COMPUTER ENGINEERING

DESCRIPTION

The final effect of studies at the Master level is obtaining knowledge, skills and qualifications in accordance with "Teaching Standards" in the field of Computer Science. Students receive extended knowledge in the area of specialization. Students who finished study will be able to: use various methods and techniques for problems interpreting, formulate and solve specific problems related to computer science, become team work leaders. Additionally they will have obtained fluent and creative knowledge application in the area of specialization, which means mathematical models designing, problems formulating and solving, problem oriented informatics systems analysis and testing.

ABOUT STUDIES

- **Duration:** 4 semesters
- Mode of study: Full time
- **Field of study:** Computer Science
- Language of instruction: English
- **Start date:** 1st October 2012
- Programme coordinator: Jan Kwiatkowski, Ph.D.

JOB PROSPECTS

Employment in informatics companies and organizations which apply informatics tools and system at the specialists and manager positions.

ENTRY INFORMATION

Required: Bachelor Degree, preferably in computer science or in a related area. Applicants with a bachelor degree outside of computer science must demonstrate significant proficiency in computer science. Any area of requirements can be satisfied through courses completed at the bachelor level or by suitable experience.

Each application is assessed individually on its merits. If in doubt, please contact the Admission Officer.

- **Deadline for application:** 15th July 2012
- English: TOEFL – 550 points or IELTS – 6 points
- Tuition fee:
  Non EU/EFTA students: 4000 EUR per year
  EU/EFTA students: no tuition fee
- Application fee:
  Non EU/EFTA students: 200 EUR
  EU/EFTA students: 22 EUR

CONTENT

Within this program students must complete 1020 hours of courses equivalent to 120 credits (ECTS) and have to write a degree thesis under the supervision of a faculty member. The programme consists of lectures and practical activities (laboratories, tutorials, seminars and projects).

SEMESTER 1

- Advanced Databases
- Advanced Topics in Artificial Intelligence
- Information System Modeling and Analysis
- System Modeling and Analysis
- Foreign language (Polish Language course)

SEMESTER 2

- Parallel and Distributed Computing
- Advanced Computer Network
- Software System Development
- Foundation of Knowledge Engineering

SEMESTER 3

- Application and Challenges of Computer Science
- Preparatory project/seminar

Optional courses/select two of them

- Parallel Computer Architecture
- Advanced Computer Graphics
- Digital Image Processing
- Operational Research in Computer Science
- Data Warehouses
- Multimedia Information Systems
- Expert Systems
- User Interface Development

SEMESTER 4

- Computer Ethics
- Diploma Seminar
- M.Sc. Thesis

Questions? Please contact Admission Office
e-mail: admission@pwr.wroc.pl, phone: +48 71 320 37 11, +48 71 320 31 70, +48 71 320 37 19, +48 71 320 44 39