

MODULE DESCRIPTION

Module code	Z-ZIP-413z
Module name	Dokumentacja technologiczna
Module name in English	Technological Documentation
Valid from academic year	2016/2017

A. MODULE PLACEMENT IN THE SYLLABUS

Field of study	Management and Production Engineering
Level of education	1st degree <i>(1st degree / 2nd degree)</i>
Studies profile	General <i>(general / practical)</i>
Form and method of conducting classes	Full-time <i>(full-time / part-time)</i>
Specialisation	Production and Innovations Management
Unit conducting the module	The Department of Production Engineering
Module co-ordinator	Prof. Josef Zajac, PhD hab., Eng.
Approved by:	

B. MODULE OVERVIEW

Type of subject/group of subjects	Specialist subject <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	English
Module placement in the syllabus - semester	5th semester
Subject realisation in the academic year	Winter semester <i>(winter semester/ summer)</i>
Initial requirements	No requirements <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	1

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester				15	

C. TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	The aim of the module is to acquire the skills and understand the principles of preparing documentation of manufacturing goods in simple machining processes.
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Effect symbol	Teaching results	Teaching methods (l/c/lab/p/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student has knowledge as regards the principles of preparing and using technological documentation.	p	K_W06	T1A_W04
W_02	A student has knowledge as regards manufacturing techniques and the materials used.	p	K_W07 K_W09	T1A_W04 T1A_W06
U_01	A student is able to prepare simple documentation as regards the realisation of an engineering task.	p	K_U01	TA1_U03
U_02	A student is able to work individually and in a team; a student is also able to estimate the time necessary to realise a commissioned task.	p	K_U17	TA1_U02
K_01	A student is able to work individually and in a team; a student is also able to estimate the time necessary to realise a commissioned task.	p	K_K04	TA1_K01

Teaching contents:

1. Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module

2. Teaching contents as regards classes

Class number	Teaching contents	Reference to teaching results for a module

3. Teaching contents as regards laboratory classes

Laboratory class number	Teaching contents	Reference to teaching results for a module

4. The characteristics of project assignments

As part of project classes students prepare, either individually or in groups up to 3 people, simplified technological documentation connected with manufacturing simple products; e.g. parts of machines and devices in subtractive and non-subtractive machining. Products included in documentation are determined individually (they are not repeated in subsequent years). The papers are submitted in a written form.

Project class number	Teaching contents	Reference to teaching results for a module
1	Presenting and discussing the structure and contents of the project including technological documentation. Setting documentation contents for particular teams.	W_01 W_02 U_01 U_02 K_01
2	Presenting the progress in task realisation and discussions about the directions of future research.	W_01 W_02 U_01 U_02 K_01
3	Presenting the progress in task realisation and discussions about the directions of future research.	W_01 W_02 U_01 U_02 K_01
4	Presenting the progress in task realisation and discussions about the directions of future research.	W_01 W_02 U_01 U_02 K_01
5	Presenting the progress in task realisation and discussions about the directions of future research.	W_01 W_02 U_01 U_02 K_01
6	Presenting the completed projects, discussion and justification of the suggested solutions – paper assessment.	W_01 W_02 U_01 U_02 K_01
7	Presenting the completed projects, discussion and justification of the suggested solutions – paper assessment.	W_01 W_02 U_01 U_02 K_01
8	Summary and discussing the selected students' works.	W_01 W_02 U_01 U_02 K_01

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results <i>(assessment method, including skills – reference to a particular project, laboratory assignments, etc.)</i>
W_01	Monitored progress and a final discussion.
W_02	Monitored progress and a final discussion.
U_01	Monitored progress and a final discussion.
U_02	Monitored progress and a final discussion.
K_01	Monitored progress and a final discussion.

D. STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	
2	Participation in classes	
3	Participation in laboratories	
4	Participation in tutorials (2-3 times per semester)	
5	Participation in project classes	15
6	Project tutorials	3
7	Participation in an examination	
8		
9	Number of hours requiring a lecturer's assistance	18 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS point=25-30 hours)</i>	0.6
11	Unassisted study of lecture subjects	
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratories	
15	Preparing reports	
15	Preparing for a final laboratory test	
17	Preparing a project or documentation	12
18	Preparing for an examination	
19		
20	Number of hours of a student's unassisted work	12 <i>(sum)</i>
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS point=25-30 hours)</i>	0.4
22	Total number of hours of a student's work	30
23	ECTS points per module <i>1 ECTS point=25-30 hours</i>	1
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	27
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS point=25-30 hours)</i>	0.9

E. LITERATURE

Literature list	
Module website	