

FIELD OF STUDY CIVIL ENGINEERING**ENGINEERING COURSES**

Course title	ENGINEERING SURVEYING
Form*	Lecture and Tutorial
Level of course	ENGINEERING
Year/semester	Year I; semester 1.
ECTS	4
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	The aim of the course is to prepare the student to work with the basic map. Familiarization with basic geodetic works and their accuracy. Preparing the student to cooperate on the construction site with a surveyor.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Mgr inż. Agnieszka Jolanta Cieślak

Course title	CHEMISTRY
Form*	Lecture and Tutorial
Level of course	ENGINEERING
Year/semester	Year I; semester 1.
ECTS	3
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	The aim of the course is to master the basic concepts of general and inorganic chemistry with elements of physical chemistry, to master the basics of chemical calculations
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Mgr Izabela Salis

Course title	TECHNICAL DRAWING
Form*	Tutorial
Level of course	ENGINEERING
Year/semester	Year I; semester 1 and 2.
ECTS	6
Language of instruction	English
No. of hours	42
Course content (max. 1000 characters)	Learning autocad. Familiarization with Polish standards and markings from the technical construction drawing. Including: technical handwriting, line thickness, material designation. Practical use of knowledge in your own drawing.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Mgr inż. Ewa Gauze

Course title	ORGANIZATION OF CONSTRUCTION WORKS
Form*	Lecture and Tutorial
Level of course	ENGINEERING
Year/semester	Year II; semester 3.
ECTS	3
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	Providing knowledge about the course of the investment process in the construction industry and the characteristics of its participants. Providing detailed information about the organization of construction works.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Mgr inż. Zenon Szczepankowski

Course title	STRENGTH OF MATERIALS
Form*	Lecture and Tutorial
Level of course	ENGINEERING
Year/semester	Year 2; semester 3 and 4.
ECTS	11
Language of instruction	English
No. of hours	82
Course content (max. 1000 characters)	Familiarization with basic concepts and assumptions in strength Materials. Developing the ability to draw force graphs cross-sectional beams. Developing the ability to designate geometrical characteristics of cross-sections.
Assessment scheme	The course ends with a written exam and a project credit. Pupils' performance is also assessed on the basis of their regular attendance, active participation in classes, individual and group presentations, written assignments and tests.
Lecturer	dr hab. Monika Wągrowka

Course title	TECHNOLOGY AND ORGANIZATION OF WORKS CONSTRUCTION
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 2; semester 3 and 4.
ECTS	4
Language of instruction	English
No. of hours	36
Course content (max. 1000 characters)	Providing knowledge about the course of the investment process in the construction industry and the characteristics of its participants. Providing detailed information about the organization and technology of construction works.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Mgr inż. Zenon Szczepankowski

Course title	Hydraulics & Hydrology
Form*	Lecture and tutorial
Level of course	ENGINEERING,
Year/semester	Year 2; semester 4.
ECTS	5
Language of instruction	English
No. of hours	28
Course content (max. 1000 characters)	The aim of the course is to familiarize students with the basics of hydraulics and hydrology, to acquire the skills of hydraulic calculations of closed pipes working under pressure and to estimate the efficiency of selected groundwater intakes
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	dr inż. Piotr Wichowski

Course title	Engineering Geology
Form*	Lecture and tutorial
Level of course	ENGINEERING,
Year/semester	Year 2; semester 4.
ECTS	4

Language of instruction	English
No. of hours	20
Course content (max. 1000 characters)	The aim of the course is to familiarize students with the basic geological processes shaping the rocks of the Earth's crust, their physical and chemical properties and mutual spatial relations, as well as to familiarize them with the basic methods of documenting the geological structure and hydrogeological conditions. This knowledge should enable students to consciously use geological studies that can be carried out in connection with the erection of buildings or the development of land development conditions.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Dr hab. Tomasz Falkowski

Course title	Sanitary installations
Form*	Lecture and tutorial
Level of course	ENGINEERING,
Year/semester	Year 3; semester 5.
ECTS	2
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	Familiarizing students with the construction, operation and design principles of water, sewage and gas installations.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	dr inż. Piotr Wichowski

Course title	ELECTRICAL
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 3; semester 5.
ECTS	2
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	The main objective of the course is to achieve basic competences in the design, assembly, operation and maintenance of electrical equipment and installations in the construction industry, taking into account various formal and legal aspects. The next stage, as well as the goal, is to instill appropriate behaviors and attitudes that allow for economical generation, transmission and use of electricity in accordance with the assumptions.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	mgr inż. Wiesław Moszczyński

Course title	SOIL MECHANICS & FOUNDATIONS
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 3; semester 5.
ECTS	3
Language of instruction	English
No. of hours	24
Course content (max. 1000 characters)	Familiarization with the basic concepts and principles of soil mechanics for solving geotechnical tasks in structural engineering. The scope includes: soil classification, physical and mechanical properties, phenomena related to groundwater movement, stresses and deformations in the soil, and shear strength. Developing the ability to assess geotechnical parameters, calculate the bearing capacity and deformations of the ground, as well as soil pressure
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Dr inż. Emil Soból

Course title	FUNDAMENTALS OF ORGANIZATION AND MANAGEMENT IN CONSTRUCTION
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 3; semester 6.
ECTS	2
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	Students will use their knowledge to individually prepare a feasibility study of an investment with the use of consultations as part of subject exercises. During the lectures, students will be provided with the procedures for managing investment processes in international FIDIC standards.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	mgr inż. Zenon Szczepankowski

Course title	ARCHITECTURE AND URBAN PLANNING
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 4; semester 7.
ECTS	2
Language of instruction	English
No. of hours	14
Course content (max. 1000 characters)	Introduction to the history of architecture and urban planning. Designing for people with disabilities and for modern society
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Mgr inż Ewa Gauze

Course title	WATER SUPPLY AND SEWAGE SYSTEMS
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 3; semester 6.
ECTS	2
Language of instruction	English
No. of hours	20

Course content (max. 1000 characters)	Familiarizing students with the construction and operation of the water supply and sewage system as well as with the applicable legal regulations, standards and guidelines regarding the requirements for selected water supply and sewage facilities. Basics of designing selected elements of the water supply and sewage system.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Dr inż. Piotr Wichowski

Course title	UNCONVENTIONAL ENERGY SOURCES
Form*	Lecture and tutorial
Level of course	ENGINEERING
Year/semester	Year 3; semester 5.
ECTS	2
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	Expanding knowledge related to design, technology and principles of operation and capabilities applications of unconventional energy sources. Presentation of new opportunities in the field of energy harvesting and storage. Promotion clean energy technologies, taking into account environmental conditions, ecology and Efficiency.
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.
Lecturer	Dr inż. Piotr Wichowski

Course title	GEOTECHNICAL SURVEY TECHNIQUES
Form*	Tutorial
Level of course	ENGINEERING
Year/semester	Year 4; semester 7.
ECTS	3
Language of instruction	English
No. of hours	18
Course content (max. 1000 characters)	Familiarization with the types of geotechnical field surveys, the equipment used for in situ surveys and the principles of interpretation of the results. The scope includes the presentation of test methods for the purpose of determining subsoil parameters (learned on Soil Mechanics) depending on the requirements for the designed structures and objects (learned during the course of Civil Engineering and Foundations).
Assessment scheme	The course ends with a written examination. Students' performance is also assessed on the basis of their regular attendance, active class participation, individual and group presentations, written assignments and tests.

