Course title:	Proenvironmental solutions in architecture
Course title in Polish:	Prośrodowiskowe rozwiązania w architekturze
Course for discipline:	Civil engineering, geodesy and transport

Semester:	5	**Status of course:**	faculty	**Language:**	english
Academic year:		**Catalog number:**			

Coordinator of course:	dr hab. inż. arch. Agnieszka Starzyk
Lecturer od course:	dr hab. inż. arch. Agnieszka Starzyk
Executing unit:	Institute of Civil Engineering
Ordering unit:	Doctoral School SGGW
Assumptions, goals and description of the course:	The aim of the course is to familiarize students with the principles of sustainable development for construction, with environmentally friendly construction, material and technological solutions and users.
Didactic form, number of hours:	Lecture, 10
Teaching methods:	Traditional lecture, Problem-based lecture, Lectures using teaching techniques distance
Limit of people in the group:	Undefined

Learning outcomes

KNOWLEDGE - the graduate knows and understands:	**SKILLS - the graduate is able to:**	**COMPETENCES - the graduate is ready to:**
To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	Critically evaluate the achievments in the field/discipline represented
Major general development trends in the field/discipline		Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect
		Support the ethos of scientific circles and conduct independent research

The method of verification of learning outcomes:	Test (written or computer)
Form of documentation of achieved learning outcomes:	Electronic or paper version of the test
Elements and weights of the final grade:	Test - 80%, aktywność/obecność na zajęciach 20%
Place of the course:	Classroom or online

Basic and supplementary literature

1) Lucas, D. (2021). Ecological Buildings. London: Braun Publishing AG.
2) Collective study. Green Architecture: The work of Vo Trong Nghia | VTN Architects. Oscar riera ojeda publishers limited.
3) Collective study (2012). Eco-Architecture. Greenhaven Press.
4) Widera, B. (2018). Proces kształtowania relacji z naturą w architekturze współczesnej. Wrocław: Oficyna Wydawnicza Politechniki Wrocławskiej.
5) Marchwiński, J. Zielonko-Jung, K. (2024). Współczesna architektura proekologiczna. Warszawa: Wydawnictwo Naukowe PWN.

Comments:	

Estimated number of hours of work of the doctoral student necessary to achieve the assumed learning outcomes:	25

Leraning outcomes reference to the second degree characteristics of the National Qualification Framework (level 8) covering doctoral competences:

Symbol:	**Learning outcomes:**	**8 level NQF**
SD1_KW01	To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	P8S_WG
SD1_KW02	Major general development trends in the field/discipline	P8S_WG
SD1_KU05	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	P8S_UW
SD1_KK01	Critically evaluate the achievments in the field/discipline represented	P8S_KK
SD1_KK03	Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect	P8S_KK
SD1_KK08	Support the ethos of scientific circles and conduct independent research	P8S_KR