

<b>Course code</b>																																	
<b>Type and description</b>	EC – elective subjects from the discipline of Architecture and urban planning																																
<b>ECTS credit</b>	1																																
<b>Course name</b>	Proecological Aspects of Architecture I																																
<b>Course name in Polish</b>	Proekologiczne aspekty architektury I																																
<b>Language of instruction</b>	English																																
<b>Course level</b>	8 PRK																																
<b>Course coordinator</b>	dr inż. arch. Renata Mikielwicz																																
<b>Course instructors</b>	dr inż. arch. Renata Mikielwicz																																
<b>Delivery methods and course duration</b>	<table border="1"> <thead> <tr> <th></th> <th>Lecture</th> <th>Tutorials</th> <th>Laboratory</th> <th>Project</th> <th>Seminar</th> <th>Other</th> <th>Total of teaching hours during semester</th> </tr> </thead> <tbody> <tr> <td>Contact hours</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>5</td> </tr> <tr> <td>E-learning</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> <td>no</td> </tr> <tr> <td>Assessment criteria (weightage)</td> <td>0</td> <td>0</td> <td>0</td> <td>100%</td> <td>0</td> <td>0</td> <td>100%</td> </tr> </tbody> </table>		Lecture	Tutorials	Laboratory	Project	Seminar	Other	Total of teaching hours during semester	Contact hours	0	0	0	5	0	0	5	E-learning	no	no	no	no	no	no	no	Assessment criteria (weightage)	0	0	0	100%	0	0	100%
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<b>Course objective</b>	<p>Subject aim</p> <ol style="list-style-type: none"> <li>The aim of the subject is to enable the student to gain knowledge about contemporary trends in chosen aspects of ecology and the sustainable development principle in architecture and urban design</li> <li>The aim of the subject is to gain the knowledge about the spatial form creation in architecture and urban design regarding to the requirements of ecology and sustainable development rule and about the impact of ecology on design process</li> <li>The aim of the subject is to enable the student to gain knowledge about the influence of ecology on the technological solutions in contemporary design and research practice</li> </ol>																																
<b>Learning outcomes</b>	<p>After finishing the course a PhD student can:</p> <ol style="list-style-type: none"> <li>characterize the effects and activities in architecture and civil engineering regarding to ecology and sustainable development – effects W1, U1, U2, U4</li> <li>characterize technological solutions based on ecology – effects W1, W2, U1, K1</li> <li>describe contemporary design process and the rules of ecological certification of objects, buildings, urban estates and building materials – effects W2, U2, U3, K1, K2, K3</li> <li>interpret design process and professional activities regarding to the needs of the sustainable development - effects W2, U4, K1, K2, K3</li> </ol>																																
<b>Assessment methods</b>	<p>Assessment methods</p> <p>Effects 1-4 written or oral exam</p> <p>The final grade consist from:</p> <p>The result of the written/oral exam- 80%</p>																																

	The result of the presentation of the project – 20%
<b>Prerequisites</b>	none
<b>Course content with delivery methods</b>	<p>PROJECT covering following issues:</p> <ol style="list-style-type: none"> <li>1. Definitions of ecology and sustainable development and their contemporary interpretations.</li> <li>2. Historical determinants of the rule of sustainable development implementation into practice</li> <li>3. Building materials and architectural solutions based on ecology and sustainable development principle</li> <li>4. Elements of philosophical interpretations of sustainable development</li> <li>5. Examples of technical solutions for material and architectural uses and their influence on the architectural form</li> <li>6. Design process and the representation of the project regarding to life cycle of the building, ecological certification</li> <li>7. Diverse forms of proecological spatial developments. Differences between traditional and contemporary technics.</li> <li>8. Space use comfort – ecological aspects of human activities in the self-developed environment</li> </ol>
<b>Basic reference materials</b>	<ol style="list-style-type: none"> <li>1. Klein, N., To zmienia wszystko: Kapitalizm kontra klimat, tłum. H. Jankowska, K. Makaruk (Warszawskie Wydawnictwo Literackie MUZA SA, Warszawa 2016)</li> <li>2. Scruton, R., Zielona filozofia: jak poważnie myśleć o naszej planecie, tłum. J. Grzegorzcyk, R. P. Wojciechowski. Poznań: Wydawnictwo ZYSK I S-KA, 2017.</li> <li>3. Blewitt, J., Understanding Sustainable Development., Earthscan, London 2010</li> <li>4. Brand, S., How Buildings Learn: What Happens After They're Built. Penguin Books, New York 1995.</li> </ol>
<b>Other reference materials</b>	<ol style="list-style-type: none"> <li>1. Ellin, N. Integral Urbanism.,: Routledge, Taylor &amp; Francis Group, London 2006.</li> <li>2. Cairns, S., Jacobs J. M., Buildings Must Die: A Perverse View of Architecture. Cambridge, Massachusetts, The MIT Press, 2014</li> </ol>
<b>Average student workload outside classroom</b>	25 h
<b>Comments</b>	
<b>Last update</b>	July 2020