<table>
<tr><td>Course code</td><td></td></tr>
<tr><td>Type and description</td><td>Elective Course</td></tr>
<tr><td>ECTS credit</td><td>1</td></tr>
<tr><td>Course name</td><td>Proecological Aspects of Architecture I</td></tr>
<tr><td>Course name in Polish</td><td>Proekologiczne aspekty architektury I</td></tr>
<tr><td>Language of instruction</td><td>English</td></tr>
<tr><td>Course level</td><td>8 PRK</td></tr>
<tr><td>Course coordinator</td><td>dr inż. arch. Renata Mikielewicz</td></tr>
<tr><td>Course instructors</td><td>dr inż. arch. Renata Mikielewicz</td></tr>
<tr><td>Delivery methods and course duration</td><td>
<table>
<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>
<tr><td>Contact hours</td><td>0</td><td>0</td><td>0</td><td>15</td><td>0</td><td>0</td><td>15</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></td></tr>
<tr><td>Assessment criteria (weightage)</td><td>0,00</td><td></td><td></td><td>100</td><td></td><td>0,00</td><td></td></tr>
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<tr><td>Course objective</td><td>1. 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 rule in architecture and urban design

2. 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 principle and about the impact of ecology on design process

3. 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</td></tr>
<tr><td>Learning outcomes</td><td>Having completed the course student can:

1. characterize the effects and activities in architecture and civil engineering regarding to ecology and sustainable development – effects W4, U4

2. characterize technological solutions based on ecology – effects W4,U4

3. describe contemporary design process and the rules of ecological certification of objects, buildings, urban estates and building materials – effects W4, U4, K1

4. interpret design process and professional activities regarding to the needs of the sustainable development - effects U4, K1</td></tr>
<tr><td>Assessment methods</td><td>W4, U 4, K1 - oral exam

U4, K1 – project seminar presentation

W4, U4, K1 – written or small design project

The final grade

Oral exam - 40%</td></tr>
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	Project presentation and evaluation– 60%
Prerequisites	none
Course content with delivery methods	LECTURE 1. Definitions of ecology and sustainable development and their contemporary interpretations. 2. Historical determinants of the rule of sustainable development implementation into practice 3. Building materials and architectural solutions based on ecology and sustainable development rule 4. Elements of philosophical interpretations of sustainable development 5. Examples of technical solutions for material and architectural uses and their influence on the architectural form 6. Design process and the representation of the project regarding to life cycle of the building, ecological certification 7. Diverse forms of proecological spatial developments. Differences between traditional and contemporary technics. 8. Space use comfort – ecological aspects of human activities in the self-developed environment PROJECT Presentation of the applications of the listed issues to architectural and urban design and the problems covered in the doctoral thesis.
Basic reference materials	1. Klein, N., To zmienia wszystko: Kapitalizm kontra klimat, tłum. H. Jankowska, K. Makaruk Warszawskie Wydawnictwo Literackie MUZA SA, Warszawa 2016) 2. Scruton, R., Zielona filozofia: jak poważnie myśleć o naszej planecie, tłum. J. Grzegorczyk, R. P. Wojciechowski. Poznań: Wydawnictwo ZYSK I S-KA, 2017. 3. Blewitt, J., Understanding Sustainable Development., Earthscan, London 2010 4. Brand, S., How Buildings Learn: What Happens After They're Built. Penguin Books, New York 1995.
Other reference materials	1.Ellin, N. Integral Urbanism,: Routledge, Taylor & Francis Group, London 2006. 2.Cairns, S., Jacobs J. M., Buildings Must Die: A Perverse View of Architecture. Cambridge, Massachusetts, The MIT Press, 2014
Average student workload outside classroom	10h
Comments	
Last update	29.01.2022