



DOCTORAL
SCHOOL
AT GDAŃSK
UNIVERSITY
OF TECHNOLOGY

Course: Research methodology in architecture and urban planning

Teaching hours: 10 h

Prerequisites: The course is primarily open to all PhD students at Gdansk University of Technology.

This course is compulsory for PhD students assigned to **Architecture and Urbanism** tracks at Doctoral School at Gdańsk University of Technology

Course outline

Content

This module is all about getting the student to be prepared to develop research within the area of urban design and development. The sessions provide essential information that you require to both select the issue / topic of the research, define the research question (s) as well as to understand how different topics may be approached in order to define the research plan. The course is designed to deliver to students knowledge on both issues that may be dealt with as well as methods of dealing with different types of research problem. Throughout the course the students should gain skills to develop both the outline and main body of their research within the topics associated with urban design and development issues. During the course, students should acquire skills regarding: formulation of the scientific problem in the doctoral dissertation and highlighting the interdisciplinary aspect of this problem as part of a doctoral dissertation in the field of architecture and urban planning. The course is designed to deliver to students knowledge on principles of scientific work on the example of sustainable development issues. Throughout the course the students should gain skills to present their research and prepare a scientific publication.

General topics coverage:

General introduction. Current issues of interest within the area of urban design and development area; Structuring the research. Ways of dealing with the research question and using it in further advancement of research proposals; Research methods and tools used within the scope of the area of urban design and development; Overview of the possible types of PhD research within the area of urban design and development topics; Analysis of the selected case study. The case of Young City in Gdansk; Analysis of the selected problem. The case of interwar housing estates in Gdańsk; Analysis of the selected problem. The case of urban waterfront redevelopment; Analysis of the selected concept. The case of theming public spaces; Analysis of the planning / development doctrines. An overview; Analysis of the selected doctrine. The case of sustainable urban development. (Prof. P. Lorens)

Determining the scope of student's scientific interests; Methodology for conducting scientific research; Presentation of research results in the form of a doctoral dissertation; Doctoral dissertation in the light of the Act on Academic Degrees and Titles. (Prof. A. Kulowski)

Environmental problems of contemporary architecture and town planning as a scientific challenge; Research methodology on examples of selected environmental issues; Elements of the doctoral dissertation on selected examples; Rules for preparing a scientific paper and conference presentation. (K. Zielonko-Jung, Assoc. Prof.)

Definitions of architecture as a science; Relation: history of architecture - archeology. The use of archeology and history tools; Relation: history of architecture - art history; The use of art history tools; Methods of historical and architectural research. The use of specific methods of architectural research. (J Szczepański, Assoc. Prof.)

Teaching mode

There will be 30 hours of lectures/seminars, to be completed during the first and/or second semesters of PhD programme. The teaching method is basically lectures combined with in-class presentation(s) and discussions. During the course students will be asked to propose their own research topic and questions. The course is entirely delivered in English.

Examination

A wide range of formative feedback from your tutor, questions and practical individual and group exercises will be used by tutors to aid learning as will exercises to encourage the researchers' abilities in critical and reflective learning. The exact nature of these assessment devices will be at the discretion of the tutor. The PhD students will be required to demonstrate their skills, knowledge and understanding of nature of research during oral/written examination.

Fundamental readings*:

Medina C.D., Monclus J. (eds.): *Urban Visions*. Cham: Springer 2018

Hegger M., Fuchs M., Stark T., Zeumer M., *Energy Manual, Sustainable Architecture*, Birkhauser, Berlin 2008.

Snyder H., *Literature review as a research methodology: An overview and guidelines*, *Journal of Business Research*, Volume 104, November 2019, p. 333-339.

Walliman N., *Research methods: the basics*, Taylor and Francis, New York 2011.

*A full reading list and class resources will be provided during lectures/seminars