

## DESCRIPTION OF THE COURSE OF STUDY

<b>Course code</b>	0541.6.MAT1.E.PD	
<b>Name of the course in</b>	Polish	<b>Pracownia dyplomowa</b>
	English	<b>Bachelor Thesis Workshop</b>

### 1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

<b>1.1. Field of study</b>	mathematics
<b>1.2. Mode of study</b>	full-time studies
<b>1.3. Level of study</b>	Undergraduate (Bachelor)
<b>1.4. Profile of study*</b>	general academic profile of studies
<b>1.5. Person/s preparing the course description</b>	dr Magdalena Nowak
<b>1.6. Contact</b>	mnowak@ujk.edu.pl

### 2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

<b>2.1. Language of instruction</b>	Polish and English
<b>2.2. Prerequisites*</b>	Lectures connected with the subject of the seminar

### 3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes		workshop
3.2. Place of classes		classes in the UJK teaching room
3.3. Form of assessment		graded credit
3.4. Teaching methods		Project, case study, discussions
3.5. Bibliography	Required reading	Depending on the subject of lectures
	Further reading	

### 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

<b>4.1. Course objectives (including form of classes)</b> <b>Workshop:</b> C1 - deepening of knowledge in the selected field of mathematics C2 - acquiring skills of preparing and editing the diploma thesis C3 - acquainting students with the literature on a selected topic C4 - improving the ability to prove mathematical theorems and select counterexamples C5 - implementing to precisely formulate the results of own work in oral and written form C6 - obtaining proficiency in independent planning of work and searching for necessary information C7 - forming an attitude characterized by systematicness and independence towards the tasks to be performed		
<b>4.2. Detailed syllabus (including form of classes)</b> <b>Workshop:</b> 1. Collection of professional literature in terms of the topic of the thesis. Translation from English of excerpts articles. Selection of available literature in terms of the topic of the thesis. 2. Assimilation of specialized knowledge and terminology (including foreign language terminology). 3. Collection of materials, (possibly) conducting a computational experiment, substantive and technical guidance. 3. Formulation of the topic of the work, selection of substantive content, examples and counter-examples. 4. Development of results and writing of the thesis. Taking care of the completeness of the thesis and formal correctness. 5. Substantive guidance. Undergraduate thesis reviews.		

#### 4.3. Intended learning outcomes

<b>Code</b>	<b>A student, who passed the course</b>	<b>Relation to learning outcomes</b>
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within the scope of <b>KNOWLEDGE:</b>		
W01	Has a deepened knowledge from a chosen branch of mathematics	MAT1A_W01 MAT1A_W02 MAT1A_W03 MAT1A_W04 MAT1A_W05 MAT1A_W14 MAT1A_W17
W02	Has an orientation in the current directions of development of the selected field of mathematics and its applications	MAT1A_W01 MAT1A_W02
within the scope of <b>ABILITIES:</b>		
U01	Constructs mathematical reasoning: proves theorems, selects counter-examples to refute erroneous hypotheses.	MAT1A_U01 MAT1A_U16 MAT1A_U19
U02	Presents mathematical contents in oral and written form in miscellaneous mathematical texts	MAT1A_U01 MAT1A_U02 MAT1A_U16
U03	Plans his work effectively.	MAT1A_U16 MAT1A_U18 MAT1A_U19
U04	Finds ourselves information about the subject, also in foreign languages	MAT1A_U15 MAT1A_U19
within the scope of <b>SOCIAL COMPETENCE:</b>		
K01	Precisely formulates questions to deepen one's own understanding of a topic or to find missing pieces of reasoning	MAT1A_K01 MAT1A_K06 MAT1A_K07

4.4. Methods of assessment of the intended learning outcomes									
Teaching outcomes (code)	Method of assessment (+/-)								
	Project*			Effort in class*			Self-study*		
	Form of classes			Form of classes			Form of classes		
	L	C	W	L	C	W	L	C	W
W01			+			+			+
W02			+			+			+
U01			+			+			+
U02			+			+			+
U03			+			+			+
U04			+			+			+
K01			+			+			+

4.5. Criteria of assessment of the intended learning outcomes		
Form of classes	Grade	Criterion of assessment
Workshop (W)	3	at least 50% and no more than 60% of the total number of points possible
	3,5	more than 60% and no more than 70% of the total number of points possible
	4	more than 70% and no more than 80% of the total number of points possible
	4,5	more than 80% and no more than 90% of the total number of points possible
	5	more than 90% of the total number of points possible

## 5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT

Category	Student's workload	
	Full-time studies	Extramural studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	<b>45</b>	
<i>Participation in seminars*</i>	45	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	<b>130</b>	
<i>Collection of materials</i>	45	
<i>Editing the thesis</i>	85	
<i>TOTAL NUMBER OF HOURS</i>	<b>175</b>	
ECTS credits for the course of study	<b>7</b>	

**Accepted for execution** (date and legible signatures of the teachers running the course in the given academic year)

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