

SYLLABUS

Course description

Course code		Course	PROJEKT WYBIERALNY		
MB/O/I/NST/C1A.2			ELECTIVE PROJECT		
Language of instruction		English			
Academic year		2023/2024			
field of study:		Mechanics and machine construction			
field of specialisation:		CAE			
Educational level		first-cycle studies			
Education profile		general academic			
Mode of study		part-time studies			
Semester(s)		5			
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	
		Project	16 [h]	2 ECTS	
Linkage of the course		with the education profile	related to the conducted scientific activity in the discipline to which the field of study is assigned (general academic profile)		0 ECTS
		with qualifications	serves the student to acquire engineering competences		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		Przemysław Motyl, PhD			
The website of the basic organizational unit		www.wm.uniwersytetradom.pl			
E-mail address, phone number of the coordinator		p.motyl@uthrad.pl			

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

Learning Objective:	Introduction to issues characteristic of the scope of education through creative work related to the development of the project.
Curriculum Content:	Selected issues in the field of mechanics, construction, construction, design of machine parts and related fields, regarding the deepening of knowledge, skills and interests enriching the basic program. Classes are held in the PBL (Project Based Learning) system. Participants must solve an engineering/research problem through project considerations conducted in a group and individually. The selection of problems is conditioned by the specificity of the scope of the field of study. The nature of the problems must be as general as possible and encourage cooperation and the development of individual design tools.
Didactic (educational) methods:	feeding methods (information lecture, lecture, reading), problem methods (problem lecture, conversational lecture), activating methods (case method, situational method, didactic games, seminar, didactic discussion), exposing methods (film, exhibition, show), programmed methods (with the use of a computer), practical methods,
Course assessment type, the criteria for assessing the achieved learning outcomes, and the method of calculating the final grade:	The condition for passing a subject is to achieve all the required learning outcomes specified for a given subject. Obtaining positive grades in all forms of classes included in the course is tantamount to passing it and gaining by the student the number of ECTS points assigned to the subject. The final grade is the average of grades from all forms of classes included in the course.

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 (W) knows and understands / (U) can / (K) is ready to:	Field of study learning outcome (KEU)	Types of classes	Form of verification (credits)	Methods of testing and assessment
W1	The student has knowledge of the use of computer methods in the design, diagnosis and elaboration of research results.	K_WG11	Project	Project	Correct execution of the task
W2	The student has knowledge in describing and presenting research results, design, analysis and diagnosis of technical systems.	K_WG09	Project	Project	Correct execution of the task
U1	The student is able to prepare a written study with project documentation containing the results of his work and a synthetic presentation of this study using a presentation program.	K_UW12	Project	Project	Correct execution of the task
U2	The student is able to choose methods and design and implement a simple device, object, system or process, typical for the design and manufacturing process using computer-aided engineering methods.	K_UW05 K_UW09 K_UW10	Project	Project	Correct execution of the task
K1	The student is able to constantly develop and supplement his knowledge.	K_KK01	Project	Project	Correct execution of the task

Literature and teaching aids
The literature will be determined by the lecturer in relation to the subject matter and nature of the classes.

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 classes	X	X	16 [h]
Participation in classes/laboratory classes	X	X	[h]
Meeting with teachers during their duty hours	6 [h]	X	X
Preparation for lectures/classes/.... , Preparation for ... credit / exam	X	24 [h] 4 [h]	X
Total student workload	6 [h]/ 0,3 ECTS	28 [h]/ 1,1 ECTS	16 [h]/ 0,6 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>

