MODULE DESCRIPTION

Module code	**Z-ZIP2-0428**
Module name	**Zintegrowane systemy zarządzania**
Module name in English	**Integrated Management Systems**
Valid from academic year	**2016/2017**

A. MODULE PLACEMENT IN THE SYLLABUS

Field of study	**Management and Production Engineering**
Level of education	**2nd degree** *(1st degree / 2nd degree)*
Studies profile	**General** *(general / practical)*
Form and method of conducting classes	**Full-time** *(full-time / part-time)*
Specialisation	**All**
Unit conducting the module	**The Department of Production Engineering**
Module co-ordinator	**Sławomir Luściński, PhD**
Approved by:	

B. MODULE OVERVIEW

Type of subject/group of subjects	**Basic** *(basic / major / specialist subject / conjoint / other HES)*
Module status	**Compulsory** *(compulsory / non-compulsory)*
Language of conducting classes	**English**
Module placement in the syllabus - semester	**1st semester**
Subject realisation in the academic year	**Summer semester** *(winter semester/ summer)*
Initial requirements	**No requirements** *(module codes / module names)*
Examination	**No** *(yes / no)*
Number of ECTS credit points	**2**

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

C. TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS

Module target	The aim of the module is to familiarise students with the theory and practice of integrated management systems in order to shape a general approach to the selection and implementing information solutions integrating given functionality areas in an enterprise.

Effect symbol	Teaching results	Teaching methods *(l/c/l/p/other)*	Reference to subject effects	Reference to effects of a field of study
W_01	A student has deep knowledge of the information and decision-making approach to managing organisations. A student knows and understands the essence and structure of the information system as well as the Management Information System (MIS). A student has knowledge of the technological evolution of MIS and also knows as well as understands the applied typologies and basic properties of MIS.	l	K_W04	T2A_W03 S2A_W06
W_02	A student has knowledge of computer solutions applied in supporting and integrating both operational and administrative enterprise management.	l/p	K_W12	T2A_W05 S2A_W06
W_03	A student knows and understands a strategic perspective of utilising MIS in an organisation. In addition, a student has knowledge of the selection criteria and the process of implementing IMS in an enterprise.	l/p	K_W09	T2A_W09 T2A_W11 S2A_W11
U_01	A student has the ability to independently proposing the use of information systems adequate to the needs of enterprise in the field of management support.	l/p	K_U01	T2A_U01
U_02	A student can prepare and give a multimedia presentation and hold a discussion on the results of the completed project task of theoretical and analytical work.	p	K_U05	T2A_U04 T2A_U06 T2A_U07
U_03	A student can prepare a written report on the results of the completed project task of theoretical and analytical work.	p	K_U04	T2A_U03 T2A_U08
K_01	A student understands the innovative nature of the development of both information systems and their applications, which implies a requirement for continuing education in this field.	l/p	K_K01	T2A_K01 T2A_K06

Teaching contents:

1. Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	**Introduction to data management and information processing** The concept of data and information. Information and decision-making processes. Information gap. The stages of the decision-making process. Hierarchical management structure and information flow as well as liability levels.	W_01 K_01

2	**The essence and structure of Management Information Systems** An information system, a computer system, and the Management Information System. Technological evolution of MIS. The concept of integrated MIS, integration types. The classification of MIS as regards technology criteria. MIS typologies.	W_01 W_02 K_01
3	**The description of records and operational Management Information Systems** Integrated computer financial accounting systems, Production Planning and Control (PPC) systems, Computer Integrated Manufacturing (CIM) systems, Customer Relationship Management (CRM) systems, Supply Chain Management (SCM) systems, Enterprise Resource Planning (ERP) systems, Workflow Management systems (WMS), and Office Automation Systems (OAS).	W_02 U_01
4	**The description of analytics and informative Management Information Systems** Executive Information Systems (EIS), Decision Support Systems (DSS), Executive Support Systems (ESS), and Business Intelligence (BI) systems. Advanced BI tools, automatisation tools of the decision-making processes.	W_02 U_01
5	**Strategic perspective of utilising Management Information Systems in an organisation** The influence of MIS on enterprise activity. The role of MIS in creating a strategic position of an enterprise: the MIT'90 model, the Strategic Grid for IT, M. Porter's value chain, M. Porter's competitive forces model, N. Venkatraman's business reconfiguration model. Dynamic character of the MIS's driven strategic advantage.	W_03 U_01 K_01
6	**Management Information Systems development models** Models of organisational change, strategic alignment, maturity model. The model of the Organization Development Map.	W_03 U_01 K_01
7	**Implementing Integrated Management Information Systems in an enterprise** Enterprise needs. Standard systems. Dedicated systems. Implementation methodology. Implementation schedule. Typical risks occurring during the implementation process.	W_03 U_01

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

Characteristics	Reference to teaching results for a module
As a project assignment, students (organised in groups of 2 or 3) prepare and submit in a written form an in-depth analysis of a given MIS type including the following: a description of the subject class of systems, an example of a standard solution available on the market, a description of implementation indicating the conditioning, and possibly a dedicated methodology as well as typical activities during the implementation process. Students discuss the main elements of their project in a group forum and consult them with the lecturer during project classes. Final presentation of a team project takes place using the individually prepared multimedia presentations. The final presentation is discussed and evaluated in a group. A credit for project classes is obtained on the basis of marks of the submitted and defended project assignments as well as the evaluation of final presentations. Written part evaluation includes the following criteria: the layout and content completeness, content correctness, editorial and graphical work. Final presentation assessment covers the content of the presentation, the selection and appropriateness of the multimedia elements used, neatness and originality of presentation, and time management during the presentation.	W_02 W_03 U_01 U_02 U_03 K_01

The methods of assessing teaching results

Effect symbol	Methods of assessing teaching results *(assessment method, including skills – reference to a particular project, laboratory assignments, etc.)*
W_01	A final test.
W_02	A final test. A project assignment.
W_03	A final test. A project assignment.
U_01	A project assignment. A discussion during project classes.
U_02	A project assignment. A discussion during project classes.
U_03	A project assignment. A discussion during project classes.
K_01	A final test. A project assignment. A discussion during the classes.

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)	**3**
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**	**36** *(sum)*
10	**Number of ECTS credit points which are allocated for assisted work** *(1 ECTS point=25-30 hours)*	**1.18**
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	**10**
18	Preparing for an examination	
19	Unassisted study of lecture subjects	
20	**Number of hours of a student's unassisted work**	**25** *(sum)*
21	**Number of ECTS credit points which a student receives for unassisted work** *(1 ECTS point=25-30 hours)*	**0,82**
22	**Total number of hours of a student's work**	**61**
23	**ECTS credit points per module** *1 ECTS point=25-30 hours*	**2**
24	**Work input connected with practical classes** *Total number of hours connected with practical classes*	**28**
25	**Number of ECTS credit points which a student receives for practical classes** (1 ECTS point=25-30 hours)	**0.91**

E. LITERATURE

Literature list	1. Chaffey D., White G., *Business Information Management: Improving Performance Using Information Systems* (2nd Edition), Financial Times Management 2010. ISBN: 978-0273711797. 2. Laudon K., Laudon J., *Management Information Systems: Managing the Digital Firm*, 14/e, Prentice Hall 2015. ISBN: 9780133898163. 3. Marakas G., O'Brien J., *Introduction to Information Systems - Loose Leaf* (16th Edition), Irwin/McGraw-Hill 2012. ISBN: 9780073376882. 4. Marakas G., O'Brien J., *Management Information Systems* (10th Edition), Irwin/McGraw-Hill 2010. ISBN: 9780073376813. 5. Sharda R., Delen D., Turban E., Bus*iness Intelligence and Analytics: Systems for Decision Support*, 10/E. Prentice Hall 2013. ISBN: 9780133050905.
Module website	www.wzimk-moodle.tu.kielce.pl