

COURSE SPECIFICATION

Course code	full-time programme:	M#2-S1-ME-306				
Course code	part-time programme:					
Course title in Polish	Komputerowy zapis kor	Komputerowy zapis konstrukcji				
Course title in English	Computer-Aided Engine	Computer-Aided Engineering Drawing				
Valid from (academic year)	2024/2025					

GENERAL INFORMATION

Programme of study	MECHANICAL ENGINEERING
Level of qualification	first-cycle
Type of education	academic
Mode of study	full-time programme
Specialism	all
Department responsible	Department of Machine Design and Machining
Course leader	dr inż. Urszula Janus-Gałkiewicz
Approved by	dr hab. Jakub Takosoglu, prof. PŚk, Dean of the Faculty of Mechatronics and Mechanical Engineering

COURSE OVERVIEW

Course type		programme-specific
Course status		compulsory
Language of instruct	tion	English
Semester of	full-time programme	Semester III
delivery	part-time programme	
Pre-requisites		Technical drawing Engineering drawing
Examination required (YES/NO)		NO
ECTS value		2

Mode of instru	ction	lecture	class	laborator y	project	seminar
No. of hours	full-time programme			30		
per semester	part-time programme					

LEARNING OUTCOMES

Category of outcome	Outcome code	Course learning outcomes	Corresponding programme outcome code
Knowledge	W01	Has advanced knowledge in the field of engineering graphics that supports solving various types of engineering issues.	MiBM1_W03









	W02 Knows the principles, methods and purposes of creating technical documentation with elements of engineering design using graphic programs.				
	U01	Is able to use knowledge from the area of basic sciences to solve tasks at the design stage. Is able to make assessments and express opinions and comments.	MiBM1_U01		
Skills	U02	Is able to use computer software in the field of mechanics and machine design.	MiBM1_U02		
	U03 Is able to plan and implement his/her own learning, understands the need and knows the possibilities of continuous learning and improving professional qualifications.		MiBM1_U21		
	K01 He is ready to critically evaluate his knowled the need to acquire new information.		MiBM1_K01		
Competence	· ·		MiBM1_K06		

COURSE CONTENT

Type of instruction lecture	Topics covered					
laboratory	Sketch entities, sketch tools, sketch relations. Application of operations: Extruded boss/base, extruded cut, revolved boss/base, revolved cut, swept boss/base. Modification of parts by adding fillets and chamfers. Simplification by using circular, linear and mirror elements. Preparation of the drawings from parts (selection of the main view, six views, minimum number of views). Sections, half-section, partial section, assembly drawing. Types, symbols and selection of surface roughness. Tolerances: shape and position.					

ASSESSMENT METHODS

Outcome	Methods of assessment (Mark with an X where applicable)							
code	Oral examination	Written examination	Test	Project	Report	Other		
W01				Х				
W02				Х				
U01			Х					
U02			Х					
U03			Х					
K01				Х				
K02				Х				

ASSESSMENT TYPE AND CRITERIA

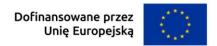
Mode of instruction	Assessment type	Assessment criteria
mstruction		











laboratory	non-examination	Passing two tests with a minimum of 50%.
laboratory	assessment	r assing two tests with a minimum of 50%.

OVERALL STUDENT WORKLOAD

ECTS weighting												
		Student workload									Unit	
No.	Activity type			II-tin			part-time					
			•	gram				•	gram			
1.	Scheduled contact hours	L	С	Lb	Р	S	L	С	Lb	Р	S	h
••				30								
2.	Other contact hours (office hours, examination)			2								h
3.	Total number of contact hours		32					h				
4.	Number of ECTS credits for contact hours	1,3					ECTS					
5.	Number of independent study hours		18							h		
6.	Number of ECTS credits for independent study hours		0,7							ECTS		
7.	Number of practical hours			50								h
8.	Number of ECTS credits for practical hours	2,0				ECTS						
9.	Total study time	50				h						
10.	ECTS credits for the course 1 ECTS credit = 25-30 hours of study time					2	2					ECTS

READING LIST

- 1. Dobrzański T., (2019), Rysunek techniczny maszynowy, Wydawnictwo Naukowe PWN, WNT, Warszawa
- 2. Lewandowski T., (2018), Rysunek techniczny dla mechaników, wyd. 17, Wyd. Szkolne i Pedagogiczne, Warszawa
- 3. Molasy R., (2012), Grafika Inżynierska, Wydawnictwo Politechniki Świętokrzyskiej, Kielce
- 4. Narayana K.L., Kannaiah P., Venkata K., (2006), Machine drawing, New Age International (P) Ltd.
- 5. Simmons C.H., Phelps N., Maguire D.E., (2012), Manual of Engineering Drawing, Elsevier
- 6. Kęska P. (2018), SOLIDWORKS 2018 Nowości w programie, porady praktyczne oraz ćwiczenia, CADvantage, Warszawa, 2018



