

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Architecture and Urbanism		Code 1010101131010113838
Field of study Civil Engineering First-cycle Studies	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 30 Classes: - Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 2 100% 2 100%
Responsible for subject / lecturer: dr hab. inż. Zbigniew Bromberek, prof. nadzw email: zbigniew.bromberek@put.poznan.pl tel. 48 61 ... Faculty of Civil and Environmental Engineering ul. Berdychowo 4 60-965 Poznań		Responsible for subject / lecturer: dr inż. Marlena Kucz email: marlena.kucz@put.poznan.pl tel. 616652864 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	No prerequisites
2	Skills	Ability to see the context and analyse the engineering problem in its socio-economic, geopolitical and historical environments
3	Social competencies	Realisation of the need for continuous life-long learning to keep the knowledge and skills up-to-date
Assumptions and objectives of the course: -Transfer of basic knowledge in the area of architecture and urban design as a context for engineer's profession, as well as typical tasks/problems appearing in the engineering of the built and natural environments		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student knows the principal objectives of architecture and urban design together with the means used to achieve - [[K_W06, K_W09, K_W17]]		
2. Student knows and understands the role of structural solutions, building systems and materials, formal and functional designs in the history of building and architecture - [[K_W09, K_W13, K_W14, K_W17]]		
3. Student knows and understands relationships between architecture and urban design, and their interactions with organisational, technical and economic possibilities - [[K_W15, K_W16, K_W17]]		
Skills:		
1. Student can recognise the basic styles characterising buildings in a given historical period - [[K_U14, K_U17, K_U20]]		
2. Student can identify most important achievements in history of architecture and urban design - [[K_U17]]		
3. Student can analyse architecture and urban design as symptoms of needs and investor - [[K_U17, K_U20]]		
Social competencies:		
1. Student understands the need of team effort in solving theoretical and practical problems - [[K_K01, K_K08, K_K09, K_K10]]		
2. Students can see the need for continuing to increase the depth and breadth of their knowledge - [[K_K03, K_K06, K_K07]]		
Assessment methods of study outcomes		

<p>-Final test, scale of marks [%]</p> <p>91-100, very good (A)</p> <p>81-90, good+ (B)</p> <p>71-80, good (C)</p> <p>61-70, satisfactory+ (D)</p> <p>51-60, satisfactory (E)</p> <p>less than 50, fail (F)</p> <p>Continuous assessment of progress made by students, their activity in gaining knowledge/skills</p>		
Course description		
<p>Introduction: climate, comfort and construction. Why build ?.</p> <p>The development of cities and urban civilization.</p> <p>The space in the built environment: function, functionality and ergonomics in buildings.</p> <p>Building and human needs: heat, air and heat and ventilation systems.</p> <p>Building and human needs: water, sewage and water systems.</p> <p>Building and human needs: light, energy and lighting / energy.</p> <p>The development of the construction industry in response to changes in the environment.</p> <p>The succession of styles as technological progress and material.</p> <p>Building a structural regime. Basic elements: from the foundation to the roof.</p> <p>Low energy building, passive and zero-energy building.</p> <p>Construction Law and other regulations. The participants in the construction process</p> <p>Norms, standards and certification.</p> <p>Architecture as part of the material culture and witness the centuries</p>		
Basic bibliography:		
Additional bibliography:		
Result of average student's workload		
Activity		Time (working hours)
1. Participating in lectures		30
2. Studying the source materials (literature, internet etc.)		30
3. Preparation for the final test		5
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	30	1
Practical activities	0	0