

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Architecture and urban planning		Code 1010101131010113838
Field of study Civil Engineering First-cycle Studies	Profile of study (general academic, practical) general academic	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) other		(university-wide, from another field) from another field
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>
<p>Course description</p>
<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>
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Broniewski T Historia architektury dla wszystkich wyd. II, Ossolineum, Wrocław 1980 2. Chmielewski JM Teoria urbanistyki w projektowaniu i planowaniu miast Wyd. Politechniki Warszawskiej, W-wa 2001 3. Czarniecki W Planowanie miast i osiedli t.I-VI, PWN, W-wa 1965 4. Dobrowolski T Sztuka polska Wyd. Literackie, Kraków 1974 5. Koch W Style w architekturze Świat Książki, W-wa 1996 6. Watkin D Historia architektury zachodniej Arkady, W-wa 2006 7. Wróbel T Zarys historii budowy miast Ossolineum, Wrocław 1971 8. Błaszczyński T., Ksit B., Dyzman B. Budownictwo zrównoważone z elementami certyfikacji energetycznej, "Dolnośląskie Wydawnictwo Edukacyjne", Wrocław 2013 9. Neufert E., Podręcznik projektowania architektonicznego, wyd. IV, Arkady, W-wa 2011 10. Regulski J Planowanie miast PWE, W-wa 1986 11. Styrna-Bartkowiczwa, K. TP Ekologia środowiska mieszkaniowego, Ossolineum, Kraków, 1977
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Biegański P U źródeł architektury współczesnej PWN, W-wa 1972 2. Charytonow E Zarys historii architektury wyd. VII, WSiP, W-wa 1978 3. DAlfonso E i Samss D Historia architektury Arkady, W-wa 1997 4. Dobrowolski T Sztuka polska Wyd. Literackie, Kraków 1974 5. Domański T Strategiczne planowanie rozwoju gospodarczego gminy Arkady, W-wa 2000 6. Estreicher K Historia sztuki w zarysie wyd. VII PWN, W-wa 1986 7. Karpowicz M Barok w Polsce Arkady, W-wa 1988 8. Latour S i Szyski A Rozwój współczesnej myśli architektonicznej PWN, W-wa 1985 9. Llera RR Historia architektury Buchmann, Hamburg 2008 10. Lorentz S i Rottermund, A Klasycyzm w Polsce Arkady, W-wa 1984 11. Maik W Podstawy geografii miast Wyd. UMK, Toruń 1992 12. Regulski J Planowanie miast PWE, W-wa 1986 13. Rutkowski S Planowanie przestrzenne obszarów wypoczynkowych w strefie dużych miast PWN, W-wa 1975 14. Styrna-Bartkowiczowa K i Szafer TP Ekologia środowiska mieszkaniowego Ossolineum, K-ów 1977 15. Szczygielski K Zarządzanie przestrzenią Wyd. WSZiA, Opole 2003 16. Świechowski Z Sztuka romańska w Polsce Arkady, W-wa 1982 17. Fletcher, B A history of architecture 20th ed. Architectural Press, Oxford 1996 18. Kostof, S A history of architecture 2nd ed. Oxford University Press 1995
<p>Result of average student's workload</p>

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