

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Fundamentals of architectures</b>		Code <b>1010101221010135258</b>
Field of study <b>Environmental Engineering First-cycle Studies</b>	Profile of study (general academic, practical) <b>(brak)</b>	Year /Semester <b>1 / 2</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>full-time</b>	
No. of hours Lecture: <b>30</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 61 647 5827, +48 61 665 2438 Wydział Budownictwa i Inżynierii Środowiska 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 them - [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: pisemny (41 questions), multiple choice, 22 minutes</p> <p>Skala ocen: more than 78/84 points, excellent  72--78, very good (A)  64--70, good+ (B)  56--62, good (C)  48--54, satisfactory+ (D)  39--47, satisfactory (E)  less than 39/84, fail (F)</p> <p>Continuous assessment of progress made by students, their activity in gaining knowledge/skills</p>	
<b>Course description</b>	
<p>-Basic terminology (urban design, spatial planning, spatial economics, technical infrastructure, ? , architecture and its components: form, structure and function, architectural styles)</p> <p>-Architecture and urban design as a response to environmental challenges</p> <p>-Urbanisation and accompanying environmental phenomena</p> <p>-Objectives and legal basis for spatial planning and economics</p> <p>-Studies and analyses in spatial planning</p> <p>-Principles of allocating functions in urban areas (parameters, standards urban standards)</p> <p>-Technical infrastructure in spatial planning</p> <p>-Principles of spatial situating of infrastructure</p> <p>-Objectives and means of architectural design</p> <p>-History of architecture vs. technological developments</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> </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. D?Alfonso 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>	
<b>Result of average student's workload</b>	
<b>Activity</b>	<b>Time (working hours)</b>
1. Participating in lectures	30
2. Studying the source materials (literature, internet etc.)	30
3. Preparation for the final test	5

<b>Student's workload</b>		
<b>Source of workload</b>	<b>hours</b>	<b>ECTS</b>
Total workload	65	2
Contact hours	30	1
Practical activities	0	0