

### COURSE DESCRIPTION CARD

<b>Bialystok University of Technology</b>										
<b>Field of study</b>	<b>CBSE</b>							<b>Degree level and programme type</b>	Bachelor's degree	
<b>Specialization/ diploma path</b>	-							<b>Study profile</b>	academic	
<b>Course name</b>	<b>BSc thesis</b>							<b>Course code</b>	<b>CBSE7148</b>	
								<b>Course type</b>	elective	
<b>Forms and number of hours of tuition</b>	<b>L</b>	<b>C</b>	<b>LC</b>	<b>P</b>	<b>SW</b>	<b>FW</b>	<b>S</b>	<b>Semester</b>	7	
								<b>No. of ECTS credits</b>	15	
<b>Entry requirements</b>	Student has knowledge from all modules - confirmed by positive marks - from previous semesters in the study programme: Construction and Building Systems Engineering									
<b>Course objectives</b>	Preparing students to synthesise knowledge, skills and other competencies gained throughout the program of study, in the form of bachelor's thesis describing independent, comprehensive solution to the complex task of engineering or scientific problem									
<b>Course content</b>	Programming task posed in BSc thesis. Study of literature, technical regulations and standards. Selection of methods suitable for task solution. Application of manual and computer methods. Elaboration of the documentation of tasks executed. Writing a thesis.									
<b>Teaching methods</b>	multimedia presentation (students), discussion									
<b>Assessment method</b>	Evaluation of the BSc thesis									
<b>Symbol of learning outcome</b>	<b>Learning outcomes</b>							<b>Reference to the learning outcomes for the field of study</b>		
<b>LO1</b>	Student has the knowledge of the selected topics in the field of civil and environmental engineering							CBSE_W15		
<b>LO2</b>	Student has basic knowledge in the field of protection of intellectual property and patent law							CBSE_W13		
<b>LO3</b>	Students is familiar with the selected computer tools to support the calculation and design of elements and systems in civil and environmental engineering							CBSE_W09		
<b>LO4</b>	Student is able to obtain information from the literature and databases concerning different types of problems in civil and environmental engineering. Student can compare knowledge from different sources, interpret data, make conclusions, formulate and justify own opinions.							CBSE_U18		
<b>LO5</b>	Student knows the rules for the selection of methods and techniques for the implementation in engineering problems							CBSE_U11, CBSE_U20		

<b>L06</b>	Student can solve posted problem in civil and environmental engineering, prepare the technical description and explain the scope of the project.	CBSE_U11, CBSE_U17	
<b>L07</b>	Student can use the guidelines or standards in civil and environmental engineering	CBSE_W06, CBSE_W19, CBSE_U23	
<b>L08</b>	Student correctly identifies and resolves the issues of BSc thesis	CBSE_U17, CBSE_K03	
<b>Symbol of learning outcome</b>	<b>Methods of assessing the learning outcomes</b>	<b>Type of tuition during which the outcome is assessed</b>	
<b>L01</b>	evaluation of thesis	SW	
<b>L02</b>	evaluation of thesis	SW	
<b>L03</b>	evaluation of thesis	SW	
<b>L04</b>	evaluation of thesis	SW	
<b>L05</b>	evaluation of thesis	SW	
<b>L06</b>	evaluation of thesis	SW	
<b>L07</b>	evaluation of thesis	SW	
<b>L08</b>	evaluation of thesis	SW	
<b>Student workload (in hours)</b>		<b>No. of hours</b>	
<b>Calculation</b>	writing thesis	365	
	participation in student-teacher sessions related to the seminar	10	
	<b>TOTAL:</b>	375	
<b>Quantitative indicators</b>		<b>HOURS</b>	<b>No. of ECTS credits</b>
<b>Student workload – activities that require direct teacher participation</b>		10	0,4
<b>Student workload – practical activities</b>		375	15,0
<b>Basic references</b>	Basic literature concerning the subject thesis.		
<b>Supplementary references</b>			
<b>Organisational unit conducting the course</b>	Department of HVAC Engineering, Department of Building Structures and Architecture	<b>Date of issuing the programme</b>	
<b>Author of the programme</b>	Piotr Rynkowski, PhD, Eng Tomasz J. Teleszewski, PhD, Eng Marta Kosior-Kazberuk, Assoc. Prof. DSc, PhD, Eng	09.05.2019 r.	

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar