

# SYLLABUS

## Course description

Course code		Course	PRACA PRZEJŚCIOWA		
MB/O/I/ST/C2A.17			SENIOR PROJECT		
Language of instruction		English			
Academic year		2023/2024			
field of study:		Mechanical engineering			
field of specialisation:		Designing and manufacturing of machines			
Educational level		first-cycle studies			
Education profile		General academic			
Mode of study		Full-time studies			
Semester(s)		6			
Affiliation with a group of classes		Specialization module			
Course status		Obligatory			
Types of classes, instruction hours, ECTS credits		Types of classes	Number of instruction hours	Number of ECTS credits	
		Lecture	0 [h]	2 ECTS	
		Classes	0 [h]		
		Seminar	30 [h]		
Linkage of the course	with the education profile	Associated with the conducted scientific activity in the discipline to which the field of study is assigned			0 ECTS
	with qualifications	It serves the student's acquisition of engineering competencies			2 ECTS
	with science discipline	Mechanical engineering			2 ECTS
Form of teaching		Traditional – classes organized at the University /classes conducted using online learning methods and techniques			
Prerequisites					
Department		Faculty of Mechanical Engineering			
Coordinator		dr inż. Wojciech Kucharczyk			
The website of the basic organizational unit		<a href="http://www.wm.uniwersytetradom.pl/">http://www.wm.uniwersytetradom.pl/</a>			
E-mail address, phone number of the coordinator		wojciech.kucharczyk@uthrad.pl, tel. 48 361 7680			

## LEARNING OUTCOMES, CURRICULUM CONTENT, TEACHING CLASSES, VERIFICATION OF LEARNING OUTCOMES

Learning Objective:	The aim is to familiarize students with formulating problems within the selected specialty. Preparing students for the implementation of the diploma thesis and for the presentation of the results achieved.
Curriculum Content:	<b>Project:</b> Requirements for transitional works. Copyright, responsibility for the written text, standards and publishing requirements. Presentation requirements for Senior Project. Project development. Preparation of project documentation. Presentations of transitional work projects.
Didactic (educational) methods:	<b>Project:</b> discussion, analysis and interpretation of source texts, team student projects.
Course assessment type, the criteria for assessing the achieved learning outcomes, and the method of calculating the final grade:	The condition for passing the course is to achieve all the required learning outcomes specified for the subject and obtaining positive grades using the assessment methods adopted for the subject. The final grade for the project is the sum of the grades: 60% project, 30% presentation, 10% activity in class.

Learning outcomes for the course in relation to the field of study learning outcomes and the type of classes				Methods of verifying learning outcomes	
Learning outcome number	Description of the learning outcomes for the course (PEU) A student who has passed the course ( <b>W</b> ) knows and understands / ( <b>U</b> ) can / ( <b>K</b> ) is ready to:	Field of study learning outcome (KEU)	Types of classes	Form of verification (credits)	Methods of testing and assessment
W1	Has basic knowledge in the field of structural and technological design of machine parts.	K_WG09 K_WG16	Seminar project	Graded credit	Evaluation of the project, active participation in classes
W2	He has knowledge in the field of computer-aided engineering methods used in the design and manufacturing process.	K_WG11 K_WG17	Seminar project	Graded credit	Evaluation of the project, active participation in classes
U1	Can - in accordance with the given specification - select methods and design and implement a simple device, facility, system or process, typical for the design and manufacturing process with the use of computer-aided engineering methods.	K_UW05 K_UW09 K_UW10	Seminar project	Graded credit	Evaluation of the project, active participation in classes
K1	He is aware of the responsibility related to decisions made as part of engineering activities, especially in terms of his own and other people's safety.	K_KO04	Seminar project	Graded credit	Evaluation of the project, active participation in classes

Literature and teaching aids
[1] Knecht Z.: Metody uczenia się i zasady pisanie prac licencjackich i magisterskich. Wydawnictwo Wyższej Szkoły Zarządzania we Wrocławiu, Wrocław 2002. [2] Budzeń H.: Przygotowanie pracy magisterskiej. Przewodnik metodyczny. Wydawnictwo Politechniki Radomskiej, Radom 2000. [3] Gambarelli G., Łucki Z.: Jak przygotować pracę dyplomową lub doktorską. Wybór tematu, pisanie, prezentowanie, publikowanie. Wydawnictwo UNIwersITAS, Kraków 1995. [4] Feld M.: Podstawy projektowania procesów technologicznych typowych części maszyn. WNT, Warszawa 2000 [5] Grzesik W., Niesłony P., Bartoszek M.: Programowanie obrabiarek NC/CNC. WNT, Warszawa 2006.

Student workload required to achieve the assumed learning outcomes – the balance of ECTS credits			
Attendance, participation	Student workload [h].		
	Other contact hours (IGK)	Student's self-study hours Classes without a teacher (ZBN)	Classes
Participation in lectures	X	X	X
Participation in seminar project	X	X	30 [h]
Meeting with teachers during their duty hours	2 [h]	X	X
Preparation for seminar project Preparation for pass	X	15 [h] 3 [h]	X
Total student workload	2 [h] / 0,1 ECTS	18 [h] / 0,7 ECTS	30 [h] / 1,2 ECTS
ECTS credits for the course	50 [h] / 2 ECTS		

Additional information, comments
<p>In the case of students with special needs, including disabilities, and chronic illnesses, the methods and forms of verification of learning outcomes specified above (in the syllabus) are adapted to the individual needs of these students, as appropriate.</p> <p>Detailed rules and forms of support for students with special needs, including those with disabilities and chronically ill, during classes, credits, and exams are specified in: University Regulations (Regulamin Studiów Uniwersytetu Technologiczno-Humanistycznego w Radomiu), Study Regulations (Zasady Studiowania), and Procedure for Ensuring Accessibility of the Educational Process to Students with Special Needs, Including Those with Disabilities and Chronically ill (Procedura dotycząca zapewnienia dostępności procesu kształcenia studentom ze szczególnymi potrzebami, w tym: z niepełnosprawnością, przewlekle chorych).</p>