Civil Engineering Faculty WUT
Field of study: Civil Engineering
Level of study: first degree (B.Sc.)
Profile of education: general academic
Form of study: full-time in English

FIRST DEGREE STUDIES (B.Sc.): INFORMATION ON THE CURRICULUM
Study Programme is Valid for Students Starting Education in Academic Year 2025/2026

Wydział Inżynierii Lądowej PW
Kierunek studiów: **Budownictwo**
Poziom kształcenia: **studia I stopnia**
Profil kształcenia: **ogólnoakademicki**
Forma studiów: **stacjonarne anglojęzyczne**

The following table summarises the curriculum across ROK 1 (sem.1, sem.2), ROK 2 (sem.3, sem.4), ROK 3 (sem.5, sem.6), and ROK 4 (sem.7). Columns per semester: h (hours), ECTS, W (Lecture), C (Tutorial), ZK, Lek (Language course), L (Laboratory), P (Project).

#	Course Unit	sem.1 h	ECTS	W	C	ZK	L	P	sem.2 h	ECTS	W	C	ZK	L	P	sem.3 h	ECTS	W	C	Lek	ZK	L	P	sem.4 h	ECTS	W	C	Lek	ZK	L	P	sem.5 h	ECTS	W	C	Lek	ZK	L	P	sem.6 h	ECTS	W	C	ZK	L	P	sem.7 h	ECTS	W	C	ZK	L	P
1	FOREIGN LANGUAGE *) C1 Academic exam passed no later than in the 6th semester of studies															60	4			60				60	4			60				60	4			60																	
2	HES - Decision making and Negotiation Theory	15	1	15																																																	
3	HC - Project Managment / HC - Business Activities (elective course)								25	2	10	15																																									
4	HC - History of architecture / HC - Social-Cultural Aspects of Extreme Construction (elective course)																																						25	2	25											
5	Algebra with Geometry	60	5	30	30																																															
6	Calculus I, Calculus II	60	5	30	30				50	4	20	30																																								
7	Numerical Methods															40	3	10			30																																
8	Technical Drawing I, Technical Drawing II	25	2					25	30	2			30																																							
9	Descriptive Geometry I, Descriptive Geometry II	25	2	10				15	25	2	10				15																																					
10	Information Technologies	30	2			30																																														
11	Informatics I - Basics of Programming (Visual Basic/Python) (elective course)								25	2			25																																							
12	Computer Methods in Construction / Computer Methods in Transportation Engineering (elective course)																															40	3	10			30															
13	Informatics II - Basics of BIM																																						25	2			25								
14	Applied Physics / Modern Physics (elective course)	30	2	30																																																
15	Experimental Physics								30	2	9			21																																							
16	Building Physics																															45	3	15	15			15														
17	Building Chemistry	50	4	20			30																																													
18	Building Materials I, Building Materials II								50	4	20				30	55	4	15	5		35																																
19	Road Materials															15	1	5			10																																
20	Theoretical Mechanics I, Theoretical Mechanics II	30	2	10	5			15	35	3	10	25																																								
21	Strength of Materials I, Strength of Materials II								60	5	30	20			10	90	7	30	30		15	15																															
22	Mechanics of Structures I, Mechanics of Structures II																							50	4	20	15				15	50	4	20	15			15														
23	Surveying I, Surveying II	40	3	15	15		10		25	2	10				15																																					
24	Introduction to Civil Engineering	25	2	25																																																
25	Fundamentals of Building with Sustainable Development and Circular Economy								25	2	15				10																																					
26	Fundamentals of Building I, Fundamentals of Building II															35	3	20					15	30	2						30																					
27	Fire Safety															15	1	15																																	
28	Building Installations																																													30	2		15			15
29	Architecture and Urban Planning																																						30	2	10				20							
30	Hydraulics and Hydrology																							25	2	10					15																					
31	Engineering Geology															40	3	15	15			10																														
32	Soil Mechanics and Geotechnical Engineering I, Soil Mechanics and Geotechnical Engineering II																							65	5	20	5				40	50	4	20				30														
33	Timber Structures															25	2	10				15																														
34	Concrete Structures I, Concrete Structures II																							50	4	20					30	50	4	20			15	15														
35	Metal Structures I, Metal Structures II																							50	4	20					30	50	4	20				30														
36	Fundamentals of Roads Engineering I, Fundamentals of Roads Engineering II															25	2	10				15		25	2	10					15																					
37	Introduction to Railways																																						25	2	10				15							
38	Basics of Underground Structures																																						25	2	10				15							
39	Fundamentals of Bridge Engineering																																						50	4	20				30							
40	Technology of Building Works I, Technology of Building Works II																							45	3	45						45	3					45														
41	Technology and Organization of Works in Infrastructure Engineering																															15	1	5				10														
42	Basics of Organization and Management Construction																																						50	4	20				30							
43	Economics and cost estimation in general construction / Economics and cost estimation in infrastructure construction (elective course)																																						30	2			30								
44	Reinforced concrete structures of multi-storey buildings / Reinforced concrete and prestressed concrete structures (elective course)																																						40	3	15				25							
45	Steel structures of multi-storey buildings / Steel structures with composite floors (elective course)																																						40	3	15				25							
46	Renewable Energy Sources in Buildings / Renewable Energy Sources in Infrastructure (elective course)																																						30	2	10	20										
47	Energy Efficiency in Buildings / Energy Efficiency in Infrastructure (elective course)																																						30	2	10	20										
48	Integrated Project (elective course)																																													50	4					50
49	Elective course (free selection)																																													25	2					
50	Elective course (free selection)																																													25	2					
51	Diploma Seminar																																													15	1	15				
52	Diploma thesis and preparation to diploma examination																																														15					
53	Physical Education								30			30				30				30				30				30																										
54	Internship (4 weeks after sem. 6, elective)																																													100	4					

	sem.1						sem.2						sem.3							sem.4							sem.5							sem.6						sem.7					
Total classes in semester	390	185	80	30	40	55	410	134	120	55	66	35	430	130	80	60	30	70	60	430	145	50	60	0	40	135	405	110	30	60	30	15	160	400	145	40	55	0	160	145	0	30	0	0	65
Classes per week	26						27,3						28,7							28,7							27							26,7						9,7					
ECTS per semester	30						30						30							30							30							30						30					
ECTS per year	60												60														60													30					
Accumulated ECTS	30						60						90							120							150							180						210					

Notation: W-Lecture; C-Tutorial; L-Laboratory; P-Project; Lek- Language course
Examination

OMNIS2
Otwartość. Modernizacja. Nowoczesność. Integracja. Społeczność.

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