

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

Wydział Inżynierii Lądowej PW
Kierunek studiów: Budownictwo
Poziom kształcenia: studia II stopnia
Profil kształcenia: ogólnoakademicki
Specjalność: Konstrukcje Budowlane i Inżynierskie
Forma studiów: stacjonarne anglojęzyczne

Curriculum for graduate (second cycle) studies, Specialization: Civil Engineering Structures

Valid for studies starting on 2022/2023, 2023/2024 and 2024/2025 academic year

No.	Course Unit	First YEAR												Second YEAR							
		sem.1						sem.2						sem.3							
		h	ECTS	W	C	L	P	h	ECTS	W	C	L	P	h	ECTS	W	C	L	P		
Courses common for all Specializations																					
1.	HC - Intellectual property law	15	1	15																	
2.	HC - Building law	15	1	15																	
3.	HC - Elective 1	15	1	15																	
4.	HC - Elective 2							30	2	15	15										
5.	HC - Decision making and negotiation theory													15	1		15				
6.	Diploma seminar													30	2		30				
7.	Dissertation and defence														20						
Specialization Courses																					
1.	Mathematics – selected issues	75	5	30	45																
2.	Timber strictures	45	3	15	15		15														
3.	Concrete structures	45	4	15			30														
4.	Metal structures	45	4	15			30														
5.	Engineering of building materials	45	2	30	15																
6.	Theory of elasticity and plasticity	60	4	30	15		15	30	3	15		15									
7.	Design methodology of construction processes													45	2	15			30		
8.	Computer methods for structural design							45	4	15	30										
9.	Mechanics of structures							45	4	30		15									
10.	Finite element method	30	3	15			15														
11.	Reliability of structures							30	2		30										
12.	Special concrete structures							60	4	30		30									
13.	Special metal structures							60	4	30		30									
14.	Building fire safety	30	2	15			15														
15.	Computer-aided design of structures													45	2		45				
16.	Industrial concrete construction							45	3	15		30									
17.	Industrial metal construction													45	3	15			30		
18.	Elective courses (2 courses of 30h/2ECTS each)							60	4												
	Classes per week	28						27						12							
	ECTS per semester	30						30						30							
	Acumulated ECTS	30						60						90							
	Total classes in hours	1005	420					405						180							

Notation: W-Lecture; C-Tutorial; L-Laboratory; P-Project

- examination

3.	HC - elective:
3.1.	Rail Transport Safety, Security and Cybersecurity
3.2.	Risk Assessment for Guided Transport Systems

Zatwierdzony Uchwałą Rady Wydziału z dnia 28.03.2012r., ze zmianami z dnia 27.05.2015r., 1.07.2015 i 21.12.2016 r. oraz zmianami wprowadzonymi Uchwałą Senatu 22.06.2022r.