

PROGRAM GUIDE

FOR INTERNATIONAL
CANDIDATES 2021–2022





STUDY PROGRAMS

TAUGHT IN ENGLISH

Arts & Humanities

- Bachelor in Architecture
- Master in Architecture
- Master in Spatial Development

Business & Economics

- Bachelor in Management
- Master in Economic Analytics
- Master in Management

Computer Science

- Bachelor in Data Engineering
- Master in Automation, Cybernetics and Robotics
- Master in Electronics and Telecommunications
- Master in Informatics

Engineering & Technology

- Bachelor in Energy Technologies
- Bachelor in Mechanical Engineering
- Master in Civil Engineering
- Master in Environmental Engineering
- Master in Mechanical Engineering
- Master in Ocean Engineering

Physical Sciences

- Bachelor in Green Technologies
- Master in Green Technologies
- Master in Nanotechnology

DEGREE COURSES DESCRIPTIONS

Bachelor in MANAGEMENT (BIM)

Faculty of Management and Economics

Degree to be obtained: Bachelor

Duration: 3 years (6 semesters)

Language: English

ECTS points: 180 ECTS



Program description

BiM is a comprehensive, practice-relevant three-year degree. It is unique in Poland and spans across all spheres of business and management. It provides knowledge that helps to build comprehensive managerial competencies. Professionally qualified managers are the key drivers of trade, commerce, and public service, making decisions to help shape the world around them. What kind of qualities should they have? First of all, they should be knowledgeable about the contemporary economy and should be able to put this knowledge into use when managing companies. They should also be good organizers. Good managers should be creative, responsible, communicative, and entrepreneurial. That is why BiM is a place for people who are full of initiative and original ideas and can communicate in foreign languages. BiM is designed to give you the knowledge, confidence, and choices you need to establish a rewarding and exciting career in a wide variety of settings.

Entry requirements

High school graduates with a school leaving certificate at advanced level may apply for the bachelor programs.

Career opportunities

Graduates are prepared to work in:

- national and international companies of diverse profile,
- consulting companies,
- project teams
- administration,
- NGOs.

Bachelor of Science in Architecture

Faculty of Architecture

**Degree to be obtained: Bachelor
(Engineer, Architect)**

Duration: 4 years (8 semesters)

Language: English

ECTS points: 240



Program description

The curriculum is designed for people wishing to study architecture. It has been developed to educate future architects both in technical knowledge and to develop their awareness within esthetic and human-oriented values. It allows the students to develop the skills related to shaping urbanised areas both as to elements of little architecture, public utility facilities and multi-spatial urban projects. The courses within the study curriculum are based on the knowledge in the disciplines originating from technical sciences: architecture, urbanism, construction and arts or history of art. The main purpose of education is to prepare the graduates — engineers architects for their professional career and for deliberate and competent participation in shaping the areas that constitute the living space of individuals and groups.

Entry requirements

- Secondary school certificate
- Motivation letter
- Portfolio
- Good mathematics, history of art or informatics marks in the secondary school certificate

Career opportunities

The graduates of first-cycle studies are prepared to start their professional careers as auxiliaries and in implementation and construction supervision in the area of urban design and designing architectural objects together with their surroundings. Finishing the studies allows the graduates for second-cycle studies continuation.

Bachelor of Science in DATA ENGINEERING

Faculty: • Faculty of Electronics,
Telecommunications and Informatics,
• Faculty of Management and Economics

Degree to be obtained: Engineer

Duration: 3.5 years (7 semesters)

Language: English

ECTS points: 213



Program description

Making important decisions is always based on collecting and analysing vast amounts of information. Data engineering helps achieve this goal by combining the experience and expertise of two areas: information technology and management. Students of this field of study will learn how to deal with large amounts of data from different sources and how to interpret them. All this is based on computer programs and algorithms and knowledge of mathematics, statistics and economics. Due to a significant number of practical classes one can be sure that after graduation they will not only be theoreticians, but experts prepared to work in the business environment.

Entry requirements

High school/secondary education (or higher)

Career opportunities

- Both IT departments of companies where IT expertise can be utilized for the strategic objectives of the business, and economic departments, where you can use your knowledge to identify the economic needs of a company
- members of development teams, for example in IT, banking, finance, marketing

Bachelor of Science in ENERGY TECHNOLOGIES

Degree to be obtained: Engineer

Duration: 3.5 years (7 semesters)

Language: English

ECTS points: 210

Interdisciplinary program conducted at faculties: Faculty of Mechanical Engineering and Ship Technology and Faculty of Electrical and Control Engineering



Program description

The program of the studies allows the students to obtain the detailed theoretical knowledge as well as the practical expertise of different aspects related to Power Engineering, Energy Technologies and Energy Conservation, taking into account design, production, exploitation, diagnostics and maintenance of power and heat plants, power transmission systems and energy distribution installations. The program is based on the CDIO (Conceive – Design – Implement – Operate) Concept emphasizing design issues.

Entry requirements

Good mathematics and physics marks in the secondary school/matriculation certificate.

Career opportunities

Graduates are able to develop their professional careers in power, heat and combined plants, energy corporations and power distribution companies, manufacturing companies that produce energy facilities like as propulsion systems, as well as in electrical and power sections of various enterprises, especially companies that provide and implement innovative, environmentally friendly energy technologies including renewable energies. They are also prepared to start their own business in the related field.

Bachelor of Science in GREEN TECHNOLOGIES

Faculty of Chemistry

Degree to be obtained: Engineer

Duration: 3.5 years (7 semesters)

Language: English

ECTS points: 211



Program description

Students will gain practical as well as theoretical knowledge covering all fields of green and new technologies and environmental analysis and monitoring. The students will have a solid understanding of environmental and analytical chemistry, ecology, and process engineering. The course will focus hands-on laboratory experience and skill-set based engineering project work.

Entry requirements

Good mathematics, physics or chemistry marks on the secondary school certificate.

Career opportunities

- Any laboratory based employment, such as laboratory technician/assistant. Any work in any environmental regulatory bodies, or government agencies.
- As a chemical engineer, or process engineer the prospective student will find work in industry in the planning, control and construction of processes. Also in industry the student may find work in quality control quality management
- Otherwise the student may find work as a chemical service, or sales engineer.

Bachelor of Science in MECHANICAL ENGINEERING

**Faculty of Mechanical Engineering
and Ship Technology**

Degree to be obtained: Engineer

Duration: 3,5 years (7 semesters)

Language: English

ECTS points: 210



Program description

The aim of the studies is to educate specialists in the field of widely understood mechanical engineering, which includes the construction, manufacturing and operation of machines.

The study program includes lectures, tutorials and laboratory classes in fundamental subjects of mechanical engineering, delivered to the students during first four semesters. Professional elective subjects of the specialization Design and Production Engineering are conducted at final three semesters. The program is delivered in the frame of the so called CDIO philosophy, i.e. Conceive, Design, Implement and Operate.

Among fundamental subjects can be mentioned such ones as: mechanics, strength of materials, machine design, materials science, manufacturing techniques, fluid mechanics, thermodynamics, electrotechnics and electronics as well as welding technology and hydraulics and pneumatics.

Entry requirements

Good mathematics and physics marks on the secondary school certificate.

Career opportunities

The employment opportunities are very wide ranging from small and medium enterprises to the traditional mechanical engineering companies such as production of machine components, steel constructions, automotive industry, shipyards, refineries, refrigeration systems, air conditioning and ventilation systems, hydrostatic drive systems or numerous branches of servicing companies. These opportunities do not exploit all possible carrier options. The graduate can find employment in construction offices or pursuit the second level studies in mechanical engineering or related areas.

Master of Arts in ECONOMIC ANALYTICS (EA)

Faculty of Management and Economics

Degree to be obtained: Master

Duration: 2 years (4 semesters)

Language: English

**ECTS points: 30 ECTS/semester,
120 ECTS/whole curriculum**



Program description

Master in Economic Analytics offers candidates an in-depth knowledge in the field of macro and microeconomics, finance and accounting and provides an expanded range of quantitative methods allowing to conduct effective analyzes in areas which are the basis for decision-making, both in the enterprise and specialized financial institutions. The analyzes are supported with computer software. This program, delivered in English, broadens your knowledge and skills in macroeconomics and helps to understand economic growth and development issues in the globalization era. MGS courses are delivered by highly qualified international staff.

Entry requirements

BA in:

- Economic Analytics (Bachelor degree)
- Economics (Bachelor degree)
- Informatics and Econometrics (Bachelor degree)
- Management (Bachelor degree)
- Accounting and Finance (Bachelor degree)
- Banking (Bachelor degree)
- International Economics (Bachelor degree)
- Economic Relations (Bachelor degree)
- other fields of technical, exact and natural sciences (Bachelor degree or Master degree)
- other fields of social sciences and humanities (Bachelor degree or Master degree)

Career opportunities

Graduates are prepared to work in:

- national and international companies of diverse profile,
- financial institutions,
- research and development units,
- consulting companies,
- administration

Master in MANAGEMENT

specialization: International Management

Faculty of Management and Economics

Degree to be obtained: Master

Duration: 2 years (4 semesters)

Language: English

ECTS points: 120 ECTS



Program description

The objective of this new master program in International Management is to develop future professionals capable of developing resourceful and innovative skills, and able to pursue successful opportunities in the dynamic international environment. This Master's in International Management offers an opportunity to expand your experience by deepening your knowledge in finance, human resources, operations and marketing, among other strategic areas, all presented in an international context. The international management knowledge and skills are advanced through academically rigorous courses and various interactive teaching methods.

In 2016, our management programs, including Master in International Management, received the "excellent" accreditation evaluation, awarded by the Polish Accreditation Committee.

In 2018 the program was prized with the MBM label — the AMBA accreditation for master programs for the years 2018-2023 which acknowledged a high standard of studies' quality. Master in International Management is the only master programs in Poland that has received international AMBA accreditation.

Entry requirements

BA in:

- Engineering Management
- Management (Bachelor degree), Economic Analytics (Bachelor degree), Economics (Bachelor degree)
- Informatics and Econometrics (Bachelor degree)
- Accounting and Finance (Bachelor degree)
- Banking (Bachelor degree)
- European Studies (Bachelor degree)
- other fields of technical, exact and natural sciences (Bachelor degree or Master degree)
- other fields of social sciences and humanities (Bachelor degree or Master degree)

Career opportunities

Graduates are prepared to work in:

- national and international companies of diverse profile,
- consulting companies,
- project teams,
- administration,
- NGOs.

Master of Science in ARCHITECTURE

Faculty of Architecture

**Degree to be obtained: Master of Science
(Engineer, Architect)**

Duration: 1,5 years (3 semesters)

Language: English

ECTS points: 90



Program description:

Courses cover a wide scope of issues from the architectural and urban theory and design, advanced structures and materials, conservation of monuments to urban renewal strategies. Diploma awarded after completion of the second degree studies are formally recognized (in accordance with Directive 2005/36/EC) as a proof of obtaining qualifications of an architect in the European Union.

Entry requirements:

- Completed the fields of study in which a graduate receives the title of Eng. Arch., Bachelor's Diploma or Bachelor's Degree Certificate Majoring in Architecture, after comparing the curriculum
- Approved portfolio

Career opportunities

- Graduates have the knowledge and skills in the fields of: architectural, urban and conservation design, spatial planning, history and theories of architecture, theory of urban design, fine arts, technical sciences, humanities, development of environment with taking into account the relationship between people and architectural objects and the surrounding space, social responsibility of design, solving functional, utility, construction, engineering and technological problems to a degree that provides safety and comfort in facilities, including persons with

disabilities, application of law regulations and procedures concerning building and design process as well as economics and integration of projects with planning regulations in country and Member States of the European Union.

- Graduates understand the role of an architect in society and impact of their work on the quality of built environment. Graduates are prepared to apply the principles of professional ethics, are competent in the application of knowledge in practice, can evaluate and formulate judgments as well as communicate with professional environment. They continue lifelong learning and understand the need for lifelong learning and adaptation of acquired skills to the market needs.
- Graduates are prepared to: undertake creative activity in the field of architectural and urban design, acquire professional licenses as required by law, undertake independent functions in building market, designing and managing construction works in architecture branch, coordinate the work in multi-discipline project teams, manage urban and architectural studios, and to undertake research work.
- Graduates are prepared to take up employment in: architectural and urban planning design studios, local and state government units, research institutions and centers of research, consulting companies. Graduates are prepared to continue their education on the third degree studies (Phd).

Master of Science in AUTOMATIC CONTROL, CYBERNETICS AND ROBOTICS

**specialization: Computer Control Systems
Robotics and Decision Systems**

**Faculty of Electronics, Telecommunications
and Informatics**

**Degree to be obtained:
Master of Science in Engineering**

Duration:

- 2 years (4 semesters)
- 1,5 years (3 semesters)

Language: English

ECTS points:

- 123 (4 semesters)
- 95 (3 semesters)



Program description

Courses focus on the most important topics of modern control theory, such as optimal control, stochastic control, robust control, fuzzy control and adaptive control, as well as on the problems of systems identification and adaptive signal processing. They provide

knowledge allowing one to design high-performance, flexible and robust digital control systems for a wide range of applications.

Entry requirements

BSc in:

- For 3. semesters program: Automatic Control and Robotics, Informatics and obtaining a minimum of 210 ECTS points at BSc studies
- For 4. semesters program: Automatic Control and Robotics, Mechatronics, Electrical Engineering, Electronics and Telecommunications, Informatics, Power Engineering, other related fields (strong background in mathematics and physics)

Career opportunities

Graduates are qualified to work as chief control engineers, members of the research and development staff, designers of management and economics, free traders or managers in industrial companies. In a natural way they also make good candidates for doctoral (PhD) studies.

Master of Science in CIVIL ENGINEERING

Faculty of Civil and Environmental Engineering

Final degree: Master of Science in Engineering

Duration: 1.5 years (3 semesters)

Language: English

ECTS score: 90



Program description

The program provides the students with a vast palette of Civil Engineering topics, to finally bring a solid professional background.

The schedule covers: Mathematics, Theory of Elasticity and Plasticity, Complex Concrete Structures, Complex Steel Structures, Construction Management, Advanced Foundations, Hydro and Marine Civil Engineering, Hydraulics and Hydrology, Finite Element Method, Wind and Earthquake Engineering, Engineering Surveying, Reliability of Structures, Bridge Structures, Transportation Engineering, Geotechnics, Structural Dynamics, Seminar on Civil Engineering, Finite Element Method Applications, Cultural Creation Related Aspects of the Construction Industry, Geology and Hydrogeology, Thesis Seminar.

Entry requirements

The BSc degree.

Alternatively:

- Civil Engineering general academic profile
- Civil Engineering practical profile
- other fields related to Civil Engineering

Career opportunities

The MSc Studies graduate in Civil Engineering is prepared for design and management in the entire field of civil engineering construction. The graduate is capable of working at construction sites, in design offices, research-development institutes, building material industry and other civil engineering institutions. The graduate is ready to apply for the PhD studies.

Master of Science in ELECTRONICS AND TELECOMMUNICATIONS

- specializations:**
- Radio Communication Systems and Networks
 - Computer Electronic Systems

Faculty of Electronics, Telecommunications and Informatics

**Degree to be obtained:
Master of Science in Engineering**

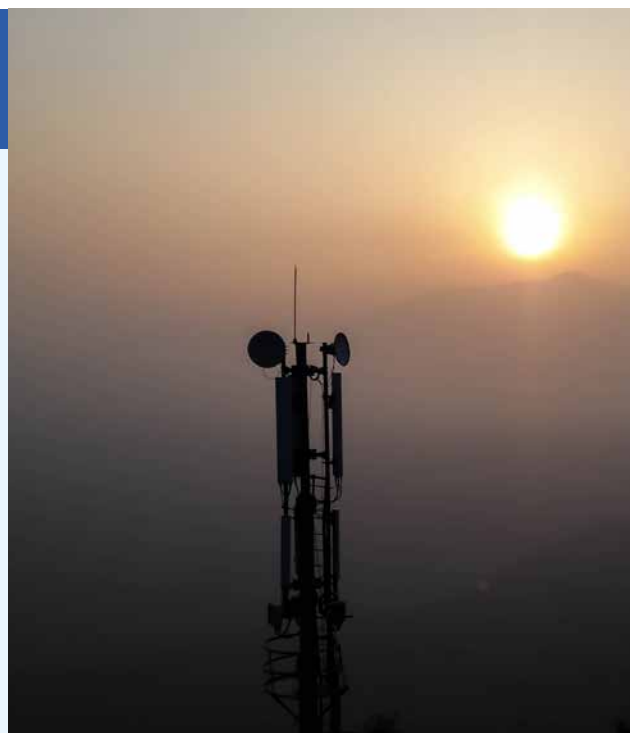
Duration:

- 2 years (4 semesters)
- 1,5 years (3 semesters)

Language: English

ECTS points:

- 123 (4 semesters)
- 95 (3 semesters) - Computer electronic systems
- 95 (3 semesters) - Radio communication systems and networks



Program description

Courses prepare professional specialists in telecommunication systems and networks, especially cellular and trunked radio-communication, land, marine and air mobile radio-communication, personal radio-communication, wireless data transmission systems, digital radio and TV broadcast, design and implementation of services of commercial and dedicated radio-communication networks, satellite and land-based radio-navigation systems.

Entry requirements

BSc in:

- For 3-semester program: Electronics and Telecommunications, Informatics and obtaining a minimum of 210 ECTS points at BSc studies
- For 4-semester program: Electronics and Telecommunications, Automatics and Robotics, Informatics, Biomedical Engineering, Electrical Engineering, Technical Physics, Mechatronics, other related fields (strong background in mathematics and physics)

Career opportunities

Graduates have acquired knowledge of design and operation of radiocommunication systems (GSM, TETRA, UMTS, LTE, Wi-Fi, WiMAX), design and operation of satellite systems (Inmarsat, Thuraya, Iridium, Globalstar, GPS, GLONASS, Galileo), design and

operation of digital television (DVB-C, DVB-S, DVB-T), design and operation of sensor networks (including those based on radio interface, i.a. ZigBee and Bluetooth), and IT security of wireless networks.

Graduates have professional skills in the field of fixed and mobile radio communication, land, sea and satellite communication, cellular and trunked systems, personal terrestrial and satellite communication systems, wireless data transmission systems, and digital broadcasting.

Graduates are characterized by the following social skills: attractiveness on the market, ability to work in a group during the whole implementation process, creativity in solving problems, openness to innovative technical solutions, the ability to present their own views on topics of contemporary communication systems, and efficient use of technical vocabulary in Polish and English while working in project teams.

Master of Science in ENVIRONMENTAL ENGINEERING

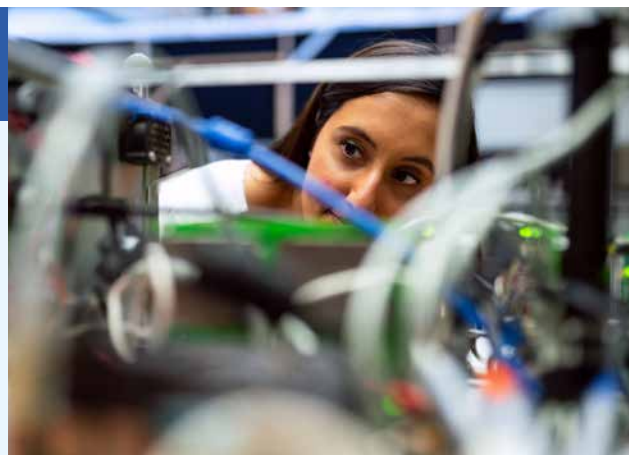
Faculty of Civil and Environmental Engineering

Final degree: Master of Science in Engineering

Duration: 1.5 years (3 semesters)

Language: English

ECTS score: 90



Program description

The program provides the students with a vast palette of Environmental Engineering topics, to finally bring a solid professional background.

The schedule covers: Statistics, Project Management, Interactive Decision Making, Fluid Mechanics, Environmental Microbiology and Chemistry, Water Supply and Wastewater Disposal, Water Reuse, Spatial Planning, Groundwater and Soil Protection, Environmental Impact Assessment, Engineering Surveying and GIS Applications, Wastewater Engineering, Water Treatment, Waste Management, Urban Hydrology, Water Resource Management, Numerical Modelling of Hydrosystems, Modelling Methodologies for the Environment, Thesis Seminar.

Entry requirements

The BSc degree, alternatively:

- Environmental Engineering general academic profile
- Environmental Engineering practical profile
- other related fields related to Environmental Protection

Career opportunities

The MSc Studies graduate in Environmental Engineering is prepared for design and management in the entire field of environmental engineering. The graduate is capable of working at design offices, water supply companies, water treatment plants, research-development institutes and other environmental engineering institutions. The graduate is ready to apply for the PhD studies.

Master of Science in GREEN TECHNOLOGIES

Faculty of Chemistry

Degree to be obtained:

Master of Science in Engineering

Duration: 1.5 years (3 semesters)

Language: English

ECTS points: 90



Program description

Students will gain interdisciplinary knowledge covering all fields of green technology and environmental monitoring. On the Master level, students will gain specialist knowledge in the fields of green and environmental technologies, analytical chemistry and methods. The course highlights "skills" in the fields of environmental contamination monitoring and remediation technologies.

Entry requirements

BSc in:

- Environmental Protection Technologies, Environmental Protection in English,
- Environmental Protection, Environmental Engineering,
- Biotechnology, Chemistry, Materials Engineering, Chemical Technology, Conservation and Degradation of Materials, Chemical and Process Engineering. Graduates of Bachelor degree studies: Environmental Protection, Environmental Engineering,
- Geology,
- Graduates of Bachelor degree studies: Biotechnology, Chemistry, Materials Engineering, Chemical Technology, Chemical and Process Engineering, Geology.
- other related fields

Career opportunities

- Any leading position in a chemical/analytical laboratory
- As a chemical engineer, or process engineer the student will lead design projects in the planning, control and construction of processes
- Academic career path — research and teaching

Master of Science in INFORMATICS

specialization:

Distributed Applications and Internet Services

Faculty of Electronics, Telecommunications and Informatics

Degree to be obtained:

Master of Science in Engineering

Duration:

- 2 years (4 semesters)
- 1,5 years (3 semesters)

Language: English

ECTS points:

- 121 (4 semesters)
- 91 (3 semesters)



Program description

Courses are offered in the fields of internet system architectures and their related design problems, distributed and parallel algorithms, applications of artificial intelligence, platforms for collaborative work and ambient intelligence.

Entry requirements

BSc in:

- For 3-semester program: Informatics and obtaining a minimum of 210 ECTS points at BSc studies
- For 4-semester program: Informatics, Automatics and Robotics, Electronics and Telecommunications, Electrical Engineering, Technical Physics, Biomedical Engineering, Mechatronics, other related fields (strong background in mathematics and physics)

Career opportunities

Graduates are qualified to work as:

- IT specialists or managers at private companies, research and development institutions, public administration, or academic and educational centers,
- systems analysts, senior programs of application development, or local network administrators,
- members of enterprise IT strategy development teams,
- team leaders for IT projects,
- academic teachers and researchers,
- self-employed specialists or owners of small companies in the IT branch.

Master of Science in NANOTECHNOLOGY

specialization:
**Nanostructures and computer simulations
in materials science**

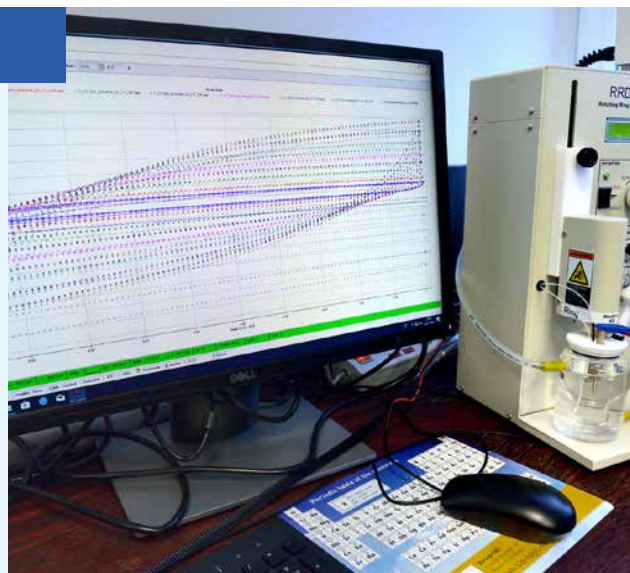
Faculty of Applied Physics and Mathematics

Degree to be obtained:
Master of Science in Engineering

Duration: 2 years (8 semesters)

Language: English

ECTS points: 120



Program description

Highly specialized classes will be held in our Nanotechnology Center, which houses laboratories with state-of-the-art equipment. The program is focused on the properties and design of novel nanostructured and functional materials applied in: energy conversion and storage, electronics, spintronics, sensors, environmental protection, biomedicine etc.

Entry requirements

BSc in:

- Nanotechnology, Materials Engineering, Technical Physics
- Other related fields: a strong background in mathematics, physics and chemistry at university level is highly recommended.

Career opportunities

You will obtain skills and knowledge in the fields of:

- nanomaterials synthesis,
- measurements and analysis of structural, mechanical, electric and magnetic properties of materials,
- computer-aided materials design and analysis.

Additionally, our alumni have strong “soft” skills; they are able to lead, communicate and work in teams. The best graduates will be given the opportunity for PhD studies.

Master of Science in OCEAN ENGINEERING

- Specializations:**
- **Marine Engineering and Offshore Energy**
 - **Ship Technology and Offshore Engineering**

Faculty of Mechanical Engineering and Ship Technology

**The degree to be obtained:
Master of Science in Engineering**

Duration:

- **2 years (4 semesters)**
- **1,5 years (3 semesters)**

Language: English



Program description

The aim is to provide advanced engineering knowledge in the field of Ocean Engineering including two main specializations: Ship Technology and Offshore Engineering, Marine Engineering and Offshore Energy.

Students will gain detailed knowledge within the subjects such as Marine Applied Informatics, CAE and Design Tools, Ship and Offshore Power Systems Design, Dynamics of Ship and Offshore Structures, Advanced Mechanics of Marine Structures, Ship and Offshore Structures Design, Marine and Offshore Systems and Equipment's, Modelling and Simulation in Ocean Engineering, Reliability, Safety and Risk Analysis, Advanced Material Engineering and Manufacturing Technology, Marine and Intermodal Transport,

Finance and Economy in Engineering Design, Maritime Environmental Protection and Optimization in Engineering Design. They deal with a real design process and prepare the final thesis in cooperation with the industrial partners of the Faculty.

The program is supported and organized in cooperation with Det Norske Veritas – Germanischer Lloyd (DNV GL).

Entry requirements

- For 3-semester programme: B.Sc. in Naval Architecture, Marine Engineering, Ocean Engineering
- For 4-semester program: B.Sc. in Naval Architecture, Marine Engineering, Ocean Engineering, Offshore Engineering, Mechanical Engineering, Civil Engineering, Energy/Power Engineering, Electrical Engineering, Transport or all other similar engineering fields

Career opportunities

Graduates are qualified to work as:

- employees in maritime environment enterprises as in building shipyards, repair shipyards and other companies cooperated with the shipbuilding industry
- employees in shipbuilding designing-construction offices
- employees in research institutes
- employees in classification societies

Master of Science in SPATIAL DEVELOPMENT

Specialization: Urbanism

Faculty of Architecture

Degree to be obtained: Master of Science

Duration: 1,5 years (3 semesters)

Language: English

ECTS points: 90



Program description

We deliver comprehensive planning education at the Masters's level, with a particular focus on cities, their territorial environment, and their transformation. Our approach is design-oriented with a solid theoretical background. The issues of urban, regional, and transboundary planning, strategic planning, urban regeneration, new planning tools are also included in the program.

Entry requirements

BSc in:

- Spatial Development
- Architecture / Architecture and Urban Planning – Eng. Arch.
- Civil Engineering, Economics, Management, Environmental Protection, Transport, Geodesy and Cartography
- Other fields*

* related program that offers the knowledge on territorial issues at different scales

Career opportunities

Our graduates are prepared to work in planning offices and agencies, both public and private, across Poland and other European countries and beyond (eg. the US), public administrations at every level (local, regional, national and European); they can advise investment banks, developers, local communities and civic society organization; they are able to act as experts in consulting and development companies; they are also prepared to work for the EU institutions.

Master of Science in MSC IN MECHANICAL ENGINEERING

Specialization: International Design Engineer

Faculty of Mechanical Engineering

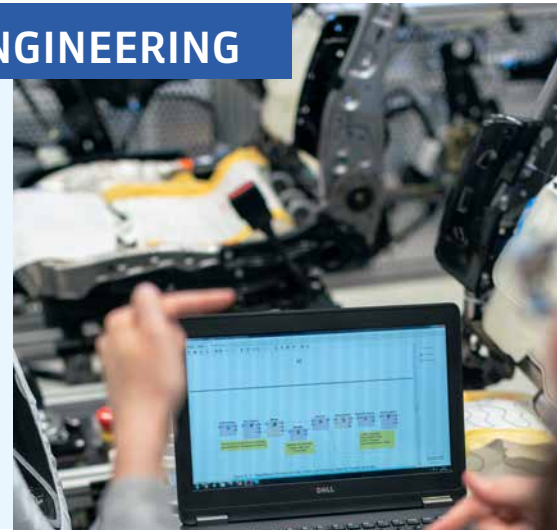
Degree to be obtained:

Master of Science in Engineering

Duration: 1.5 years (3 semesters)

Language: English

ECTS points: 90



Program description

The major objective for students is to acquire theoretical knowledge in advanced topics in the area of mechanics and machine construction and operation, as well as practical expertise in the application of this knowledge. Graduates from this course will have a well-founded knowledge of the principles of mechanics, design and manufacturing with the aid of modern computational tools; be able to execute works aiding machine design and construction of materials, and carry out supervision of their operation; be fluent in utilizing modern engineering computer software and harnessing modern technologies; be able to undertake doctoral studies; be able to lead teams and companies; have the ability to utilize the acquired knowledge at work and in daily life; have the ability and skills needed to establish and manage small companies, as well as being familiar with the necessary legislation to run small and medium enterprises.

Entry requirements

BSc in:

- Mechanical Engineering, Management and Production Engineering
- Automatics and Robotics, Civil Engineering, Electronics and Telecommunications, Electrical Engineering, Power Engineering, Technical Physics, Safety Engineering, Biomedical Engineering, Chemical and Process Engineering, Materials Engineering, Medical and Mechanical Engineering, Environmental Engineering, Aviation and Space Exploration, Mechatronics, Metallurgy, Ocean Engineering, Environmental Protection, Agricultural Technology and Forestry, Wood Technology, Transport, Textiles, other related fields
- Other related fields

Career opportunities

Our Graduates are qualified to work as:

- engineers in all branches of mechanical engineering as well as those focused on machine production and operation
- engineers in design, construction and technology units, as well as those dealing with organization of production and automation of manufacturing processes
- engineers in accreditation and quality assurance offices, commissioning offices of products and materials
- engineers in consultation units, and other units of administration, education and economy requiring technical and IT knowledge
- engineers in research and development units.

BACHELOR PROGRAMS

	PROGRAM	DURATION IN SEMESTERS	TUITION PER SEMESTER (PLN)	STARTS IN SEMESTER
1	Bachelor of Science in Green Technologies	7	8 600 PLN	winter
2	Bachelor of Science in Energy Technologies	7	8 600 PLN	winter
3	Bachelor in Management	6	8 600 PLN	winter
4	Bachelor of Science in Data Engineering	7	8 600 PLN	winter
5	Bachelor of Science in Mechanical Engineering	7	8 600 PLN	winter
6	Bachelor of Science in Architecture	8	8 600 PLN	winter

APPLICATION FEE: 85 PLN

APPLICATION FEE for Bachelor of Science in Architecture: 150 PLN

!Each program has individual entry requirements. Please read these before applying:
[Bachelor programs Candidates](#)



MASTER PROGRAMS

	PROGRAM	DURATION IN SEMESTERS	TUITION PER SEMESTER (PLN)	STARTS IN SEMESTER
1	Master of Science in Architecture	3	6 000 PLN	summer
2	Master of Science in Civil Engineering	3	8 600 PLN	winter & summer
3	Master of Science in Automation, Cybernetics and Robotics specialization: Computer Control Systems Robotics and Decision Systems	4 (3)	8 600 PLN	winter (summer intake to be confirmed)
4	Master in Economic Analytics	4	10 750 PLN	winter
5	Master of Science in Electronics and Telecommunications specialization: Computer Electronic Systems Radio Communication Systems and Networks	4 (3)	8 600 PLN	winter (summer intake to be confirmed)
6	Master of Science in Environmental Engineering	3	8 600 PLN	winter & summer
7	Master of Science in Green Technologies	3	8 600 PLN	winter & summer
8	Master of Science in Informatics specialization: Distributed Applications and Internet Services	4 (3)	8 600 PLN	winter (summer intake to be confirmed)
9	Master of Science in Nanotechnology specialization: Nanostructures and computer simulations in material science	4	8 600 PLN	winter
10	Master of Science in Ocean Engineering specialization: Ship and Offshore Structures Marine and Offshore Energy	4 (3)	8 600 PLN	winter & summer
11	Master in Management specialization: International Management Small Business Economics & Management	3	10 750 PLN	winter
12	Master of Science in Mechanical Engineering specialization: International Design Engineer	3	9 000 PLN	summer
13	Master in Spatial Development specialization: Urbanism	3	6 000 PLN	summer

APPLICATION FEE: 85 PLN

! Each program has individual entry requirements. Please read these before applying:
[Master programs Candidates](#)



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www.pg.edu.pl/en/admission