

Faculty of Electronics, Telecommunications and Informatics

Gdańsk University of Technology



Place where new ideas are born

- ❑ History of changes
 - Faculty of Communications (1952)
 - Faculty of Electronics (1966)
 - Faculty of Electronics, Telecommunications and Informatics (1995)

- ❑ Organizational structure
 - Chairs (1952) – Institutes (1972) – Departments (1992)

- ❑ Rights of conferring academic degrees
 - PhD degree right for 5 research fields
 - DSc (habilitation) degree right for 3 research fields

- ❑ Institutional accreditation of Polish Ministry of Science & High Education (MSHE, 2012)

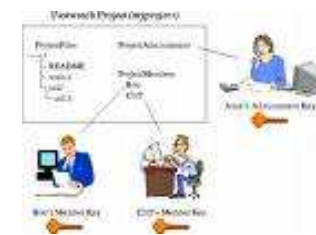
- ❑ Since 1992 ETI has constantly 1st (A) scientific category granted by Polish Ministry of Science & High Education
- ❑ 2nd place in Poland within all university faculties in R&D in electrical, electronic and computer engineering (MSHE categorization, 2013)
- ❑ Faculty offers 17 specializations on 4 basic education streams :
 - Electronics and Telecommunications
 - Informatics
 - Automatic Control and Robotics
 - Biomedical Engineering
- ❑ Since 2004 ECTS system has been used for all promotions



- Faculty is within three biggest faculties of Gdańsk University of Technology
 - At present, aprox. 3500 students
 - Within 60 years of history the Faculty issued more than 13 000 BSc and MSc diplomas
 - Academic staff of ETI: ~200, incl.:
 - 20 Professors,
 - 25 DSc PhD Associate Professors,
 - 120 PhD Assistant Professors.



- ❑ ETI actively participated and participates in numerous international projects:
 - Tempus
 - Copernicus
 - Esprit
 - Eureka/Celtic
 - 5th, 6th & 7th Framework Programmes of European Union
 - Other EU programmes (COST, Artemis, ...)
 - NATO programs
 - Socrates-Erasmus students exchange
 - ...



- The Faculty keeps close relations with industrial environment
 - Pomeranian ICT Cluster „Interizon” – representatives of over 100 leading ICT companies, established and administered by FETI
 - numerous implementations of scientific research results in the industry
 - adjustment of syllabus to real market requirements
 - scholarships established by future employers



- Faculty of Electronics, Telecommunications and Informatics offers to students:
 - Full-time BSc and MSc studies
 - Automatic Control and Robotics
 - Intelligent Decision Systems
 - Computer-Controlled Systems (*MSc Level in English*)
 - Electronics
 - Microwave and Wireless Communication Engineering
 - Computer Electronic Systems (*MSc Level in English*)
 - Optoelectronics
 - Microelectronic Systems



- Telecommunications
 - Sound and Vision Engineering
 - Radio Communication Systems (*MSc Level in English*)
 - Electronic Marine Systems
 - Communication Networks

- Informatics
 - Distributed Applications and Internet Services (*MSc Level in English*)
 - Intelligent Interactive Systems
 - Systems Engineering and Databases
 - Modeling and Programming of Information Systems
 - Computer Networks
 - Geoinformatic Systems



- Biomedical Engineering
 - Informatics in Medicine
 - Electronics in Medicine
 - Chemistry in Medicine
(together with Chemical Faculty)
 - Physics in Medicine
(together with Faculty of Applied Physics and Mathematics)



- Extramural BSc studies
 - Informatics
 - option: Applied Informatics

- Extramural MSc studies
 - Informatics
 - option: Information Technologies
 - option: Systems Engineering
 - option: Computer Networks

- Ph.D. studies (in English)
 - Electronics
 - Informatics
 - Telecommunications
 - Automatic Control & Robotics
 - Biomedical Engineering



- ❑ Obligatory course during two semesters for all MSc students
- ❑ >100 project groups of 3-5 students
- ❑ Skills developed:
 - knowledge of project approach principles
 - team work ability
 - ability of work in indefinite environment
 - ability of communicating and documenting work results
 - understanding of project documentation role
- ❑ Internet system for monitoring each project team progress



Companies established by our graduates



- IVO Software
the best speech synthesizer in the world; just taken over by Amazon
- Intel Poland
electronics, embedded software
- Young Digital Planet
educational software
- Bilander IT
data warehousing, business analytics
- DGT
telecommunication solutions
- Comarch
software for management
- Datera
telecommunication solutions
- Ask.com
(established by T. Imielinski, co-author of Data Mining)
- ...



A glimpse of the future...

Submerged Spatial Visualization Lab



- ❑ A transparent sphere (3 m in diameter) with enough room to hold one person
- ❑ High resolution displays placed all around the sphere
- ❑ Combined with head-on lens creates fully interactive and explorable 3D world



Possible applications

- ❑ Virtual training of soldiers or policemen/firemen/inspectors/...
- ❑ A short trip to the past or to the future
- ❑ Close look on the stars and outer space
- ❑ Rehabilitation purposes
- ❑ Entertainment
- ❑ ...



You are welcome to cooperation!



www.eti.pg.gda.pl