

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Architecture and Urbanism</b>		Code <b>1010104131010113838</b>
Field of study <b>Civil Engineering First-cycle Studies</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>2 / 3</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time,part-time) <b>part-time</b>	
No. of hours Lecture: <b>20</b> Classes: <b>-</b> Laboratory: <b>-</b> Project/seminars: <b>-</b>		No. of credits <b>2</b>
Status of the course in the study program (Basic, major, other) <b>(brak)</b>		(university-wide, from another field) <b>(brak)</b>
Education areas and fields of science and art <b>technical sciences</b> <b>Technical sciences</b>		ECTS distribution (number and %) <b>2 100%</b> <b>2 100%</b>
<b>Responsible for subject / lecturer:</b> 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		<b>Responsible for subject / lecturer:</b> dr inż. Marlena Kucz email: marlena.kucz@put.poznan.pl tel. 616652864 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	No prerequisites
2	<b>Skills</b>	Ability to see the context and analyse the engineering problem in its socio-economic, geopolitical and historical environments
3	<b>Social competencies</b>	Realisation of the need for continuous life-long learning to keep the knowledge and skills up-to-date
<b>Assumptions and objectives of the course:</b> -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		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
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]]		
<b>Skills:</b>		
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]]		
<b>Social competencies:</b>		
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]]		
<b>Assessment methods of study outcomes</b>		

<p>-Final test, scale of marks [%]</p> <p>91-100, very good (A) 81-90, good+ (B) 71-80, good (C) 61-70, satisfactory+ (D) 51-60, satisfactory (E) less than 50, fail (F)</p> <p>Continuous assessment of progress made by students, their activity in gaining knowledge/skills</p>
<p style="text-align: center;"><b>Course description</b></p>
<p>Introduction: climate, comfort and construction. Why build ? The development of cities and urban civilization. The space in the built environment: function, functionality and ergonomics in buildings. Building and human needs: heat, air and heat and ventilation systems. Building and human needs: water, sewage and water systems. Building and human needs: light, energy and lighting / energy. The development of the construction industry in response to changes in the environment. The succession of styles as technological progress and material. Building a structural regime. Basic elements: from the foundation to the roof. Low energy building, passive and zero-energy building. Construction Law and other regulations. The participants in the construction process Norms, standards and certification. Architecture as part of the material culture and witness the centuries</p>
<p><b>Basic bibliography:</b></p> <ol style="list-style-type: none"><li>1. Broniewski T Historia architektury dla wszystkich wyd. II, Ossolineum, Wrocław 1980</li><li>2. Chmielewski JM Teoria urbanistyki w projektowaniu i planowaniu miast Wyd. Politechniki Warszawskiej, W-wa 2001</li><li>3. Czarniecki W Planowanie miast i osiedli t.I-VI, PWN, W-wa 1965</li><li>4. Dobrowolski T Sztuka polska Wyd. Literackie, Kraków 1974</li><li>5. Koch W Style w architekturze Świat Książki, W-wa 1996</li><li>6. Watkin D Historia architektury zachodniej Arkady, W-wa 2006</li><li>7. Wróbel T Zarys historii budowy miast Ossolineum, Wrocław 1971</li><li>8. Błaszczyński T., Ksit B., Dyzman B. Budownictwo zrównoważone z elementami certyfikacji energetycznej, &amp;#38;#34;Dolnośląskie Wydawnictwo Edukacyjne&amp;#38;#34;, Wrocław 2013</li><li>9. Neufert E., Podręcznik projektowania architektonicznego, wyd. IV, Arkady, W-wa 2011</li><li>10. Regulski J Planowanie miast PWE, W-wa 1986</li><li>11. Styrna-Bartkowiczwa, K. TP Ekologia środowiska mieszkaniowego, Ossolineum, Kraków, 1977</li></ol>
<p><b>Additional bibliography:</b></p> <ol style="list-style-type: none"><li>1. Biegański P U źródeł architektury współczesnej PWN, W-wa 1972</li><li>2. Charytonow E Zarys historii architektury wyd. VII, WSiP, W-wa 1978</li><li>3. DAlfonso E i Samss D Historia architektury Arkady, W-wa 1997</li><li>4. Dobrowolski T Sztuka polska Wyd. Literackie, Kraków 1974</li><li>5. Domański T Strategiczne planowanie rozwoju gospodarczego gminy Arkady, W-wa 2000</li><li>6. Estreicher K Historia sztuki w zarysie wyd. VII PWN, W-wa 1986</li><li>7. Karpowicz M Barok w Polsce Arkady, W-wa 1988</li><li>8. Latour S i Szyski A Rozwój współczesnej myśli architektonicznej PWN, W-wa 1985</li><li>9. Llera RR Historia architektury Buchmann, Hamburg 2008</li><li>10. Lorentz S i Rottermund, A Klasycyzm w Polsce Arkady, W-wa 1984</li><li>11. Maik W Podstawy geografii miast Wyd. UMK, Toruń 1992</li><li>12. Regulski J Planowanie miast PWE, W-wa 1986</li><li>13. Rutkowski S Planowanie przestrzenne obszarów wypoczynkowych w strefie dużych miast PWN, W-wa 1975</li><li>14. Styrna-Bartkowiczowa K i Szafer TP Ekologia środowiska mieszkaniowego Ossolineum, K-ów 1977</li><li>15. Szczygielski K Zarządzanie przestrzenią Wyd. WSZiA, Opole 2003</li><li>16. Świechowski Z Sztuka romańska w Polsce Arkady, W-wa 1982</li><li>17. Fletcher, B A history of architecture 20th ed. Architectural Press, Oxford 1996</li><li>18. Kostof, S A history of architecture 2nd ed. Oxford University Press 1995</li></ol>
<p style="text-align: center;"><b>Result of average student's workload</b></p>

Activity		Time (working hours)
1. Participating in lectures		20
2. Studying the source materials (literature, internet etc.)		20
3. Preparation for the final test		5
Student's workload		
Source of workload	hours	ECTS
Total workload	50	2
Contact hours	20	1
Practical activities	0	0