

Faculty of Automatic Control, Electronics and Computer Science

course in English:

AUTOMATION AND ROBOTICS, ELECTRONICS AND TELECOMMUNICATIONS, INFORMATICS (interdisciplinary)

bachelor level

Duration of studies - 3.5 years / 7 semesters

Beginning of course - winter semester

Obtained degree – BSc (Eng.)

Admission criteria – mathematics and additional disciplines to be chosen from extended mathematics, physics and astronomy, chemistry, biology, computer science.

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at: www.aei.polsl.pl;

http://www.polsl.pl/Wydzialy/RAu/Documents/studia_1.pdf;

http://studyinenglish.polsl.pl/Documents/Faculty%20of%20Automatic%20Control,%20Electronics%20and%20Computer%20Science%202012_1.pdf

master level

Duration of studies - 1.5 year / 3 semesters

Beginning of course - spring semester

Obtained degree - MSc

Admission criteria – bachelor (engineer) degree in engineering – information technology / computer science, automation and robotics, electrical engineering, mechanical engineering and similar

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at:

http://studyinenglish.polsl.pl/Documents/Faculty%20of%20Automatic%20Control,%20Electronics%20and%20Computer%20Science%202012_1.pdf

specialisations at both undergraduate (bachelor) and master levels:

- automatic control
- electronics and telecommunication
- informatics

GRADUATE's PROFILE:

Graduates of the course have possessed knowledge in mathematics, physics, theory of computer science and engineering sciences, electrical engineering, control theory, microprocessing systems, databases, computer systems and artificial intelligence. Thanks to the knowledge of professional English, the graduates are prepared to work both in Poland and worldwide, finding employment as designers and users of automation systems and robotic technology and machine intelligence. Skills learnt allow the alumni to work as programmers (informaticians), specializing in databases' design and computer distributed systems. They are also prepared to creative work in the field of construction engineering and electronic components, hardware and utility for electronic equipment used in the telecommunications equipment, measurement, regulatory and in medical technology. A graduate of the interdisciplinary course receives the diploma in chosen specialisation, i.e. one of from computer science, automation & robotics or electronics & telecommunications. Such a diploma is an equivalent to a diploma obtained by graduates of classical (not interdisciplinary) studies in similar fields.

Faculty of Civil Engineering

course in English:

CIVIL ENGINEERING

bachelor level

Duration of studies - 4 years / 8 semesters

Beginning of course - winter semester

Obtained title – BSc (Eng.)

Admission criteria – mathematics and additional disciplines to be chosen from extended mathematics, physics and astronomy, chemistry, biology, computer science.

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at:

http://www.polsl.pl/Wydzialy/RB/js/plany_studiow/S1/S1_12_SE.html

http://studyinenglish.polsl.pl/Documents/Faculty%20of%20Civil%20Engineering_2012_1.pdf

specialisation at bachelor level: structural engineering

master level

Duration of studies - 1.5 year / 3 semesters

Beginning of course - winter semester

Obtained title - MSc

Admission criteria – bachelor (engineer) degree in civil engineering

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at:

http://studyinenglish.polsl.pl/Documents/Faculty%20of%20Civil%20Engineering_2012_1.pdf

specialisations at master level:

More information on particular subjects and scheme of the course available for following specializations at:

- Structural Engineering - Bridges: http://www.polsl.pl/Wydzialy/RB/js/plany_studiow/S2/S2_12_SE_BR.html
- Structural Engineering - Civil and Industrial Structures: http://www.polsl.pl/Wydzialy/RB/js/plany_studiow/S2/S2_12_SE_CIS.html
- Structural Engineering - Geotechnic and Underground Structures: http://www.polsl.pl/Wydzialy/RB/js/plany_studiow/S2/S2_12_SE_GUS.html

GRADUATE's PROFILE:

Graduates of the Civil Engineering course receive complete education in general and technical sciences necessary for all the functions in civil engineering, not only in design process, management and organization of construction works, technical and financial supervision, but also in the field of research. Respectively to chosen specialization of studies, graduates are prepared for professional activities in following range of aspects:

- analysis and design of urban and industrial structures,
- organization and management in construction sites for urban and special structures,
- maintenance, monitoring, modernization and revitalization of existing structures (including historical monuments),
- organization and management of materials for construction and precasted elements,
- design and realization of process in construction and technological systems,
- environmental issues in civil engineering,
- design and construction of linear infrastructure, special structures, transport infrastructure and earthworks,
- general and architectural design,
- construction of urban special structures, underground structures and technical infrastructure,
- planning and conducting works of urban engineering in cooperation with spatial planning, urban planning and transportation systems planning.

The master course opens to bachelor graduates the door to world of science in Structural Engineering.

The best master graduates may continue studies at the 3rd cycle of studies (doctoral course).

The diploma obtained at the SUT's Faculty of Civil Engineering proves high professional qualifications, allowing for conscious and creative work in various areas of civil engineering in Poland and worldwide.

Faculty of Chemistry

course in English:

CHEMICAL TECHNOLOGY AND ENGINEERING

bachelor level

Duration of studies - 3.5 years / 7 semesters

Beginning of course - winter semester

Obtained title – BSc (Eng)

Admission criteria – mathematics and additional disciplines to be chosen from: extended mathematics, physics and astronomy, chemistry, biology, computer science.

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at:

<http://studyinenglish.polsl.pl/Documents/Faculty%20of%20Chemistry.pdf>

specialisation at bachelor level:

- Chemical Technology and Engineering

master level

Duration of studies - 1.5 year / 3 semesters

Beginning of course - spring semester

Obtained degree – MSc

Admission criteria – bachelor (engineer) degree in chemistry, chemical technology, chemical engineering, biotechnology.

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at:

<http://studyinenglish.polsl.pl/Documents/Faculty%20of%20Chemistry.pdf>

specialisations at master level:

- Process engineering and green chemical technologies
- Nanomaterials and fine chemicals

GRADUATE's PROFILE:

Graduates possess knowledge of both chemical & process engineering, and technology, enhanced with environmentally friendly processes, technologies and nanomaterials. Good knowledge of technical English is something not to be forgotten. They are familiar with chemistry and technology, construction, operation and design of chemical equipment, process control analysis and production management. With a knowledge of chemical technology and process engineering, they are prepared to conduct research, design and development work as well as implementation of processes and products practice. Graduates can work in macro-field chemical and allied plants producing advanced materials, engineering companies, design offices, etc., especially in English-spoken business and technical environments.

Faculty of Energy and Environmental Engineering

course in English:

ENERGY ENGINEERING

bachelor level

Duration of studies - 3.5 years / 7 semesters

Beginning of course - winter semester

Obtained title – BSc (Eng)

Admission criteria – mathematics and additional disciplines to be chosen from: extended mathematics, physics and astronomy, chemistry, biology, computer science.

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

master level:

Duration of studies - 1.5 year / 3 semesters

Beginning of course - spring semester

Obtained degree – MSc

Admission criteria – bachelor (engineer) degree in mechanical engineering, energy engineering, chemical engineering

More information on entry for foreign candidates available at: <http://studyinenglish.polsl.pl/Pages/Requirements.aspx>

More information on particular subjects and scheme of the course available at:

<http://www.polsl.pl/Wydzialy/RIE/bibplanystudiow1/Kierunek%20-%20Energy%20engineering%20KIC/Specialno%C5%9B%C4%87%20-%20Clean%20Coal%20Technologies/PLAN%20STUDI%C3%93W%20II%20stopnia%20-%20studia%20stacjonarne%20-%20od%202012-13.pdf>

specialisations:

- Clean coal technologies
- Computer aided energy engineering

GRADUATE's PROFILE:

Graduates will possess broad knowledge of energy generation and the newest energy technologies, knowing the possibilities and modern state of art in the practical use of solar, wind, hydro- and geothermal energy. They will be able to work on solutions of problems dealing with the increasing need for energy in cities, neighbourhoods and single houses. They will also have knowledge of diagnosis and operation of machines and equipment as well as the principles of energy management in large industrial plants, small business and communities. Graduates will be prepared to work in companies operating in the field of energy systems and facilities related to the production, processing, transmission and distribution of energy like power stations, power plants and many other facilities in the fields of energy-related problems. They may also be specialists in the energy issues in the local government units. The EU needs specialists in the Clean Coal Technologies area as:

- (i) coal is an abundant energy resource,
- (ii) is available at a fairly stable price and comes from many international suppliers, thus guaranteeing energy security.

The climatic goals, however, require that the production is sustainable, especially where environmental aspects are concerned.

New emerging technologies in this field will require new specialists educated in this way that they not only understand but may also apply and further develop methods which may use coal to produce energy in environmentally friendly way. Such specialists should have knowledge in energy technologies focusing, respectively, on low-emission combustion, rational use of energy and chemical aspects. The programs are then broadened to obtain a specialist in CCT, supplemented by overall knowledge in energy problems including also renewable field.