

COURSE DESCRIPTION CARD – SPECIMEN

Białystok University of Technology									
Field of study	Construction							Degree level and programme type	second degree stationary
Specialization/ diploma path	Building and Engineering Structures, Construction of Road Infrastructure, Construction and Maintenance of Building Objects							Study profile	general academic
Course name	Diploma seminar							Course code	EN-B2S31030
								Course type	
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	3
							30	No. of ECTS credits	2
Entry requirements	-								
Course objectives	Acquisition of skills and preparation of scientific and technical studies and master's thesis, a critical and comprehensive view of technical solutions. Developing the ability to assess the suitability and the possibility of using advanced tools and information sources to solve engineering problems. Developing the ability to compile, critically evaluate and present research results.								
Course content	Reminder of university regulations on the rules of conduct in the preparation and defense of thesis and departmental guidelines for the development of master's theses. Analysis of issues related to thesis within the specialization. Presentation of selected specialist issues in the field of construction, discussion of issues. Development trends in construction and the most important achievements in the field of specialization. Principles of formulating and testing hypotheses related to engineering problems and simple research problems. Principles of preparation of scientific and technical studies. Practical application of intellectual property protection law. Presentations on scientific and technical issues and thesis.								
Teaching methods	Seminar, information lecture, presentation, discussion								
Assessment method	Preparation of a presentation on the developed scientific and technical issues. Presentation and discussion of complex scientific and technical issues as well as the field of the MA thesis.								
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study	

EU1	has in-depth knowledge related to issues in the field of specialization and knows development trends in construction and the most important achievements in the field of specialization	K_B2_W01 K_B2_W02 K_B2_W03 K_B2_W04 K_B2_W05 K_B2_W09 K_B2_W11 K_B2_W12 K_B2_W13	
EU2	can use advanced tools to search for information and make a critical assessment of it, assess the usefulness and the possibility of using new achievements, techniques and technologies to solve engineering problems	K_B2_U01 K_B2_U02 K_B2_U06 K_B2_U09	
EU3	prepares a study preparing for starting scientific work, presents the results of own research, can prepare a presentation presenting the essence of a scientific or technical problem	K_B2_U12 K_B2_U13 K_B2_K01 K_B2_K02 K_B2_K06	
EU4	gives an oral presentation and leads a discussion	K_B2_U15 K_B2_K02 K_B2_K05	
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed	
EU1	presentation of selected issues in the field of specialties discussed at the seminar	S	
EU2	presentation of design, research or study issues in the field of the diploma thesis	S	
EU3	evaluation of the presentation and discussion of solutions in the thesis	S	
EU4	assessment of the presentation of specific issues in the field of construction and discussions	S	
Student workload (in hours)		No. of hours	
Calculation	participation in the seminar	30	
	studies of literature, preparation of issues at the seminar	5	
	development of assumptions and concepts for solving the problem set in the diploma thesis	8	
	preparation of a multimedia presentation	5	
	participation in consultations	2	
	TOTAL:	50	
Quantitative indicators		HOURS	No. of ECTS credits
Student workload – activities that require direct teacher participation		32	1,2
Student workload – practical activities		50	2

Basic references	1. Żurek E., Sztuka prezentacji czyli jak przemawiać obrazem (płyta CD), Wyd. Poltex, 2008. 2. Rawa T., Metodyka wykonywania inżynierskich i magisterskich prac dyplomowych, Wyd. Akademia Rolnicza, Olsztyn, 1999. 3. Grzybowski P.P., Sawicki K., Pisanie prac i sztuka ich prezentacji, Wyd. Impuls, 2010. 4. Pszczołowski T., Umiejętność przekonywania i dyskusji, Wyd. 3, Wyd. Wiedza Powszechna, Warszawa, 1974.	
Supplementary references	1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. Difin, 2010. 2. Denek K., Seminarium w szkole wyższej. Dydaktyka Szkoły Wyższej. - 1987, nr 1, s.137-149, 3. Zrównoważone budownictwo. Wydawnictwo: ITB - Instytut Techniki Budowlanej, 2010. 4. Brunarski L., Wyznaczanie niepewności wyników badań wytrzymałościowych, Poradnik 435/2008, Instytut Techniki Budowlanej, Warszawa. 5. Literatura specjalistyczna.	
Organisational unit conducting the course	Department of Building Structures and Architecture, Department of Geotechnics and Structural Mechanics, Department of Building and Road Engineering	Date of issuing the programme
Author of the programme	dr hab. inż. Jerzy Obolewicz, prof. dr hab. inż. Michał Boltryk	10.05.2020

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

S – seminar