



Lodz University
of Technology

Study programme

Faculty:	Faculty of Civil Engineering, Architecture and Environmental Engineering
Major:	Civil Engineering
Level of study:	first-cycle programme (inżynier)
Form of study:	full-time studies
Academic year:	2026/27

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Basic information

Name of the field of study:	Civil Engineering
Level of study:	first-cycle programme (inżynier)
Study profile:	general academic
Form of studies:	full-time studies
Duration of studies (number of semesters):	7
The number of ECTS points required to complete studies:	210
Total number of hours of classes:	2750
The number of ECTS points a student obtains as part of classes conducted with the direct participation of academic teachers or other persons conducting classes:	110
Professional title awarded to graduates:	inżynier
ISCED code:	0732
Language of study:	polish

Assigning the course to the disciplines to which the learning outcomes relate

Discipline	Percentage share
Civil engineering and transport	100%

Learning outcomes (in relation to the PQF)

No.	Learning outcome code	Learning Outcome Content	Reference to the universal characteristics of the first level of PRK	Reference to the second-level characteristics of the PRK, taking into account the second-level characteristics enabling the acquisition of engineering competences
1	1BUD1	Integrates knowledge of mathematics, physics, chemistry, descriptive geometry, computer science, mechanics, geology, and related fields to a degree that enables solving basic engineering problems in construction.	P6U_W	P6S_WG
2	1BUD10	Fulfills obligations toward the social environment and performs professional roles in an entrepreneurial and responsible manner.	P6U_K	P6S_KO, P6S_KR
3	1BUD2	Knows the principles of building design and assessment according to building physics, material selection, and construction technologies, and understands the impact of buildings on the environment throughout their full life cycle.	P6U_W	P6S_WG, P6S_WG_inž
4	1BUD3	Explains issues related to the design of simple building structures and knows the principles and methods for assessing the technical condition of existing buildings.	P6U_W	P6S_WG, P6S_WG_inž
5	1BUD4	Describes the technology and organization of the construction process, including digital technologies in planning and executing construction projects, management methods in construction, including team and company leadership, and recognizes the basic principles of creating and developing various forms of individual entrepreneurship.	P6U_W	P6S_WK, P6S_WK_inž
6	1BUD5	Applies knowledge from basic and related subjects to solve simple construction problems by selecting and using appropriate methods and tools, and creatively interprets and presents the obtained results.	P6U_U	P6S_UW, P6S_UW_inž
7	1BUD6	Solves simple problems in structural design as well as construction technology and organization, assesses the technical condition of buildings, and critically analyzes existing technical solutions.	P6U_U	P6S_UW, P6S_UW_inž
8	1BUD7	Manages the construction process and leads teams of people, including in a foreign language at the B2 level, ensuring the improvement of qualifications and the acquisition of knowledge through lifelong learning.	P6U_U	P6S_UK, P6S_UO, P6S_UU, P6S_UW_inž
9	1BUD8	Can plan and conduct experiments, measurements, and computer simulations, select building materials, and participate in testing and evaluating construction products.	P6U_U	P6S_UW, P6S_UW_inž
10	1BUD9	Critically evaluates own knowledge and skills, recognizes the importance of knowledge and opinions of national experts in the field, and respects diversity of views and cultures.	P6U_K	P6S_KK

Matrix of course modules in relation to learning outcomes and curriculum content

No.	Course name	Program content	1BUD1	1BUD10	1BUD2	1BUD3	1BUD4	1BUD5	1BUD6	1BUD7	1BUD8	1BUD9
1	Descriptive Geometry	Fundamentals of descriptive geometry with emphasis on their applications in civil engineering.	x					x				
2	Mathematics I	Fundamentals of mathematical analysis and linear algebra, including differential and integral calculus of functions of one variable, sequences and series, and matrix algebra.	x					x				x
3	Engineering Geology and Petrography	Fundamentals of engineering geology, identification of rocks and minerals, and knowledge related to their formation.			x						x	
4	Information Technologies I	Topics related to cybersecurity-safe use of a modern networked computer, working in the Windows operating system, the Office suite, and a selected mathematical software.	x					x				x
5	Building Materials	Building materials – classification and properties, with practical work using various types of materials.			x						x	
6	Technical Drawing	Fundamentals of technical and structural drawing, including the principles of creating drawings.	x					x				
7	Modern Physics	Wave physics in the context of electromagnetism, including the basics of the standard model and quantum mechanics.	x					x				x
8	Engineering Drawing	Creating technical drawings using CAD, including advanced methods for producing and printing 2D drawings.	x					x				
9	Theoretical Mechanics	Basic principles of mechanics, focusing on the statics of fundamental structural systems.	x						x			
10	Concrete Technology	Topics related to the composition, production, and properties of cement and concrete, including the influence of construction technology, material selection, and environmental conditions on concrete strength and durability.			x						x	
11	Mathematics II	Differential and integral calculus of functions of several variables, including elements of analytic geometry and differential equations.	x					x				x
12	Information Technologies II	Fundamentals of programming in Python.					x	x				
13	Geodesy	Fundamentals of geodesy, map creation, and field measurements.	x					x				
14	English B2 module I	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
15	English B2+ module I	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
16	German B2 module I	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		

No.	Course name	Program content	1BUD1	1BUD10	1BUD2	1BUD3	1BUD4	1BUD5	1BUD6	1BUD7	1BUD8	1BUD9
17	English C1 module I	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
18	Historical Building Structures	Development of timber, masonry, reinforced concrete, and steel structures and their typical solutions in the 19th and 20th centuries, with particular emphasis on the Polish lands.					x					x
19	Introduction to Architectural Design	Fundamentals and stages of the design process, including analysis, concept development, and architectural solutions, with particular emphasis on contemporary trends and the design of public spaces.	x									x
20	Engineer in the Modern World	Challenges of modern engineering, including human-environment interactions, technology, ecology, and sustainable development, as well as modern tools and work methods such as BIM, parametric design, VR/AR, and artificial intelligence, with a focus on ethics and teamwork.		x			x			x		
21	Mathematics III	Elements of vector field theory, series and function expansions, partial differential equations, and the basics of probability theory and random variables.	x					x				x
22	Building Physics	Issues of heat conduction and moisture transport in building envelopes.			x				x			
23	Construction Technology	General principles of designing traditional buildings, including the shaping of foundations, walls, and roofs.				x						
24	Road Transport Engineering	Fundamentals of designing roads, streets, and intersections.				x						
25	Installations in Civil Engineering with Hydrology Aspects	Principles of designing and operating water, sewage, and heating systems in buildings, including basic concepts and aspects of hydrology.	x			x		x				
26	Strength of Materials I	Fundamentals of strength of materials, covering compression, tension, bending, shear, and selected combined stress states.										
27	Economics in Civil Engineering	Basic principles of economics, both macro and micro, with a special focus on the construction industry.		x			x					
28	English B2 module II	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
29	English B2+ module II	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
30	German B2 module II	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
31	English C1 module II	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
32	Strength of Materials II	Fundamentals of strength of materials, focusing on torsion and second-order theory.	x			x			x			
33	Building Mechanics I	Fundamentals of structural mechanics for statically determinate systems, including the force method for statically indeterminate systems.	x			x			x			

No.	Course name	Program content	1BUD1	1BUD10	1BUD2	1BUD3	1BUD4	1BUD5	1BUD6	1BUD7	1BUD8	1BUD9
34	Energetical Certification	Building heat balance, basics of life cycle analysis, and identification of environmental impact aspects.			x				x			
35	Timber Structures	Principles of designing timber structures, including structural elements and their connections.				x	x		x			
36	Traditional Structures	Principles of designing traditional structures, including masonry walls and ribbed slabs, with applicable technical requirements.				x	x		x			
37	Soil Mechanics	Fundamentals of soil mechanics, including the presence of water, soil deformability, and stability issues.	x		x				x		x	
38	English B2 module III	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
39	English B2+ module III	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
40	German B2 module III	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
41	English C1 module III	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
42	Modern Materials and Finishing Technologies	Types and properties of modern building materials, and technologies for their use in finishing and protecting buildings.			x						x	
43	Technical Specifications for the Preparation, Execution, and Acceptance of Construction Works	Technical requirements and procedures related to the preparation, execution, and acceptance of construction works, as well as the commissioning of buildings.					x		x			
44	Geodetic and geotechnical practices	Field activities associated with surveying and soil mechanics.	x		x	x		x				
45	Foundation Engineering	Design of shallow foundations (footings, strips, slabs) and deep foundations (piles).			x	x			x			
46	Steel Structures I	Design of steel structures, covering compression, tension, and bending of elements, including planar frames, beams, and their connections.				x			x			
47	Interdisciplinary Team Project - PBL	Solving the assigned problem and working in a multidisciplinary project team.	x							x		x
48	Basics of Technology and Management of Construction Works	Technology of performing various construction works, including material transport, site preparation and management, as well as executing different types of construction tasks.				x			x			
49	Building Mechanics II	Statically indeterminate structures – displacement method and fundamentals of stability.	x			x			x			
50	Numerical Methods in Engineering	Introduction to the finite element method for one- and two-dimensional mechanical problems.			x		x		x			
51	Concrete Structures I	Concrete properties and principles of designing reinforced concrete slabs, columns, and beams.				x			x		x	

No.	Course name	Program content	1BUD1	1BUD10	1BUD2	1BUD3	1BUD4	1BUD5	1BUD6	1BUD7	1BUD8	1BUD9
52	English B2 module IV	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
53	English B2+ module IV	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
54	German B2 module IV	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
55	English C1 module IV	Depending on the chosen language and in accordance with the details of the curriculum.					x			x		
56	Dynamics and Vibrations	Various types of vibrations – theory and experimental studies.				x			x			
57	Technology of Assembly Works	Principles of safe assembly of prefabricated structures, including the design of transportation and installation technologies for structural elements.				x			x			
58	Steel Structures II	Design of steel halls and multi-story high-rise buildings, including computer-based modeling of steel structures.				x	x		x			
59	Concrete Structures II	Principles of designing reinforcement for slabs, foundations, and stairs, including building spatial stiffness and expansion joint considerations.				x	x		x			
60	Prefabricated Construction Systems	Design of precast reinforced concrete elements, including connection detailing and technological considerations. Use of modern software for modeling and analyzing engineering structures.				x						
61	Investment Process Management – Summative Module	Comprehensive planning, organization, and supervision of the investment process, including project management, construction workflow, and investment costs.				x	x		x	x		
62	Fire Safety of Building Structures	Legal, theoretical, and practical aspects of fire effects on different types of building structures.				x						
63	Internships	Performs tasks assigned by the company where the construction internship takes place.		x			x			x		
64	Internships	Performs tasks assigned by the design office where the internship takes place, assisting in the preparation of construction design documentation.		x			x			x		
65	Final Project	A diploma thesis may consist of: a) a design for a simple building structure or engineering facility, b) a design for the construction process organization, c) a calculation of the building's energy demand, d) a conceptual design for the reconstruction of an crossroad, e) a road course analysis, f) an in-depth case study of a construction investment, g) a report on the conducted experimental research, h) an individual engineering problem proposed by the thesis supervisor.			x						x	x
66	Computer Road Design	Computer-aided aspects of road design, including terrain modeling, geometric design of roads and intersections, drainage, and project visualization and graphic documentation.				x			x			

No.	Course name	Program content	1BUD1	1BUD10	1BUD2	1BUD3	1BUD4	1BUD5	1BUD6	1BUD7	1BUD8	1BUD9
67	Bridge and Engineering Facilities	Bridge structural elements: their classification, analysis, and design.										
68	Selected issues in the Methodology of Research on Building Materials and Concrete Technology	Summary topics in building physics and general construction.			x	x						
69	Summary of Topics in the Methodology of Research on Building Materials and Concrete Technology	Summary topics in the methodology of testing building materials and concrete technology.			x	x						
70	Selected issues in Building Physics and General Construction	Summary topics in the design of building and engineering structures.			x	x						
71	Selected issues in Construction Technology and the Economics of Construction Investments	Summary topics in construction investment technology and economics.			x		x					
72	Construction Law in the Investment Process	Fundamentals of construction law, including the rights and obligations of participants in the investment process, professional ethics, building standards, and case studies.					x		x			
73	Diploma Seminar	Diploma regulations, methodology for preparing the diploma thesis, individual thesis presentations and the rules and procedures for the competency exam, including topics preparing for the exam.									x	x

ECTS - subjects

No.	Course name	ECTS	Subjects in the field of humanities and social sciences	Elective subjects	Profile items	Classes in a foreign language
1	Descriptive Geometry	4				
2	Mathematics I	7				
3	Engineering Geology and Petrography	4				
4	Information Technologies I	4				
5	Building Materials	5				
6	Technical Drawing	3				
7	Modern Physics	3				
8	Engineering Drawing	2				
9	Theoretical Mechanics	5			5	
10	Concrete Technology	5			5	
11	Mathematics II	7				
12	Information Technologies II	2			2	
13	Geodesy	3				
14	English B2 module I	2		2		
15	English B2+ module I	2		2		
16	German B2 module I	2		2		
17	English C1 module I	2		2		
18	Historical Building Structures	2	2	2		
19	Introduction to Architectural Design	2	2	2		
20	Engineer in the Modern World	2	2	2		

No.	Course name	ECTS	Subjects in the field of humanities and social sciences	Elective subjects	Profile items	Classes in a foreign language
21	Mathematics III	3				
22	Building Physics	4			4	
23	Construction Technology	5			5	
24	Road Transport Engineering	4				
25	Installations in Civil Engineering with Hydrology Aspects	4				
26	Strength of Materials I	6				
27	Economics in Civil Engineering	2	2			
28	English B2 module II	2		2		
29	English B2+ module II	2		2		
30	German B2 module II	2		2		
31	English C1 module II	2		2		
32	Strength of Materials II	6			6	
33	Building Mechanics I	4			4	
34	Energetical Certification	2		2	2	
35	Timber Structures	3		3	3	
36	Traditional Structures	4		4	4	
37	Soil Mechanics	5			5	
38	English B2 module III	2		2		
39	English B2+ module III	2		2		
40	German B2 module III	2		2		
41	English C1 module III	2		2		

No.	Course name	ECTS	Subjects in the field of humanities and social sciences	Elective subjects	Profile items	Classes in a foreign language
42	Modern Materials and Finishing Technologies	2		2		
43	Technical Specifications for the Preparation, Execution, and Acceptance of Construction Works	2		2		
44	Geodetic and geotechnical practices	2		2		
45	Foundation Engineering	4			4	
46	Steel Structures I	5			5	
47	Interdisciplinary Team Project - PBL	4		4		
48	Basics of Technology and Management of Construction Works	3				
49	Building Mechanics II	4			4	
50	Numerical Methods in Engineering	2			2	
51	Concrete Structures I	5			5	
52	English B2 module IV	3		3		
53	English B2+ module IV	3		3		
54	German B2 module IV	3		3		
55	English C1 module IV	3		3		
56	Dynamics and Vibrations	3				3
57	Technology of Assembly Works	2		2	2	
58	Steel Structures II	6			6	
59	Concrete Structures II	6			6	
60	Prefabricated Construction Systems	4			4	
61	Investment Process Management – Summative Module	7		7	7	
62	Fire Safety of Building Structures	2		2	2	

No.	Course name	ECTS	Subjects in the field of humanities and social sciences	Elective subjects	Profile items	Classes in a foreign language
63	Internships	6		6		
64	Internships	6		6		
65	Final Project	15		15	15	
66	Computer Road Design	2		2		
67	Bridge and Engineering Facilities	2		2		
68	Selected issues in the Methodology of Research on Building Materials and Concrete Technology	1		1		
69	Summary of Topics in the Methodology of Research on Building Materials and Concrete Technology	1		1		
70	Selected issues in Building Physics and General Construction	1		1		
71	Selected issues in Construction Technology and the Economics of Construction Investments	1		1		
72	Construction Law in the Investment Process	3			3	
73	Diploma Seminar	2				

ECTS indicators

Name	Value
The total number of ECTS credits that a student must obtain through elective courses (amounting to no less than 30% of the total ECTS credits required to obtain the qualification corresponding to the given level of study)	66/210 (31.43%)
The total number of ECTS credits to be earned by a student through courses in the fields of humanities or social sciences	6
The total number of ECTS credits that a student must obtain from courses related to research conducted at the university, amounting to more than 50% of the total ECTS credits required to graduate from a given level of study	110/210 (52.38%)

Methods of verifying and assessing learning outcomes

The verification of achieved learning outcomes requires the use of diverse assessment methods appropriate to the categories of knowledge, skills, and social competencies to which these outcomes pertain. The selection of suitable tools also depends on the specific nature of the subject and the format of the classes and is described in detail in the course syllabi. The achievement of the required learning outcomes is assessed through:

1. Written assignments (exams, quizzes, reports, essays, projects, posters, thesis, etc.);
2. Oral assessments (oral exams, public speaking, e.g., delivering a paper, presentation, etc.);
3. Practical and/or project-based tasks (both individual and group work);
4. Observation and evaluation of students' participation and activity during classes;
5. Self-assessment and peer evaluation (especially in the case of group projects);
6. Competency exams and final diploma examinations.

Verification can be formative (partial, conducted multiple times during the course) and/or summative (final grade assessment). The final verification result is given according to the currently applicable grading scale.

The course coordinator or instructor is required to present the course syllabus during the first class and to clearly define and formally communicate the assessment methods and conditions for verifying learning outcomes.

Professional internships

Duration: 6 weeks

ECTS credits: 6

Internships are carried out in accordance with the study program in a format adapted to the profile and specifics of the field of study, following the regulations set by the faculty and the university.

Specializations/degree paths offered within the study program

Characteristics of the course

Graduate profile

The graduate is primarily prepared to work in broadly understood construction execution as well as in a design office, participating in the development of typical projects. The acquired knowledge and skills also enable employment in architectural and construction administration units in various positions.

Graduates of this program may apply, after completing a professional internship, for licenses to perform independent technical functions in construction. Therefore, the curriculum content is consulted with the Łódź Regional Chamber of Civil Engineers as a representative of the professional community.

The graduate is also prepared to participate in experiments and research related to the field of civil engineering and to pursue further education in second-cycle (master's) studies.

The relationship between the field of study and the university's strategy

The implementation of the Civil Engineering study program at Lodz University of Technology constitutes a direct response to the objectives set out in the University's mission and strategy for 2025–2030. The mission of Lodz University of Technology is to build a sustainable research university with a strong academic community, providing modern education and innovation for the benefit of society and the economy. This field of study fully aligns with this mission by educating highly qualified professionals capable of carrying out advanced construction projects, thereby supporting the University's vision as a valued partner for the economy.

In accordance with the strategic area of EDUCATION, the study program employs modern teaching methods and offers flexible development paths, enabling the individualization of the process of shaping graduates' competencies and effective talent management. The implementation of a modern curriculum and maintaining a high level of education for competent professionals to meet the needs of the economy and public administration ensures a direct link with the strategic objectives. The Civil Engineering program actively supports the achievement of the overall goal in the IMPACT area by contributing to the country's economic development through the preparation of engineers ready to solve technical problems in the socio-economic environment.

The proposed study program also addresses the need for the development of applied science and modern engineering solutions, particularly in the key strategic area of SUSTAINABILITY. Civil engineering today faces the challenges of sustainable design and reducing the environmental impact of investments, which aligns with the University's efforts to develop solutions that facilitate the achievement of sustainable development goals. Moreover, this program strengthens the research and teaching potential of Lodz University of Technology by enabling work focused on the real expectations of industry.

An important element of the program, directly implementing the main theme of the strategy—COOPERATION—is the interdisciplinary team project carried out in the fifth semester. It fosters and systematically supports student activity while building social competencies essential for the labor market. Working in groups enhances openness, engagement, and a professional approach to assigned tasks, forming the foundation of the values adopted by the academic community. This approach supports the achievement of specific objectives in the STUDENTS area, preparing graduates for the dynamically changing demands of the construction sector.

Educational objectives and employment and continuing education opportunities

The primary educational objectives are to equip graduates—civil engineers—with a body of knowledge, including both specialized and managerial expertise, as well as the ability to effectively use information technology tools.

Graduates develop a commitment to continuous improvement of their skills and should be able to adapt flexibly to the demands of the labor market within an integrated Europe.

Graduates of the Civil Engineering program are prepared to take up employment in the construction industry both domestically and abroad. They may work in design offices or begin their professional careers as assistant staff in construction execution and supervision. They are also capable of collaborating with specialists from other technical fields. After completing a professional internship, they may apply for licenses:

- to manage construction works without limitations in the following specializations: structural and building engineering, bridge engineering, road engineering, railway engineering (in the field of railway structures), hydraulic engineering, and demolition engineering,

- to manage construction works within a limited scope in the architectural specialization and in the installation specialization covering thermal, ventilation, gas, water supply, and sewage systems,
- to design within a limited scope in the following specializations: structural and building engineering, bridge engineering, road engineering, railway engineering (in the field of railway structures), hydraulic engineering, and demolition engineering.

Graduates of the Civil Engineering program are also prepared to run their own business, work in government and local administration institutions, and further develop their professional competencies, including pursuing second-cycle (master's) studies.

Description of the process and outcome of consultations on the proposed study program with the socio-economic environment

The program was reviewed by the Łódź Regional Chamber of Civil Engineers, the body responsible for granting construction licenses and representing employers associated with the construction and installation industry.

Description of competencies expected from a candidate applying for admission to studies

In accordance with the applicable admission resolution for a given academic year.

The unit organizing education

Faculty of Civil Engineering, Architecture and Environmental Engineering

Education program

Semester 1

Course	Number of hours	ECTS points	Form of verification	Obligatory
Descriptive Geometry	Laboratory classes: 30 Lecture: 15	4	Exam	Obligatory
Mathematics I	Tutorials: 60 Lecture: 30	7	Graded assignment	Obligatory
Engineering Geology and Petrography	Laboratory classes: 15 Lecture: 30	4	Graded assignment	Obligatory
Information Technologies I	Laboratory classes: 30 E-learning: 15	4	Graded assignment	Obligatory
Building Materials	Laboratory classes: 30 Lecture: 30	5	Graded assignment	Obligatory
Technical Drawing	Laboratory classes: 30	3	Graded assignment	Obligatory
Modern Physics	Laboratory classes: 15 Lecture: 15	3	Graded assignment	Obligatory
Sum	345	30		

Semester 2

Course	Number of hours	ECTS points	Form of verification	Obligatory
Engineering Drawing	Laboratory classes: 45	2	Graded assignment	Obligatory
Theoretical Mechanics	Project work: 30 Lecture: 30	5	Exam	Obligatory
Concrete Technology	Laboratory classes: 30 Lecture: 30	5	Exam	Obligatory

Course	Number of hours	ECTS points	Form of verification	Obligatory
Mathematics II	Tutorials: 60 Lecture: 30	7	Exam	Obligatory
Information Technologies II	Laboratory classes: 30 Lecture: 15	2	Graded assignment	Obligatory
Geodesy	Laboratory classes: 45 Lecture: 15	3	Graded assignment	Obligatory
Foreign Language Module 1		2	Graded assignment	Obligatory group
The student chooses 1 module				
English B2 module I	Tutorials: 30	2	Graded assignment	Optional
English B2+ module I	Tutorials: 30	2	Graded assignment	Optional
German B2 module I	Tutorials: 30	2	Graded assignment	Optional
English C1 module I	Tutorials: 30	2	Graded assignment	Optional
Elective Courses 1		4	Graded assignment	Obligatory group
The student chooses 1 subject				
Historical Building Structures	Lecture: 15	2	Graded assignment	Optional
Introduction to Architectural Design	Lecture: 15	2	Graded assignment	Optional
Engineer in the Modern World	Lecture: 15	2	Graded assignment	Optional
Sum	420	30		

Semester 3

Course	Number of hours	ECTS points	Form of verification	Obligatory
Mathematics III	Tutorials: 45	3	Graded assignment	Obligatory
Building Physics	Laboratory classes: 30 Lecture: 15	4	Graded assignment	Obligatory

Course	Number of hours	ECTS points	Form of verification	Obligatory
Construction Technology	Project work: 30 Lecture: 30	5	Exam	Obligatory
Road Transport Engineering	Project work: 30 Lecture: 15	4	Graded assignment	Obligatory
Installations in Civil Engineering with Hydrology Aspects	Laboratory classes: 15 Project work: 15 Lecture: 15	4	Graded assignment	Obligatory
Strength of Materials I	Tutorials: 30 Project work: 30 Lecture: 30	6	Graded assignment	Obligatory
Economics in Civil Engineering	Tutorials: 15 Lecture: 15	2	Graded assignment	Obligatory
Foreign Language Module 2		2	Graded assignment	Obligatory group
The student chooses 1 module				
English B2 module II	Tutorials: 30	2	Graded assignment	Optional
English B2+ module II	Tutorials: 30	2	Graded assignment	Optional
German B2 module II	Tutorials: 30	2	Graded assignment	Optional
English C1 module II	Tutorials: 30	2	Graded assignment	Optional
Physical Education 1	Tutorials: 30	0	Pass	Obligatory
Sum	420	30		

Semester 4

Course	Number of hours	ECTS points	Form of verification	Obligatory
Strength of Materials II	Laboratory classes: 15 Project work: 30 Lecture: 30	6	Exam	Obligatory

Course	Number of hours	ECTS points	Form of verification	Obligatory
Building Mechanics I	Project work: 45 Lecture: 15	4	Graded assignment	Obligatory
Energetical Certification	Laboratory classes: 15 Lecture: 15	2	Graded assignment	Obligatory subjects to choose from
Timber Structures	Project work: 30 Lecture: 15	3	Graded assignment	Obligatory subjects to choose from
Traditional Structures	Project work: 30 Lecture: 15	4	Exam	Obligatory subjects to choose from
Soil Mechanics	Laboratory classes: 15 Project work: 30 Lecture: 30	5	Exam	Obligatory
Foreign Language Module 3		2	Graded assignment	Obligatory group
The student chooses 1 module				
English B2 module III	Tutorials: 30	2	Graded assignment	Optional
English B2+ module III	Tutorials: 30	2	Graded assignment	Optional
German B2 module III	Tutorials: 30	2	Graded assignment	Optional
English C1 module III	Tutorials: 30	2	Graded assignment	Optional
Physical Education 2	Tutorials: 30	0	Graded assignment	Obligatory
Elective Courses 2		2	Graded assignment	Obligatory group
The student chooses 1 subject				
Modern Materials and Finishing Technologies	Laboratory classes: 30	2	Graded assignment	Optional
Technical Specifications for the Preparation, Execution, and Acceptance of Construction Works	Project work: 15 Lecture: 15	2	Graded assignment	Optional
Geodetic and geotechnical practices	Internship: 50	2	Pass	Obligatory subjects to choose from
Sum	470	30		

Semester 5

Course	Number of hours	ECTS points	Form of verification	Obligatory
Foundation Engineering	Project work: 45 Lecture: 15	4	Graded assignment	Obligatory
Steel Structures I	Tutorials: 30 Project work: 30 Lecture: 30	5	Graded assignment	Obligatory
Interdisciplinary Team Project - PBL	Project work: 60	4	Graded assignment	Obligatory subjects to choose from
Basics of Technology and Management of Construction Works	Project work: 15 Lecture: 30	3	Graded assignment	Obligatory
Building Mechanics II	Project work: 45 Lecture: 15	4	Exam	Obligatory
Numerical Methods in Engineering	Laboratory classes: 15 Lecture: 15	2	Graded assignment	Obligatory
Concrete Structures I	Laboratory classes: 30 Project work: 30 Lecture: 15	5	Graded assignment	Obligatory
Foreign Language Module 4		3	Exam	Obligatory group
The student chooses 1 module				
English B2 module IV	Tutorials: 30	3	Exam	Optional
English B2+ module IV	Tutorials: 30	3	Exam	Optional
German B2 module IV	Tutorials: 30	3	Exam	Optional
English C1 module IV	Tutorials: 30	3	Exam	Optional
Sum	450	30		

Semester 6

Course	Number of hours	ECTS points	Form of verification	Obligatory
Dynamics and Vibrations	Laboratory classes: 30 Lecture: 15	3	Graded assignment	Obligatory
Technology of Assembly Works	Project work: 15 Lecture: 15	2	Graded assignment	Obligatory subjects to choose from
Steel Structures II	Laboratory classes: 45 Project work: 30 Lecture: 15	6	Exam	Obligatory
Concrete Structures II	Laboratory classes: 30 Project work: 30 Lecture: 30	6	Exam	Obligatory
Prefabricated Construction Systems	Laboratory classes: 30 Project work: 15 Lecture: 15	4	Graded assignment	Obligatory
Investment Process Management – Summative Module	Project work: 75	7	Graded assignment	Obligatory subjects to choose from
Fire Safety of Building Structures	Laboratory classes: 15 Lecture: 15	2	Graded assignment	Obligatory subjects to choose from
Physical Education 3	Tutorials: 30	0	Pass	Obligatory
Sum	450	30		

Semester 7

Course	Number of hours	ECTS points	Form of verification	Obligatory
Final Project	Diploma Thesis: 0	15	Pass	Obligatory subjects to choose from
Elective Courses 3		2	Graded assignment	Obligatory group
The student chooses 1 subject				
Computer Road Design	Laboratory classes: 30	2	Graded assignment	Optional
Bridge and Engineering Facilities	Project work: 15 Lecture: 15	2	Graded assignment	Optional
Elective Courses 4		2	Graded assignment	Obligatory group
The student chooses 1 subject				
Selected issues in the Methodology of Research on Building Materials and Concrete Technology	Lecture: 20	1	Graded assignment	Optional
Summary of Topics in the Methodology of Research on Building Materials and Concrete Technology	Lecture: 20	1	Graded assignment	Optional
Selected issues in Building Physics and General Construction	Lecture: 20	1	Graded assignment	Optional
Selected issues in Construction Technology and the Economics of Construction Investments	Lecture: 20	1	Graded assignment	Optional
Construction Law in the Investment Process	Seminar: 20 Project work: 10 Lecture: 30	3	Graded assignment	Obligatory
Diploma Seminar	Seminar: 30	2	Graded assignment + exam	Obligatory
Elective Course 5		6	Pass	Obligatory group
Student wybiera 1 przedmiot				
Internships	Internship: 0	6	Pass	Optional
Internships	Internship: 0	6	Pass	Optional
Sum	160	30		