

**Course syllabus**

binding for the doctoral students of the CUT Doctoral School commencing their studies  
in the academic year 2022/2023

**Information on the course**

Name of the course in Polish	Seminarium prowadzone w dyscyplinie
Name of the course in English	Doctoral seminar in the discipline
Number of the ECTS points	2
Language of instruction	Polish
Category of the course	Compulsory
Field of education	Engineering and Technology
Discipline of education	Civil Engineering and Transport
Person responsible for the course Contact	CUT Prof. Lucyna Domagała, PhD Eng lucyna.domagala@pk.edu.pl

**Type of course, number of hours in the study programme curriculum**

Semester	Credit type (G / NG)*	Lecture	Practical class	Laboratory	Computer Laboratory	Project class	Seminar
3	NG	0	0	0	0	0	15

\*G – graded credit, NG – non-graded credit

**Course objectives**

Code	Objective description
Objective 1	Expanding the knowledge of world achievements, including theoretical foundations and contemporary issues in the field of Civil Engineering and Transport.
Objective 2	Expanding knowledge about the main development trends in the discipline of Civil Engineering and Transport.
Objective 3	Developing the ability to present the state of knowledge in the field of a specific research and scientific issue and own research and analysis results.
Objective 4	Developing the ability to participate in the scientific discourse.

**Learning Outcomes**

Code	Description of the learning outcome adjusted to the specific characteristics of the discipline	Learning outcome symbol in the CUT DS	Methods of verification
<b>OUTCOMES RELATED TO KNOWLEDGE</b>			
EUW1	A PhD student knows and understands to the extent that it is possible to revise the existing paradigms - world achievements, covering theoretical foundations as well as general issues and selected specific issues - appropriate for the discipline of Civil Engineering and Transport.	E_W01	Involvement in class activities, graded presentation and discussion
EUW2	A PhD student knows and understands the main development trends in the discipline of Civil Engineering and Transport.	E_W02	Involvement in class activities, graded presentation and discussion
<b>OUTCOMES RELATED TO SKILLS</b>			

EUU1	A PhD student can: - define the purpose and subject of research, - formulate a research hypothesis, - develop research methods, techniques and tools and use them creatively, - - make conclusions on the basis of scientific research.	E_U01	Graded presentation and discussion
EUU2	A PhD student is able to make a critical analysis and evaluation of the results of scientific research, expert activity and other creative works and their contribution to the development of knowledge	E_U02	Involvement in class activities, graded presentation and discussion
EUU3	A PhD student is able to initiate a debate.	E_U06	Involvement in class activities, graded presentation and discussion
EUU4	A PhD student is able to participate in a scientific discourse.	E_U07	Involvement in class activities, graded discussion
EUU5	A PhD student is able to plan and execute individual and team research projects, also in an international environment	E_U09	Graded presentation and discussion
EUU6	A PhD student is able to independently plan and act for the benefit of their own development and to inspire and organise development of other individuals	E_U10	Involvement in class activities, graded discussion
<b>OUTCOMES RELATED TO SOCIAL COMPETENCES</b>			
EUK1	A PhD student is prepared for critical evaluation of the scientific achievements within the discipline of Civil Engineering and Transport	E_K01	Involvement in class activities, graded presentation and discussion
EUK2	A PhD student is prepared for critical evaluation of their own contribution to the development of the discipline of Architecture and Urban Sciences	E_K02	Graded presentation and discussion
EUK3	A PhD student is prepared to recognise the significance of knowledge in solving cognitive and practical problems	E_K03	Involvement in class activities, graded presentation and discussion
EUK4	A PhD student is prepared to: - carry out their research activities in an independent manner, - respect the principle of public ownership of the scientific research results, without prejudice to the principles of intellectual property rights protection	E_K07	A graded presentation

### Course outline

No.	Contents	Learning outcomes for the course	No. of hours
<b>LECTURE</b>			
W 1	Presentation of the general principles of a critical review of thematic literature, development of an individual research program and presentation of a scientific and technical issue.	EUU1, EUU2, EUK1, EUK2, EUK3, EUK4	2
W 2	Adoption of the program and detailed topics of the speeches of the seminar participants.	EUU5, EUU6	1
W 3	Presentations of issues related to the subject of doctoral dissertations of individual doctoral students, including a review of the subject literature as well as the purpose and scope of the work. Discussion.	EUW1, EUW2, EUU1, EUU2, EUU1, EUU2, EUU5, EUU6, EUK1, EUK2, EUK3, EUK4	12

### The ECTS points statement

WORKING HOURS SETTLEMENT	
Type of activity	Average number of hours (45 min.) dedicated to the completion of an activity type
<b>SCHEDULED CONTACT HOURS WITH THE ACADEMIC TEACHER</b>	
Hours allotted in the syllabus	15
Consultations	1
Examination / course credit assignment	0
<b>HOURS WITHOUT THE PARTICIPATION OF THE ACADEMIC TEACHER</b>	
Independent study of the course contents	30
Preparation of a presentation, discussion, plan	14
<b>ECTS POINTS STATEMENT</b>	
Total number of hours	60
The ECTS points number	2

### Preliminary requirements

No.	Requirements
1	Not specified

### Course credit assignment conditions / method of the final grade calculation

No.	Description
<b>COURSE CREDIT ASSIGNMENT CONDITIONS</b>	
1	75% attendance in class.
2	Presentation of issues related to the subject of the doctoral dissertation and activity in the classroom
<b>METHOD OF THE FINAL GRADE CALCULATION</b>	
	Not specified

### Additional information

Not specified
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### The course reading list

1	Specialist literature in the field of Civil Engineering and Transport discipline, including: - academic textbooks; - scientific publications in books, magazines, conference materials.
2	Standards, guidelines and legal acts in the field of Civil Engineering and Transport discipline.
3	Gambarelli G., Łucki Z., <i>Praca dyplomowa i doktorska : zdobycie promotora, pisanie na komputerze, opracowanie redakcyjne, prezentowanie, publikowanie</i> , Warszawa, 2017, CeDeWu.
4	Kuciński K., <i>Elementy metodyki rozprawy doktorskiej</i> . 2015, Difin.
5	Siuda P., Wasylczyk P., <i>Publikacje naukowe. Praktyczny poradnik dla studentów, doktorantów i nie tylko</i> , 2018, PWN.
6	Creswell J. W., <i>Projektowanie badań naukowych. Metody jakościowe</i> , 2020, Wydawnictwo Uniwersytetu Jagiellońskiego.
7	Stępień B., <i>Zasady pisania tekstów naukowych: Prace doktorskie i artykuły</i> , 2022, Warszawa, PWN.
8	Yin R.K., <i>Studium przypadku w badaniach naukowych. Projektowanie i metody</i> , 2015, Wydawnictwo Uniwersytetu Jagiellońskiego.