cutting edge problems and the continuous renewal of the curriculum.

The Faculty considers establishment of students' successful professional career as its main task by putting a special emphasis on elite training, talent supervision program, and education of a new generation of highly skilled experts. Besides gaining up-to-date knowledge of their field, undergraduate and graduate students also become experienced in project- and teamwork via practical experiences working for companies of international standards. Throughout their years of university studies, students regularly participate at national and international contests of their field, at scientific conferences and competitions, usually reaching outstanding results. Besides granting a degree to the students, one of the main objectives of the Faculty is to prepare them for a successful professional career. Those who gain entry to the university, by the end of their studies, become highly qualified specialists in their own professional field.

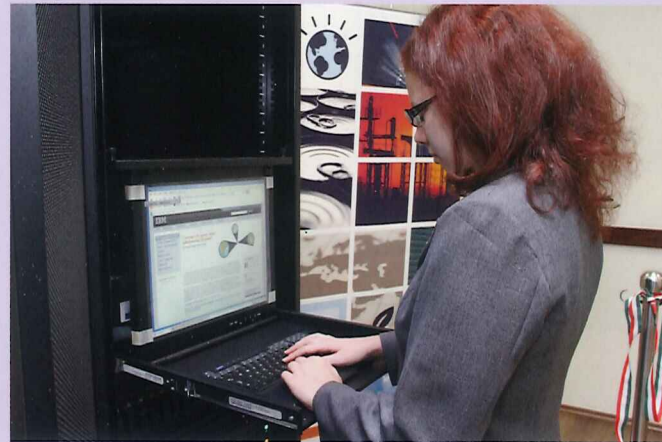
The Faculty offers degree programmes in English as follows:

- BSc in Computer Science
- PhD in Information Technology and its Applications
- PhD in Molecular- and Nanosciences

BSc in Computer Science

Duration: 6 semesters
Number of credits: 180
Tuition fee: 4000 EUR/year

The aim of the study is to train computer scientists who are able to develop, install, maintain and operate software oriented IT tools and systems, perform and coordinate research and development activities.



Core modules:

- mathematics and economy
- computer science (theory of computation, data structures and algorithms, computational complexity, artificial intelligence)
- programming (programming languages and techniques, software technology)
- information systems (databases, design and modeling, web technologies)
- computer systems (computer architectures, computer and telecommunication networks, operating systems)



Doctoral Programs

Duration: 6 semesters
Number of credits: 180
Tuition fee: 5000 EUR/year

The Doctoral School of Information Science and Technology and the Doctoral School of Molecular- and Nanotechnologies play important roles, they ensure sustained high standard research, project activities, and furthermore, the next generation of professionals for the departments.

The research activity of the doctoral schools and the Faculty is built on the experience of professors who have spent considerable time in some of the most respected universities in Europe and overseas, and who cherish international relations with the eminent institutions of higher education in the European Union, the USA, Japan, India, Australia and the Republic of South Africa mainly for common research work and professional cooperation. The significant part of research and R&D activity of the Faculty is carried out in the field of technical, IT and natural sciences, and in case of multidisciplinary and interdisciplinary research projects, the above mentioned three areas constitute the essence of research tasks. A special emphasis is put both on basic research and R&D, and scientific results deriving from basic research are exploited in R&D activity directly on the market.



PhD in Information Technology and its Applications

Educational and research program of the Doctoral School of Information Science and Technology reflects a broad and diverse spectrum in the field of IT and its technical applications, which flexibly adjust to the current educational and research demands. In its scientific workshops, research of international quality is carried out with the leading of internationally recognised and influential professors.

Main research areas of the doctoral school are as follows:

- Image perception, visualisation and image processing
- Medical informatics systems
- System and control theory
- Optimisation of integrated systems and processes
- Deterministic and stochastic dynamical system models
- IT applications of combinatorics.

PhD in Molecular- and Nanosciences

The Doctoral School of Molecular- and Nanotechnologies offers multidisciplinary training in nanoscience and nanotechnology. The research topics in the School cover a broad spectrum of themes from molecular biology through materials science and engineering to nanophysics.

The doctoral program focuses on the following research areas:

- MEMS and NEMS technology
- functional micro- and nanoparticles
- nanocomposites and nanostructured coatings
- development of nanosensors and new sensing principles
- nanocatalysts
- bionanotechnology.



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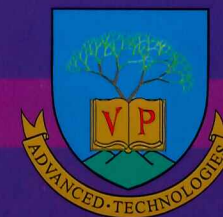
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STUDY PROGRAMS IN ENGLISH
OFFERED BY THE
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