

Course code: .....

Plan position: .....

### A. INFORMATION ABOUT THE COURSE

#### B. Basic information

Name of course	FINAL PROJECT
Field of studies	CIVIL ENGINEERING
Level of studies	FIRST
Profile of studies	ACADEMIC
Form of studies	FULL-TIME
Specialty	Civil Engineering Structures
Unit responsible for the field of studies	Faculty of Civil and Environmental Engineering and Architecture, Bydgoszcz University of Science and Technology
Name and academic degree of teacher(s)	Dr hab. inż. Maciej Dutkiewicz, PhD, Dsc, Professor
Introductory courses	Mechanics, Strength Of Materials, Construction Mechanics, Civil Engineering
Introductory requirements	Basic construction mechanics

#### C. Semester/week schedule of classes

Semester	Lectures (W)	Auditorium classes (Ć)	Laboratory classes (L)	Project classes (P)	Seminar (S)	Field classes (T)	Number of ECTS points
winter	-	-	-	-	-	-	18

## 2. LEARNING OUTCOME

No.	Learning outcomes description	The reference to the learning outcomes of specific field of study	The reference to the learning outcomes for the area
<b>KNOWLEDGE</b>			
W1	Students have knowledge of how to prepare the final project. They consolidated the knowledge of selected issues during their studies. They acquired the skill of presenting their work: projects, papers.	K_W17	P6S_WG
<b>SKILLS</b>			
U1	Students can prepare the projects and present them in a public forum	K_U01	P6S_UW, P6S_UK, P6S_UU
<b>SOCIAL COMPETENCES</b>			

K1	Students are aware of the importance of professional behavior and compliance with professional ethics	K_K03	P6S_KK, P6S_KO P6S_KR
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### 3. TEACHING METHODS

#### A. Traditional methods used \*\*\*

lecture, presentation, discussion, case study
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#### B. Distance learning methods used \*\*\*

<p><b>Synchronous method</b> (classes conducted in a way that ensures direct interaction between the student and the teacher in real time, enabling immediate flow of information, the method can be used only if it is provided for in the study plan for a given cycle of education): e.g. remote lecture in the form of videoconference, remote discussion, etc.</p> <p><b>Asynchronous method</b> used as an auxiliary (a method that does not ensure direct interaction between the student and the teacher in real time, used only as an auxiliary / complementary method): e.g. online educational videos, online multimedia presentations, etc.</p>
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### 4. METHODS OF EXAMINATION

Oral and written exam, written project / thesis
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### 5. SCOPE

Project classes	Preparing of engineering final projects. Principles of papers studies, synthesis. Planning an integrated project. Organizing a chapter of the final project. Writing clearly. Referencing and style issues. Developing the text. Writing process. Handling attention points. Presenting data and graphics. Preparation of summary, conclusions and list of references. Discussion of the most important issues from the course of studies. Preparation and presentation of a selected engineering problem related to the subject of the final project.
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### 6. METHODS OF VERIFICATION OF LEARNING OUTCOMES

LEARNING OUTCOME	Form of assessment					
	Oral examination	Written exam	Colloquium	Project	Presentation	Thesis
W1	x	x				x
U1	x	x				x
K1	x	x				x

### 7. LITERATURE

Basic literature	1. Russey W. E., Ebel H. F., Bliefert C. , How to Write a Successful Science Thesis - The Concise Guide for Students. WILEY, 2006.
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### 8. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE EXPECTED LEARNING OUTCOMES EXPRESSED IN TIME AND ECTS CREDITS

Student's activity	Student workload– number of hours
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Classes conducted under a direct supervision of an academic teacher or other persons responsible for classes	Participation in classes indicated in point 1B	0
	Supervision hours	20
Student's own work	Preparation for classes	180
	Reading assignments	100
	Other (preparation for exams, tests, carrying out a project etc)	240
Total student workload		540
Number of ECTS points		18