

COURSE OFFERED IN THE DOCTORAL SCHOOL

Code of the course	4606-ES-000000A-0335	Name of the course	Polish	Projekty naukowe w architekturze i urbanistyce (B)		
			English	Scientific projects in architecture and urban planning (B)		
Type of the course	specialized					
Course coordinator	Maciej Lasocki, DSc PhD Eng Arch		Course teacher	Maciej Lasocki, DSc PhD Eng Arch		
Implementing unit	Facutly of Architecture	Scientific discipline / disciplines*	Architecture and Urban Planning			
Level of education	Doctoral studies	Semester	winter			
Language of the course	English					
Type of assessment	passing the course with a grade	Number of hours in a semester	50	ECTS credits		3
Minimum number of participants	10	Maximum number of participants	15	Available for students (BSc, MSc)		Yes
Type of classes		Lecture	Auditory classes	Project classes	Laboratory	Seminar
Number of hours	in a week	-	-	5	-	-
	in a semester	-	-	50	-	-

* does not apply to the Researcher's Workshop

1. Prerequisites

Passing the first part of the course (A) earlier. It does not apply to foreign-language PhD students.

Passing any of former courses in series: "Eksperymentalny projekt badawczy".

Participation (e.g. parallel) in classes devoted to research methodology.

2. Course objectives

The aim of the subject is to create conditions for the formation of creative teams of young scientists who undertake joint research projects. The project approach to building knowledge and shaping skills, specific to the Architecture and Urban Planning discipline, allows for the acquisition of new experiences through experimentation. Teamwork allows for the shaping of social competences of course participants. The second semester of classes (B) aims to implement the scientific activities planned in the first semester (A).

3. Course content (separate for each type of classes)

Project classes

Research projects are carried out over two consecutive semesters (A and B). Depending on the interest of the PhD students, part B may take place in the next semester or the following one, with a six-month break.

The second semester is devoted to continuing the planned projects. In order to complete the work on the scientific article, PhD students conduct research according to the schedule and prepare the text of the article.

The majority of the classes, if the task was not completed in the previous semester, are devoted to preparing a grant application, conference or summer school in international cooperation. Hence, the classes will be conducted in English with the possibility of including foreign PhD students. In special cases, parts of the classes may be conducted in Polish.

The research project topics undertaken cannot be directly part of the implementation of a doctoral dissertation of one of the team members. However, they may concern issues indirectly related to the individual research of the team members. Teams are selected based on convergence of interests, looking for common topics.

Presentations of the results of team work are given to the entire group. The scope and course of the teams' work is supervised by the course teacher.

The classes have been prepared for doctoral students who have little preparation for conducting scientific research and preparing publications.

The schedule of classes may differ from the one displayed in USOS. Due to special requirements of external partners (consortium meetings, summer school or conference duration) **time dedicated to the course may be allocated in different time slots, agreed with students.**

4. Learning outcomes			
Type of learning outcomes	Learning outcomes description	Reference to the learning outcomes of the WUT DS	Learning outcomes verification methods***
Knowledge			
K01	The doctoral student knows and understands general issues and selected specific issues – appropriate to the represented scientific discipline in the area of the conducted research project.	SD_W2	project evaluation, presentation evaluation
K02	The doctoral student learns in practice the research methodology of the discipline of Architecture and Urban Planning.	SD_W3	report evaluation
K03	The PhD student becomes familiar with some of the mechanisms of financing scientific research in practice.	SD_W4	active participation during classes
Skills			
S01	The doctoral student is able to use knowledge from various fields to perform scientific tasks, in particular: <ul style="list-style-type: none"> • define the purpose and subject of research; • select research methods, techniques and tools. 	SD_U1	report evaluation, active participation during classes
S02	The doctoral student is able to communicate on specialist topics relevant to the discipline of Architecture and Urban Planning, to a degree that allows for active participation in the scientific community of the Faculty of Architecture of the Warsaw University of Technology.	SD_U4	presentation evaluation, active participation during classes
S03	The doctoral student is able to plan and implement a team research project.	SD_U4	active participation during classes
Social competences			
SC01	The doctoral student demonstrates the competence to critically evaluate his or her own contribution to a research project.	SD_K1	active participation during classes, report evaluation
SC02	The doctoral student is ready to think and act in a creative and entrepreneurial way.	SD_K4	active participation during classes

***Allowed learning outcomes verification methods: exam; oral exam; written colloquium; oral test; project evaluation; report evaluation; presentation evaluation; active participation during classes; homework; tests

5. Assessment criteria
Project evaluation – achievement of the goal, correctness of reasoning and drawing conclusions.
Presentation evaluation – communicativeness and correctness of professional and scientific language.
Report evaluation – completeness of the study, correctness of professional and scientific language.

Active participation during classes – correctness and logical reasoning, ability to draw conclusions, ability to cooperate, creativity.

6. Literature

Doctoral students are encouraged to actively search for literature sources that correspond to the topics of the projects they are implementing.

7. PhD student's workload necessary to achieve the learning outcomes****

No.	Description	Number of hours
1	Hours of scheduled instruction given by the academic teacher in the classroom	50
2	Hours of consultations with the academic teacher, exams, tests, etc.	0
3	Amount of time devoted to the preparation for classes, preparation of presentations, reports, projects, homework	25
4	Amount of time devoted to the preparation for exams, test, assessments	0
Total number of hours		75
ECTS credits		3

**** 1 ECTS = 25-30 hours of the PhD students work (2 ECTS = 60 hours; 4 ECTS = 110 hours, etc.)

8. Additional information

Number of ECTS credits for classes requiring direct participation of academic teachers	3
Number of ECTS credits earned by a student in a practical course	3