

MODULE DESCRIPTION

Module code	full-time studies:	Z-ZIP1-E-209					
	part-time studies:	Z-ZIPN1-E-209					
Module name	Engineering Graph	Engineering Graphics – SolidWorks					
Module name in Polish	Grafika inżynierska	Grafika inżynierska – SolidWorks					
Valid from academic year	2019/2020						

MODULE PLACEMENT IN THE SYLLABUS

Field of study	MANAGEMENT AND PRODUCTION ENGINEERING
Level of education	1st degree
Studies profile	General
Form and method of conducting classes	Full-time and Part-time
Specialisation	All
Unit conducting the module	Department of Production Engineering
Module co-ordinator	Artur Szmidt, PhD
Approved by:	Dariusz Bojczuk, PhD, DSc

MODULE OVERVIEW

Type of subject / group of subjects	Major
Module status	Compulsory
Language of conducting classes	English
Module placement in the syllabus - semester	Semester II
Initial requirements	Engineering Graphics
Examination (YES/NO)	NO
Number of ECTS credit points	2

Method of conducting classes		Lecture	Classes	Laborato- ry	Project	Other
Per	full-time studies:			30		
semester	part-time studies:			18		

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Category	Category Symbol Learning outcomes				
Skills	U01The student is able to obtain information from literature, databases and other sources; can combine the obtained information, analyze and interpret, draw conclusions, formulate and justify opinions.				
	U02	The student acquires the ability to read and analyze the received technical documentation regarding the construction of mechanical parts.	ZIP1_U03		
Social competences			ZIP1_K01		

TEACHING CONTENTS

Method of conducting classes	Teaching contents
Laboratory	Introduction to the system. Simple drawing edits. Principles of dimensioning. Creating drawing layers. Drawing cross-sections. Executive drawing of a simple detail. Executive drawing of a complex detail. Manufacturing drawing of the machine shaft. Detail drawing with consideration of roughness and tolerance. Drawing of bolted connections. Drawing of welded joints. Drawing of a gear wheel. Drawing of the pulley. Executive drawing of the body.
	General assembly drawing of the selected device.

METODS OF ASSESSING TEACHING RESULTS

Symbol		Method	s of checking t (sele	the learning of ect X)	utcomes	
	Oral exam	Written exam	Test	Project	Statement	Other
U01				Х		
U02				Х		
K01				Х		

FORM AND CONDITIONS OF PASSING

Form of classes	Form of credit	Passing conditions
Laboratory	Credit with grade	Correct execution of all the drawings, positive evaluation of the test.

STUDENT WORKLOAD

Balance of ECTS points												
No.	Type of student's activity		Student's workload								Unit	
NO.	Type of student's activity	full-time				part-time					Unit	
1.	1. Participation in the activities		С	Lb	Ρ	0	Lc	С	Lb	Р	0	h
1.				30					18			
2.	Other (consultation, exam)			2					2			h
3.	Number of hours of a student's as- sisted work		32		20					h		
4.	Number of ECTS credit points which are allocated for assisted work		1,3			0,8					ECTS	
5.	Number of hours of a student's un- assisted work		18			30				h		
6.	Number of ECTS credit points which a student receives for unassisted work		0,7		1,2				ECTS			
7.	Work input connected with practical classes	50		50					h			
8.	Number of ECTS credit points which a student receives for practical classes	2,0			2,0					ECTS		
9.	Total number of hours of a stu- dent's work	50			50				h			
10.	Punkty ECTS za moduł 1 ECTS=25 hours		2				ECTS					

LITERATURE

- 1. Bethune J.D. (2017), *Engineering design and graphics with SolidWorks 2016*, Pearson Education, Boston (https://btu.edu.eg/wp-content/uploads/2020/03/Engineering-Design-and-Graphics-with-SolidWorks-2016.pdf)
- 2. Dassault Systems (2014), Introducing SolidWorks (https://files.solidworks.com/pdf/introsw.pdf)
- 3. Zeid I. (2015), *Mastering SolidWorks. The Design Approach*, Pearson Education, New Jersey (http://repo.darmajaya.ac.id/4194/1/Mastering%20SolidWorks_%20The%20Design%20Approach %20%28%20PDFDrive%20%29.pdf)
- 4. Basics of SolidWorks Tutorial (https://thecube.eng.ua.edu/wp-content/themes/ua-theme-coechild/assets/instructions/SolidWorks-Tutorial.pdf)