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Eco4Life
Study Guide
LifeScience & Environment



The Baltic Sea Region
Green . Bio . Health . Valleys

POLAND/Zachodniopomorskie
LITHUANIA/Region Klaipeda

Forword

The project EU-project “Eco4Life-South Baltic Network for Environmental and Life Sciences to Boost Cross Border Cooperation” bundled competencies in environmental and Life Sciences in the coastal regions of Mecklenburg-Vorpommern, the West Pomeranian Voivodeship and the Klaipeda County. The project aimed to decrease existing differences within the South Baltic area with regard to access to knowledge, technologies and development in the field of knowledge based bio economy.

The project created between 2010 and 2013 a systematic training methodology and tools that allow increasing entrepreneurship and cross-sectoral competences of the final beneficiaries of the project: Regular update of the training modules after the project in accordance with local, regional and international needs in line with sustainability principles will foster a systematic and periodic exchange of the experiences, know-how and methodologies and can be followed on the project website www.eco4life.info.

To increase mobility indicators between the regions of the South Baltic area by exchange of students and trainees between the project partner regions, a study guide “CleanTec Mecklenburg-Vorpommern” and a study guide “LifeScience and CleanTec Lithuania and Poland” were filed, and will be regularly updated on the project website www.eco4life.info.

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17489 Greifswald

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Publikation 2013

Welcome

In the discussion about the shortage of qualified specialist staff and the challenges arising from demographic changes, a new buzzword has appeared in the political arena: the welcome culture.

Welcome centres across Europe are creating welcoming structures to support qualified specialist staff.

KLAIPĖDA UNIVERSITY

H.Manto 84
92294 Klaipeda, Lithuania

KOSZALIN UNIVERSITY OF TECHNOLOGY

ul. Śniadeckich 2,
75-453 Koszalin,
Phone: +48 94 34 78 505
www.tu.koszalin.pl

WEST POMMERANIAN UNIVERSITY OF TECHNOLOGY

ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: zut@zut.edu.pl

www.biotechnologia.zut.edu.pl

POMERANIAN MEDICAL UNIVERSITY

ul. Rybacka 1, 70-204 Szczecin
Phone: +48 91 48 00 816 (817)
Email: rekrut@pum.edu.pl
www.pum.edu.pl

UNIVERSITY SZCZECIN

al. Papieża Jana Pawła II 31
70-453 Szczecin
Phone.: +48 91 444 11 85
Email: dwz@univ.szczecin.pl

www.us.szc.pl

Study

There are no general course fees for studying at universities in Mecklenburg-Vorpommern. There may, however, be fees or dues of about €50 per semester collected, e.g. fees to cover administrative costs associated with registration or renewing registration.

International students interested in studying a course meet the qualification prerequisites for studying in Germany provided their educational qualifications allow tertiary level study in their country of origin and they comply with the educational equivalence proposals of the Central Office for Foreign Education of the Standing Conference of the Ministers of Education and Cultural Affairs (KMK), published in a database (www.anabin.de).

Recognition of educational qualifications is decided as part of the admissions procedure generally carried out by the state university at which the course will be undertaken. The recognition is limited in this case to the course being applied for, that is, if a student applies for a different course the recognition procedure must be repeated. The states are able to set up a central qualifications recognition office in their state to evaluate foreign educational qualifications. Evaluations by central qualifications recognition offices apply across Germany. The Ministry of Education, Science and Culture in Mecklenburg-Vorpommern (Schools Department, Unit 280) is the qualification recognition office in MV. For about 125 German universities, uni-assist.de carries out the preliminary testing procedures on behalf of the particular university.

Students must also provide proof of their oral and written skills in German and these requirements may vary between universities and must be provided as certified copies.

LITHUANIA

Klaipeda region

Klaipeda University

Independent mind and marine spirit...

Klaipėda University today enters into third decade of existence. It is the only structurally full-rate university in a large part of Western Lithuania, where a perspective industrial and commercial potential is rallied, where marine complex is developed and distinctive cultural traditions are cherished. It was established for realization of scientific researches and studies in marine topics. Dominant in the University are trends in scientific researches, artistic activity and academic activities, which are not cultivated by other Lithuanian universities. It develops as an autonomous and modern scientific and study centre. 600 professors, associate professors and lecturers, including 4 national award winners in science, culture and art, for 7 faculties (Natural Sciences and Mathematics, Humanities, Marine Engineering, Arts, Pedagogy, Social sciences, Health sciences), 2 study institutes (Maritime and Continuing studies), 3 scientific research institutes (Baltic Coastal Research and Planning, Baltic Region History and Archaeology, Mechatronics) as scientific research and study centres, library with about 0,5 million books of different topics, Botanical garden. Presently developed Marine valley will undoubtedly contribute to integration of science and studies. It will be provided with modern scientific research laboratories, a ship for oceanographic researches and practical training of students. Necessity to establish and develop it is stimulated by rapid development of marine trade and increasing demand for marine researches, related to alteration of marine and coastal geo-systems, rational employment of natural resources, preservation of natural and cultural values, construction of deep-sea port in Klaipėda, reconstruction of Šventoji harbour and operation of Būtingė oil terminal. The University enjoys scientific and academic partnership with 28 European and North American universities. It is involved in many international funds and programmes. rden, Publishing office and Career centre.

www.ku.lt/en/about/

SOCIAL WORK IN COMMUNITY (Bachelor of Social work)

The International Master of Science in Marine Biodiversity and Conservation (EMBC+) is offered by a University consortium consisting of 7 university partners and over a wide global network of associate members.

The study programme is divided in 7 modules: (1) Understanding the structure and function of marine biodiversity, (2) Toolbox for investigating marine biodiversity, (3) Conservation and Restoration of marine biodiversity, (4) Transferable skills, (5) Internship, (6) Spring School, (7) Thesis work.

Student mobility is an integral part of the Master: students start in one of the three group I Universities for 2 semesters; for the third semester, students move to one of the group II Universities. The research project for the thesis work is performed in one of the partner institutions.

Institution

- Assoc. Prof. Dr. Elvyra Acienė

Department of Social Work
Internet: https://web.liemsis.lt/kuis/stp_report_ects.card_ml?p_valkod=612L50002&p_year=2012&p_lang=EN

Duration

- 4 years

NURSING (Bachelor of Nursing General Practice Nurse)

The person, which is having nursing bachelor qualification degree and general practice nurse professional qualification acquires knowledge of these sciences, which are based on nursing, as well embracing scientific methods, knowledge about healthy and ill human body structure, functions and behavior, as well connections between human state of health and his physical and social surrounding, news about clinical nursing, controlling nursing manipulations.

Specialists of nursing must have university education, which is allowing to nurse to be equivalent doctor colleague and to be able to give an advice about nursing questions or to offer by allowed competence nursing services in all health care levels.

Institution

- Dr. Vida Mockienė

Department of Nursing

https://web.liemsis.lt/kuis/stp_report_ects.card_ml?p_valkod=612L50002&p_year=2012&p_lang=EN

Duration

- 4 years

MARINE HYDROLOGY (Master of Natural geography)

Programme is designed to deepen student's competencies, knowledge about the marine and ocean physical processes, hydrosphere interaction with other geospheres; weather mode and hydrometeorology regime, modern marine research and forecast preparation methods, fundamental global marine economy components and their geographical characteristics. The person, who has physical geography master degree, is capable to use the newest geographical, geo-informatics, sea and coastal region environmental research methods, has spatial system modelling basics, also has skills of environmental planning and coastal zone management. Marine Hydrology Master's programme is carried out with Klaipeda university aims to educate the younger generation with a spirit of maritime nations, also according to the Lithuanian marine environmental protection law (Žin. 1997, No 108-2731) to promote researches into the maritime area who are necessary to assess the state of the environment, to develop the knowledge about the marine environment, to form the scientific understanding.

ECOLOGY AND ENVIRONMENTAL STUDIES (Master in Life Sciences)

The main aim of the Ecology and Environmental Studies Master's (EESM) programme is to prepare higher qualification Ecologists with strong emphasis on competencies that meet the requirements of the modern knowledge – based and informational – based Lithuanian state and EU economy and to ensure the following main qualities of the curriculum General tasks: to reflect current and future labour market needs with special focus on the coastal zone, to provide graduates a competitive abilities. To ensure graduates to be prepared for positions in all European areas. To ensure that the graduates leave university with enough capacity and the motivation to continue their future studies and/ or learning throughout life. To allow international students and graduates mobility. To ensure graduates to be prepared for academic and research work.

Institution

- KLAIPĖDA UNIVERSITY

Dr. Loreta Kelpšaitė
Department of Geophysical Sciences

Internet: https://web.liemsis.lt/kuis/stp_report_ects.card_ml?p_valkod=621F80001&p_year=2012&p_lang=EN

Duration

- 2 years

Institution

- KLAIPĖDA UNIVERSITY

Prof. Dr. Darius Daunys
Department of Ecology
Internet: <http://www.ku.lt/en/faculty-of-natural-sciences-and-mathematics/>

Duration

- 2 years

DOCTORAL DEGREE STUDIES OF ECOLOGY AND ENVIRONMENTAL SCIENCE (PhD in Ecology and Environmental Science)

Doctoral studies are conducted by the leading marine research institution in Lithuania Coastal Research and Planning Institute (CORPI) of Klaipeda University. International standards set by the EU's ERASMUS MUNDUS joint doctoral program of the "Marine Ecosystem Health and Conservation" are complied during the studies. CORPI participate in this program with the Universities of Ghent (Belgium), Bremen (Germany), Plymouth (United UK), Bologna (Italy) and others as well as leading marine science centers. Research subject: the main focus of doctoral studies is on interdisciplinary research of the natural and anthropogenic processes in marine and transitional waters using physical, chemical, geological and biological research methods. Out of this, themes of doctoral dissertations cover the wide range of disciplines:

- marine biogeochemistry, geophysics, geology,
- marine biology and ecology,
- environmental impact assessment in the coastal zone,
- integrated coastal zone management,
- numerical methods in marine environmental research.

Institution

- KLAIPĖDA UNIVERSITY

Ernesta Prūsaitė

International Program Coordinator

Internet:

<http://www.ku.lt/en/wp-content/uploads/2012/12/Doctoral-degree-studies-of-Ecology-and-Environmental-Science.pdf>

<http://www.mares-eu.org/index.asp?p=900&a=900>

Duration

- 4 years

NON DEGREE STUDIES

INTERNATIONAL MSC IN MARINE BIODIVERSITY AND CONSERVATION

The International Master of Science in Marine Biodiversity and Conservation (EMBC+) is offered by a University consortium consisting of 7 university partners and over a wide global network of associate members. The study programme is divided in 7 modules: (1) Understanding the structure and function of marine biodiversity, (2) Toolbox for investigating marine biodiversity, (3) Conservation and Restoration of marine biodiversity, (4) Transferable skills, (5) Internship, (6) Spring School, (7) Thesis work. Student mobility is an integral part of the Master : students start in one of the three group I Universities for 2 semesters; for the third semester, students move to one of the group II Universities. The research project for the thesis work is performed in one of the partner institutions.

• KLAIPĖDA UNIVERSITY

Dr. Marija Katarzyte
marija@corpi.ku.lt

Internet: <http://embc.marbef.org/index.asp>

Duration

- 4 years

ECOLOGY

This course provides a comprehensive overview of classical and contemporary aspects of the marine ecology including morphology, hydrochemistry, hydrodynamics and the ecology of different estuarine organisms (bacteria, algae, macrophytes and animals).

Internet: <http://www.ku.lt/en/wp-content/uploads/2012/12/ECOLOGY-28-ECTS.pdf>

Duration

- 1 semester

PUBLIC HEALTH

The objective of the program is to introduce modern public health approach to local public health policy towards health and safety promotion in the community. This course consist of 6 models: 1. Local Public Health Policy. 2. Primary Health Care. 3. Safety Promotion and Safe Environment Creation. 4. Child and Young People Health. 5. Health Sociology. 6. Methods of Sociological Research.

Internet: <http://www.ku.lt/en/wp-content/uploads/2012/12/Public-Health-30-ECTS.pdf>

Duration

- 1 semester

POLAND

Zachodniopomorskie

Koszalin University of Technology

Koszalin University of Technology is the only public technical university in the Middle Pomerania, and the only technical university in the West Pomeranian voivodship and one of the largest institutions of Koszalin. It has the impact on the entire region and contributes to its dynamic development. At present, it educates over nine thousand students in twenty-eight modern fields of study such as technical, economics, humanities and arts majors. The students are awarded the academic degrees of: Bachelor, Engineer, Master's Degree and Master of Science as well as Doctor. Koszalin University of Technology is located on three campuses in the following streets: Kwiatkowskiego, Raławicka and Śniadeckich. Four dormitories with modern equipment - creating the academic area, together with Kreślarnia club - are located in Rejtana Street. Commuting to each campus takes only a few minutes. The convenient public transport facilitates easy commuting of students between the campus and the academic area. The extraordinary advantage of Koszalin's location - on the route from Szczecin to Gdansk - is the close proximity to the Baltic coast. From the city center to the seaside resort - Mielno is only 14 kilometers away. Apart from the tourist season, it takes half an hour to travel to the seaside resorts of Kołobrzeg and Darłowo. At the university there are many active student circles and organizations, including student radio station and two television studios, a climbing club, a dance club, photographic groups, editorials of newspapers and a student portal. Every year the student government organizes yearly student carnival - „juwenalia“, very popular among young students. The university student club Kreślarnia, for another consecutive year, has received the prestigious title of the best student club in Poland. Koszalin University of Technology provides a well-equipped classrooms and laboratories. It also provides e-learning platform - where interested people can find materials which are useful in everyday learning. Students can take three-month paid internships in companies whose business profile is closely related with fields of study.

West Pomeranian University of Technology

The West Pomeranian University of Technology has its origins...well. The University historians will face a problem. Was it in December 1946 when Szczecin Engineering School was founded or in 1954 when the Agricultural Academy in Szczecin started to exist or maybe in 1956 when Szczecin Engineering School was upgraded to a university of technology? Or should we seek the beginnings in contemporary times? The 21st century might be the answer because its challenges gave birth to the idea of uniting two universities. Consolidation of scientific and teaching potential of universities, scattered in Poland, seems inevitable in view of progressing slowdown in population growth, competition on higher education market and expectations as it comes to their influence on technology and economy development. Bringing a university into existence, besides enriching its teaching programme with new fields of study and specializations, creates a possibility of further, faster progress of new technologies in technical and natural sciences. Common achievements of Szczecin University of Technology and the Agricultural Academy in Szczecin in these scientific areas and their highly qualified staff launch new quality standards in education in Western Pomerania.

www.zut.edu.pl

Pomeranian Medical University

The West Pomeranian University of Technology has its origins...well. The University historians will face a problem. Was it in December 1946 when Szczecin Engineering School was founded or in 1954 when the Agricultural Academy in Szczecin started to exist or maybe in 1956 when Szczecin Engineering School was upgraded to a university of technology? Or should we seek the beginnings in contemporary times? The 21st century might be the answer because its challenges gave birth to the idea of uniting two universities. Consolidation of scientific and teaching potential of universities, scattered in Poland, seems inevitable in view of progressing slowdown in population growth, competition on higher education market and expectations as it comes to their influence on technology and economy development. Bringing a university into existence, besides enriching its teaching programme with new fields of study and specializations, creates a possibility of further, faster progress of new technologies in technical and natural sciences. Common achievements of Szczecin University of Technology and the Agricultural Academy in Szczecin in these scientific areas and their highly qualified staff launch new quality standards in education in Western Pomerania.

www.pum.edu.pl

Szczecin University

Szczecin University is a dynamically developing institution with over thirty thousand students, half of which study extramurally. Our students may choose from 44 major courses. The offer of post-graduate courses equals 58, with over 2000 students currently attending. The MBA studies available at the Faculty of Economics and Management currently have 82 attending students. Every year, there are about 500 doctoral students at our university.

The university has the right to confer doctoral degrees in fourteen disciplines: biology, economics, geography, history, pedagogy, philosophy, law, management, linguistics, literature studies, theology, physics, mathematics and political science. Seven faculties have the authority to confer the degree of doctor of science, i.e. the faculties of: Humanities, Philology, Biology, Management and Economics of Services, Law and Administration, Economics and Management, and Geosciences.

www.usz.edu.pl

KOSZALIN UNIVERSITY OF TECHNOLOGY

Agriculture and Forestry (Bsc)

This field of study offers a degree in agricultural engineering and forestry with information technology and economics. This combination greatly enhances graduates' employment prospects. On completion of the degree, graduates are able to apply their knowledge to biosystems engineering and soil-machine-plant systems, thus enabling them to formulate and solve technical problems connected with all aspects of rural infrastructures, agricultural production and food economy.

Institution

• KOSZALIN UNIVERSITY OF TECHNOLOGY
ul. Raclawicka 15-17, 75-620 Koszalin,
Phone. +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration

• 3.5 years

Agriculture and Forestry (Msc)

Graduates will be able to undertake a wide range of tasks connected with food and farming economics and the utilisation of a wide range of agricultural technology. They will also be competent to supervise and manage food production processes. Graduates have a knowledge of a foreign language at the Common European Framework of Reference for Languages at Independent User Level, which they are able to use in their areas of technical competence.

- Food Processing and Engineering
- Organic Agriculture and Agribusiness
- Methods and Techniques of Plant Protection
- Agricultural Technology
- Information Technology in Agriculture

Institution

• KOSZALIN UNIVERSITY OF TECHNOLOGY
ul. Raclawicka 15-17, 75-620 Koszalin,
Phone. +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration

• 1.5 years

Environmental Engineering (BSc degree course)

Students of environmental engineering are trained to solve the technical, technological and organisational problems connected with the protection, exploitation and transformation of environmental resources in both rural and urban settings as well as inside buildings. Graduates will be able to undertake all manner of projects, including the design and supervision of the building of engineering installations as well as their repair and renovation.

- Sanitary Systems and Installations
- Water, Sewage and Waste Treatment
- Environmental Planning and Protection (full-time students only)

Employment possibilities

Graduates of environmental engineering are highly sought after and can expect to find employment in departments of town and country planning, water and sewerage companies, industrial plants, environmental protection agencies, the environmental departments of regional and local government and in heating and air-conditioning companies. Environmental engineering is a well-paid and interesting profession

Institution

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ul. Raclawicka 15-17, 75-620 Koszalin,
Phone. +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration

- 3.5 years full-time; 4.5 years extramural

Environmental Engineering (MSc degree course)

Environmental planning and protection - students are taught the basic principles relating to the planning, shaping and protection of the environment and are given all-round training in the use of the latest developments in computer-aided environmental protection techniques with special reference to lakes, river systems, drainage, soil and air. Instruction is given in the use of GIS (Geographical information systems)

- Sanitary Systems and Installations
- Heating and Air-conditioning Systems (full-time students only)
- Water, Sewage and Waste Treatment
- Environmental Planning and Protection

Institution

- KOSZALIN UNIVERSITY OF TECHNOLOGY
ul. Raclawicka 15-17, 75-620 Koszalin,
Phone. +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration

- 1.5 years full-time; 2 years extramural

Environmental Protection (Bsc.)

Students will develop a knowledge of natural sciences, related mathematics, and technical and agricultural sciences, which can be used in a wide variety of practical employment contexts. The specialised professional qualifications gained will enable students to understand the influence and effects of human activity on the environment. Graduates will be aware of the technological and natural issues that are of significance for environmental protection. They will be excellent team players and skilled managers of human resources and will also have a sound knowledge of the specialist literature relating to business activity. Graduates will be able to solve technical problems in a creative and innovative manner; they will have highly-developed communication skills; and will be able to manage a wide range of environmental protection projects. The faculty offers a modern style of education with many opportunities to gain practical experience and the possibility of traineeships at home and abroad.

Institution

• KOSZALIN UNIVERSITY OF TECHNOLOGY
ul. Raławicka 15-17, 75-620 Koszalin,
Phone. +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration:

• 3.5 years full-time; 4 years extramural

Food Technology (Bsc.)

The high consumer demand for a vast range of food products, not least processed foods, is one of the reasons why food technology is an attractive study option today. There is a great demand for specialists in nutrition, food science, food production technology, food processing and distribution as well as experts in consumer law relating to food products of all kinds. Students taking this degree course gain a thorough knowledge of the physical, chemical and microbiological composition of food, biotechnology, nutrition and the economics of food production. Specialisations

- Food Engineering
- Nutrition and Food Safety
- The Biotechnology of Foodstuffs

Institution

• KOSZALIN UNIVERSITY OF TECHNOLOGY
ul. Raławicka 15-17, 75-620 Koszalin,
Phone. +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration:

• 3.5 years

Food Technology (Msc.)

Graduates have specialist skills in the processing, preservation, packaging and storing of food and also function as quality control experts. They understand the fundamental principles of sound nutrition and are able to organise food production, including the selection of appropriate machines and equipment. They have a knowledge of marketing techniques and consumer law as well as government and industry specifications and regulations. Graduates also have a knowledge of business management and are competent in the use of computer techniques in the control of technological processes. Graduates will have knowledge of a foreign language at the Common European Framework of Reference for Languages Independent User level and can use of appropriate technical language in their respective fields of specialisation.

Institution

- KOSZALIN UNIVERSITY OF TECHNOLOGY
ul. Raclawicka 15-17, 75-620 Koszalin,
Phone: +48 94 34 78 440/329

Internet: www.wbiis.tu.koszalin.pl

Duration:

- 1.5 years

West Pomeranian University of Technology

Animal husbandry (B.Sc)

Animal husbandry is the study of rational farming and animal husbandry. The scope of animal husbandry includes such areas as genetics, improvement of animals, reproduction, nutrition, feedstuffs or mechanization and economics in livestock production. After the first year of course students have possibility to choose one specialty: Horse breeding and horse riding or Animal nursery.

Institution

- West Pomeranian University of Technology
Faculty of biotechnology and animal breeding
ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.p

Duration

- 7 semesters

Animal husbandry (M.Sc)

The admission requirement of West Pomeranian University of Technology is an initial bachelor's degree of animal husbandry. During the course it is possible to chose from 4 specialties: Ecology and animal prevention, Livestock farming, Husbandry of amateur and laboratory animals, Agritourism.

Institution

- West Pomeranian University of Technology
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ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.p

Duration

- 3 semesters

Applied microbiology (B.Sc)

The course of Applied Microbiology prepares for the broader activities in the field of microbiology at the bachelor's level. Graduates should have knowledge of all microbial groups, based on the foundations of natural sciences, medicine and engineering.

Institution

- West Pomeranian University of Technology
Faculty of Food Sciences and Fisheries
ul. Królewicza 4, 71-550 Szczecin
Phone: +48 91 449 66 54
Email: dziekanat.wnozir@zut.edu.pl
Internet: <http://www.wnozir.zut.edu.pl>

Duration:

- 7 semesters

Bioinformatics (B.Sc)

Bioinformatics is a new field of biological sciences, which applies techniques and computer models to process the information collected in biological databases. Information technology is now an essential tool for characterization, monitoring and analysis of the various phenomena in nature. It helps to understand the laws of nature. Studies will equip graduates with a broad range of biological disciplines knowledge, based on the foundations of science with particular emphasis on information technology and the latest numerical methods used in the biological sciences. Bioinformatics students, after the first year of study shall choose one of two specializations: Systems biology and computer methods or Information Systems in Biology.

Institution

- West Pomeranian University of Technology
Faculty of biotechnology and animal breeding
ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.pl

Duration:

- 7 semesters

Biology (B.Sc)

Biology is a science dealing with the study of life and living organisms. It focuses on the characteristics, classification, and behaviors of organisms, as well as discovery of new species, and the relationships between living organisms and the environment. The purpose of the studies is to prepare graduates to understanding and interpreting the phenomena occurring at different levels biological organization.

Institution

- West Pomeranian University of Technology
Faculty of biotechnology and animal breeding
ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.p

Duration:

- 6 semesters

Biology (M.Sc)

Graduates are prepared to perform basic analytics and to conduct research using biological material in research or diagnostic laboratories, in industry, government, education. After this course it is possible to teach biology and chemistry in school after the acquisition of additional teaching rights.

Institution

- West Pomeranian University of Technology
Faculty of biotechnology and animal breeding
ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.pl

Duration:

- 4 semesters

Environmental protection (B.Sc)

Environmental protection is a science that is focused on environmental degradation prevention and the proper use and restoration of natural resources. Graduates are prepared to work in public environmental protection offices, environmental organizations, in natural societies.

Institution

- West Pomeranian University of Technology
Faculty of Environmental Management and Agriculture
ul. Słowackiego 17, 71-374 Szczecin
Phone: + 48 91 449 6205
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.pl

Duration:

- 7 semesters

Environmental protection (M.Sc)

The admission requirement of West Pomeranian University of Technology is an initial bachelor's degree from physical sciences, chemical sciences, biological, technical, agricultural or veterinary sciences. The aim is to widen the knowledge that was gained during the first degree.

Institution

- West Pomeranian University of Technology
Faculty of Environmental Management and Agriculture
ul. Słowackiego 17, 71-374 Szczecin
Phone: + 48 91 449 6205
Email: rekutacja.wksir@zut.edu.pl
Internet: www.wksir.zut.edu.pl

Duration:

- 3 semesters

Food technology and human nutrition (M.Sc)

In this course students can choose between 4 specialties: Food technology and biotechnology, food analysis and quality management, Fish technology, Human nutrition.

Institution

- West Pomeranian University of Technology
Faculty of Food Sciences and Fisheries
ul. Królewicza 4, 71-550 Szczecin
Phone: +48 91 449 66 54
Email: dziekanat.wnozir@zut.edu.pl
Internet: <http://www.wnozir.zut.edu.pl>

Duration:

- 3 semesters

Food technology and human nutrition (B.Sc)

The course is an interdisciplinary field, combining knowledge of chemistry, biology, technology and physics. After the first year of course West Pomeranian University of Technology provides 3 specialties to choose from: Technology and nutrition, human nutrition and dietetics, technology of aquatic food.

Institution

- West Pomeranian University of Technology
Faculty of Food Sciences and Fisheries
ul. Królewicza 4, 71-550 Szczecin
Phone: +48 91 449 66 54
Email: dziekanat.wnozir@zut.edu.pl
Internet: <http://www.wnozir.zut.edu.pl>

Duration:

- 7 semesters

Biotechnology (B.Sc)

Biotechnology is any technological application that uses biological systems or living organisms to make or modify products or processes for specific use. Biotechnology course in West Pomeranian University of Technology is focused on animal and vegetal biotechnology.

Institution

- West Pomeranian University of Technology
Faculty of biotechnology and animal breeding
ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.pl

Duration:

- 7 semesters

Biotechnology (M,Sc.)

The candidate should have a bachelor's degree from biotechnology. The aim is to widen the knowledge that was gained during the first degree and to specialize in particular branch of biotechnology. There is a possibility to specialize in biotechnology in animal production and environmental protection, vegetal production or bioengineering in food production.

Institution

- West Pomeranian University of Technology
Faculty of biotechnology and animal breeding
ul. Doktora Judyma 26, 71-466 Szczecin
Phone: + 48 91 449 67 52
Email: dziekanat.biot@zut.edu.pl
Internet: www.biotechnologia.zut.edu.pl

Duration:

- 3 semesters

Biotechnology – special-ty medical biotechnology (B.A)

Biotechnology is any technological application that uses biological systems or living organisms to make or modify products or processes for specific use. Studies in Biotechnology prepare theoretically and practically for the application of biotechnology techniques in medicine, microbiology, with particular emphasis on molecular biology methods. Biotechnology in Pomeranian Medical University is focused on medical aspects. During the course of study, students will gain knowledge of basic physiology, microbiology, chemistry and biochemistry, genetic engineering, enzymology, biophysics or toxicology. Graduates are prepared to work in research institutions of the biotechnology industry and allied industries (pharmaceutical, cosmetical industry), research, testing and diagnostic laboratories or in departments involved in the design of biotechnological processes. After the course graduates earns a bachelor's degree.

Institution

- Pomeranian Medical University, Faculty of Medicine, Biotechnology and Laboratory Medicine
ul. Rybacka 1, 70-204 Szczecin
Phone no: +48 91 48 00 816 (817)
Email: rekrut@pum.edu.pl
Internet: www.pum.edu.pl

Duration

- 6 semesters

Biotechnology– special-ty medical biotechnology (M.A)

The initial admission requirement of Pomeranian Medical University is an initial bachelor's degree of biotechnology, biology, chemistry or master degree of medical laboratory science or pharmacy.). The aim is to widen the knowledge that was gained during the first degree and to specialize in particular branch of biotechnology.

Institution

- Pomeranian Medical University, Faculty of Medicine, Biotechnology and Laboratory Medicine
ul. Rybacka 1, 70-204 Szczecin
Phone no: +48 91 48 00 816 (817)
Email: rekrut@pum.edu.pl
Internet: www.pum.edu.pl

Duration

- 4 semesters

Medical laboratory science (M.A)

Medical laboratory science combines medical science related to the world of medicine, pharmacy and biotechnology. This faculty is designed to train specialists, medical laboratory scientists, who are performing diagnostic tests ordered by physicians. Medical laboratory scientist (also referred to as a medical technologist, a clinical scientist, or clinical laboratory technologist) performs chemical, hematological, immunologic, microscopic, and bacteriological diagnostic analyses on body fluids such as blood, urine, sputum, stool, cerebrospinal fluid, peritoneal fluid, pericardial fluid, and synovial fluid, as well as other specimens. Students of this faculty gain knowledge not only of general medical subjects such anatomy, physiology, histology, immunology, chemistry, first-aid but also of have practical classes such as hematological, microbiological, cytologic, biochemical or genetic diagnostics. Graduates of medical laboratory science are employed mostly in medical laboratories, but also in research laboratories, R&D centers, genetic laboratories, epidemiological units.

Institution

- Pomeranian Medical University, Faculty of Medicine, Biotechnology and Laboratory Medicine
ul. Rybacka 1, 70-204 Szczecin
Phone no: +48 91 48 00 816 (817)
Email: rekrut@pum.edu.pl
Internet: www.pum.edu.pl

Duration:

- 10 semesters

Medicine (doctor of medicine)

Future doctors should have skills on communication with the patient and his family; interview with the patient, examination, the proper selection of additional tests, setting the initial diagnosis, treatment, and assistance in life threatening conditions. Medical graduates should possess knowledge and practical skills in the field of prevention, treatment and rehabilitation, essential to the practice of medicine. Medical graduates can find employment in public and private health care, research institutions and R & D centers, institutions involved in counseling and dissemination of knowledge in the field of health education.

Institution

- Pomeranian Medical University, Faculty of Medicine
ul. Rybacka 1, 70-204 Szczecin
Phone no: +48 91 48 00 816 (817)
Email: rekrut@pum.edu.pl
Internet: www.pum.edu.pl

Duration:

- 12 semesters

Dentistry (doctor of dentistry)

Dentistry is the field of dealing with the functioning, pathology and treatment of the teeth, periodontal, oral mucous membranes. During the course students not only have theoretical classes, such as anatomy, chemistry, physiology, but also practical classes, where they treat patients. After finishing dentistry, graduates can choose one of the specialities: dental surgery, prosthodontics, dentistry, periodontics or children's dentistry.

Institution

- Pomeranian Medical University, Faculty of Medicine and Dentistry
ul. Rybacka 1, 70-204 Szczecin
Phone no: +48 91 48 00 816 (817)
Email: rekrut@pum.edu.pl
Internet: www.pum.edu.pl

Duration:

- 10 semesters

Szczecin University

Environmental protection

The course environmental protection is directed towards students who are interested in sustainability in combination with nature conservation.

Institution

- Szczecin University

al. Papieża Jana Pawła II 31
70-453 Szczecin
Phone.: +48 91 444 11 85
Email: dwz@univ.szczecin.pl

www.us.szcz.pl

Duration

- 8 semesters

Biotechnology

The course biotechnology is directed to students with the aim to widen the knowledge and to specialize in particular branch of biotechnology.

Institution

- Szczecin University

al. Papieża Jana Pawła II 31
70-453 Szczecin
Phone.: +48 91 444 11 85
Email: dwz@univ.szczecin.pl

www.us.szcz.pl

Duration

- 8 semesters

Geography

In Geography are discussed both problems with spatial aspects of economic and social sciences and problems with a scientific background. Geography is the science of the earth's surface in their spatial differentiation, their physical condition as well as space and place of human life and action.

Institution

- Szczecin University

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70-453 Szczecin
Phone.: +48 91 444 11 85
Email: dwz@univ.szczecin.pl

www.us.szc.pl

Duration

- 8 semesters

Tourism and recreation

The recreation and tourism industry is a growing and dynamic segment of society with lots of people-centered job opportunities. Tourism is the largest industry in the world

Institution

- Szczecin University

al. Papieża Jana Pawła II 31
70-453 Szczecin
Phone.: +48 91 444 11 85
Email: dwz@univ.szczecin.pl

www.us.szc.pl

Duration

- 8 semesters

List of sources

The descriptions of the contents of the course of study can be found in the websites of the particular research institutions.

