

## MODULE DESCRIPTION

Module code	<b>Z-ZIP2-0536</b>
Module name	<b>Zarządzanie Projektem</b>
Module name in English	<b>Project Management</b>
Valid from academic year	<b>2016/2017</b>

## A. MODULE PLACEMENT IN THE SYLLABUS

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

## B. MODULE OVERVIEW

Type of subject/group of subjects	<b>Major</b> <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	<b>Compulsory</b> <i>(compulsory / non-compulsory)</i>
Language of conducting classes	<b>English</b>
Module placement in the syllabus - semester	<b>1st semester</b>
Subject realisation in the academic year	<b>Summer semester</b> <i>(winter semester/ summer)</i>
Initial requirements	<b>No requirements</b> <i>(module codes / module names)</i>
Examination	<b>No</b> <i>(yes / no)</i>
Number of ECTS credit points	<b>3</b>

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester	<b>15</b>			<b>15</b>	

### C. TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

<b>Module target</b>	The acquisition of skills related to project management including: defining the project, planning and organizing the execution of the project, implementation and the completion of the project. Particular attention is paid to issues related to building a network of events, scheduling, resource optimization and risk management
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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 the knowledge of the project management with a focus on the contemporary methodologies and tools belonging to the competence of engineer and manager with regard to innovation activities.	w	K_W07	T2A_W02 T2A_W02 T2A_W05
W_02	A student has the knowledge of management in a market economy, taking into account the principles of economics with the use of synergies arising from the engineering and management knowledge.	w	K_W08 K_W09 K_W011	S2A_W06 S2A_W08 S2A_W11 T2A_W09 T2A_W11
U_01	A student is able to prepare a management plan for a simple project and acts as a project manager with the use of management systems.	p	K_U06 K_U03	T2A_U07 T2A_U10 T2A_U08 T2A_U15 T2A_U17
U_02	A student is able to work individually and in a team; knows how to estimate the time needed for the commissioned task.	p	K_U02	T2A_U02 T2A_U06
K_01	A student appreciates the importance of a continuous process of learning and acquiring specialized knowledge and skills as the basis for creative and entrepreneurial thinking.	p	K_K01 K_K02	T2A_K01 T2A_K06 T2A_K02 T2A_K04

#### Teaching contents:

##### 1. Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	Definitions of projects. Types of projects. History of project management examples. Objectives, tasks and triangle restrictions in projects. Problematic areas of the project management.	K_W07 K_W08 K_W09 K_W11
2	Methodology of project management. Basic parameters of the project. Organisational structures in the implementation of projects. The selection of the project team and the division of labour.	K_W07 K_W08 K_W09 K_W11
3	Project management methods. Techniques Network - deterministic and stochastic. The project schedule, Gantt chart.	K_W07 K_W08 K_W09 K_W11
4	Types of resources in the project, allocation of resource optimization. The impact of optimization on network events and schedule.	K_W07 K_W08 K_W09 K_W11

5	Cost planning and cost management. Methods of estimating and calculating costs. Optimizing the costs management.	K_W07 K_W08 K_W09 K_W11
6	Project management – a case study; Investment projects (hard), organizational projects (soft).	K_W07 K_W08 K_W09 K_W11
7	Implementation of projects and management of the progress of work. Information systems of project management.	K_W07 K_W08 K_W09 K_W11
8	A written test.	K_K01 K_K02

## 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

Project number	Teaching contents	Reference to teaching results for a module
1	Discussion of the subjects of projects. Presentation of the projects' scope. Presentation of some examples of projects carried out in previous years. The division into groups (up to 3 people). Presentation of proposals on the themes of projects.	K_U02 K_U03 K_U06 K_K01 K_K02
2	Presentation of proposals for the projects' topics for each team – discussion and agreement on their scope. Discussion on the work schedule on the projects.	K_U02 K_U03 K_U06 K_K01 K_K02
3	Presentation of the made parts of the projects – discussion.	K_U02 K_U03 K_U06 K_K01 K_K02
4	Presentation of the made parts of the projects – discussion.	K_U02 K_U03 K_U06 K_K01 K_K02
5	Presentation of the made parts of the projects – discussion.	K_U02 K_U03

		K_U06 K_K01 K_K02
6	Presentation of the whole projects, discussion and evaluation.	K_U02 K_U03 K_U06 K_K01 K_K02
7	Presentation of the whole projects, discussion and evaluation.	K_U02 K_U03 K_U06 K_K01 K_K02
8	A summary of the work of the whole group. Indication of the strengths and weaknesses of the projects, presentation of the selected ones.	K_U02 K_U03 K_U06 K_K01 K_K02

### The methods of assessing teaching results

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

## D. STUDENT'S INPUT

ECTS credit points		
	Type of student's activity	Student's workload
1	Participation in lectures	15
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	6
7	Participation in an examination	
8		
9	<b>Number of hours requiring a lecturer's assistance</b>	<b>36</b> <i>(sum)</i>
10	<b>Number of ECTS credit points which are allocated for assisted work</b> <i>(1 ECTS point=25-30 hours)</i>	<b>1,5</b>
11	Unassisted study of lecture subjects	15
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	30
18	Preparing for an examination	
19	Preparing for an examination on the lecture	5
20	<b>Number of hours of a student's unassisted work</b>	<b>50</b> <i>(sum)</i>
21	<b>Number of ECTS credit points which a student receives for unassisted work</b> <i>(1 ECTS point=25-30 hours)</i>	<b>1.5</b>
22	<b>Total number of hours of a student's work</b>	<b>86</b>
23	<b>ECTS points per module</b> <i>1 ECTS point=25-30 hours</i>	<b>3</b>
24	<b>Work input connected with practical classes</b> <i>Total number of hours connected with practical classes</i>	<b>36</b>
25	<b>Number of ECTS credit points which a student receives for practical classes</b> <i>(1 ECTS point=25-30 hours)</i>	<b>1.5</b>

## E. LITERATURE

Literature list	<ol style="list-style-type: none"> <li>1. Barker S., Cole R., <i>Zarządzanie projektem</i>, PWE, Warszawa 2010.</li> <li>2. Heerkens C.R., <i>Jak zarządzać projektami</i>, Wyd. READ ME, Warszawa 2003.</li> <li>3. Kerzner H., <i>Zarządzanie projektami – studium przypadków</i>, Wyd. Helion, Gliwice 2005.</li> <li>4. Lewis J.P., <i>Podstawy zarządzania projektami</i>, Wyd. Helion, Gliwice 2006.</li> <li>5. Mingus N., <i>Zarządzanie projektami</i>, Wyd. Helion, Gliwice 2002.</li> <li>6. Parker S., Cole R., <i>Zarządzanie projektem</i>, PWE Warszawa 2010.</li> <li>7. Trocki M., Grucza B., Ogonek K., <i>Zarządzanie projektami</i>, PWE Warszawa 2003.</li> </ol>
Module website	