

# CIVIL ENGINEERING

Subjects available to choose from on each year/semester are marked with ECTS points and highlighted in colour.

Lp	SUBJECT NAME	1st Year		2nd Year		3rd Year		4th year
		1st semester (winter)	2nd semester (summer)	3rd semester (winter)	4th semester (summer)	5th semester (winter)	6th semester (summer)	7th semester (winter)
<b>General</b>								
1	Ergonomics and health & safety							1
2	Foreign language	2	2	2	2			
3	Intellectual property protection	1						
4	Geodesy practice (2 weeks after 2nd semester)		2					
5	Geotechnics practice (2weeks after 4th semester)				2			
6	Sociology	3						
7	IT	2						
8	Physical Education	1	1					
<b>Fundamental Sciences</b>								
9	Chemistry	4						
10	Physics	4	3					
11	Geology		2					
12	Mathematics	4	4					
13	Theoretical mechanics		4					
14	Computational methods			2				
15	Mathematical Statistics			3				
<b>Specialised sciences</b>								
16	Transportation Engineering				4			
17	General Engineering			5	5			
18	Building economics					3		
19	Building physics				4			
20	Foundation work						3	
21	Geodesy		2					
22	Descriptive geometry	5						
23	Hydraulics		2					
24	Hydrology		1					
25	Building installations				5			
26	Management of investment processes							2

27	Wood and wall constructions					3		
28	Concrete constructions					4	4	
29	Metal constructions					5		
30	Construction materials and concrete technology		3	5				
31	Building mechanics			5	4			
32	Ground mechanics			4				
33	Organization of construction production						2	
34	Basics of architecture and urban planning						3	
35	Basics of industrial construction						2	
36	Construction law					2		
37	The geological structure of the southern Podlasie		2					
38	Technical drawing and CAD	4	2					
39	Technology works					4		
40	Durability of materials			4	4			
<b>SPECIALITY 1 - GENERAL CONSTRUCTION</b>								
41	energy-efficient construction							4
42	Construction documentation					4		
43	Maintenance and renovation of buildings						2	
44	Prefabrication of reinforced concrete and prestressed elements						2	
45	Durability and protection of building structures							5
46	Advanced Design Engineering					4	2	
47	Traineeship (8 weeks after 6th semester)						8	
48	Diploma seminar						2	3
49	Engineering Thesis							15
<b>SPECIALITY 2 - ECO-CONSTRUCTION</b>								
50	energy-efficient construction							4
51	Energy certification of buildings						2	
52	Construction documentation					4		
53	Energy efficient systems							5
54	Unconventional energy sources						2	
55	Advanced Design Engineering					4	2	
56	Traineeship (8 weeks after 6th semester)						8	
57	Diploma seminar						2	3
58	Engineering Thesis							15

SPECIALITY 3 - GEO-ENGINEERING								
59	Geosynthetics in civil and water engineering						2	
60	Vulnerability assessment of environmental pollution and the impact of pollutants on ground properties						2	
61	Basics of science of deposits and mineral resources					4		
62	Reclamation of degraded areas							4
63	Landfills							2
64	Land treatment technologies							3
65	Advanced Design Engineering					4	2	
66	Traineeship (8 weeks after 6th semester)						8	
67	Diploma seminar						2	3
68	Engineering Thesis							15