



MODULE DESCRIPTION

Module code	
Module name	Informatyczne systemy zarządzania
Module name in English	Information Management Systems
Valid from academic year	2012/2013

MODULE PLACEMENT IN THE SYLLABUS

Subject	Computer Science
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	Information Systems
Unit conducting the module	The Department of Control and Management Systems
Module co-ordinator	Paweł Sitek, PhD, Eng.
Approved by:	

MODULE OVERVIEW

Type of subject/group of subjects	Major <i>(basic / major / specialist subject / conjoint / other HES)</i>
Module status	Compulsory <i>(compulsory / non-compulsory)</i>
Language of conducting classes	Polish
Module placement in the syllabus - semester	6th semester
Subject realisation in the academic year	Summer semester <i>(winter / summer)</i>
Initial requirements	Databases 1 and 2 <i>(module codes / module names)</i>
Examination	No <i>(yes / no)</i>
Number of ECTS credit points	4

Method of conducting classes	Lecture	Classes	Laboratory	Project	Other
Per semester	30		30		

TEACHING RESULTS AND THE METHODS OF ASSESSING TEACHING RESULTS



Projekt współfinansowany ze środków Unii Europejskiej w ramach Europejskiego Funduszu Społecznego

Module target	The aim of the module is to present basic production management processes, enterprise logistics, design and implementation methods in ERP-class information management systems.
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Effect symbol	Teaching results	Teaching methods (I/c/I/p/other)	Reference to subject effects	Reference to effects of a field of study
W_01	A student is knowledgeable about the structure and classification of information management systems.	I	K_W18 K_W19	T1A_W01 T1A_W02 T1A_W09
W_02	A student is knowledgeable about particular types of production and logistics processes as well as their structure.	I	K_W19	T1A_W09
W_03	A student knows basic design, programming, and scheduling methods of production, logistics, and support processes.	I	K_W03	T1A_W02 T1A_U09
W_04	A student has knowledge of supply chain and its particular elements.	I	K_W18	T1A_W03 T1A_W02 T1A_U09
U_01	A student is able to design product structure in the form of BOM as well as production structure together with numerical data.	I/I	K_U10	T1A_U09 T1A_U07 T1A_U10
U_02	A student can implement constant data (product structures, production, etc.) as well as variable data (orders) in information management system.	II	K_U09	T1A_U09 T1A_U07
U_03	A student is capable of using planning and scheduling methods concerning production as well as logistics processes; a student is also able to verify and analyse the obtained results.	I/I	K_U01	T1A_U09 T1A_U07 T1A_U16
K_01	A student can determine task priorities.	I	K_K03	T1A_K04
K_02	A student is capable of teamwork and solving tasks collectively.	I	K_K03	T1A_K03

Teaching contents:

Teaching contents as regards lectures

Lecture number	Teaching contents	Reference to teaching results for a module
1	Basic notions connected with information management systems.	W_01
2,3	Basic notions concerning production and logistics processes, production types.	W_01 W_02
4	Supply chains.	W_01 W_04
5	Sample production enterprise: a design of a production, logistics, and product structure; constant and variable data.	U_01 W_02
6	Constant and variable data implementation in a sample ERP-class system.	W_02 U_01
7,8	Material Requirements Planning (assumptions, algorithm, numerical examples).	W_03
9	The MPR method in a sample ERP system.	W_03 U_03
10	The JIT method.	W_02



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11,12	Task scheduling methods in basic production organization forms: job-shop, flow-shop, and open-shop.	W_03 U_03
13,14	Beyond ERP: SCM and CRM-class systems, the systems of production and logistics processes simulation and visualisation.	W_01 W_04
15	A final test.	

Teaching contents as regards laboratory classes

Laboratory classes are conducted in teams of two

Laboratory class number	Teaching contents	Reference to teaching results for a module
1	Introduction to laboratory classes, issuing individual subjects, familiarising students with the laboratory environment and the principles of work.	K_01
2,3,4	A project of a sample production plant – constant data, production structure, and product structures.	U_01 K_01 K_02
5,6,7	Project implementation in a sample ERP-class enterprise management system as regards laboratory classes No 2 and 3.	U_02
8	Preparing variable data as regards production orders.	U_03 K_02 K_01
9	Starting the MRP module of a sample ERP-class system for data from laboratory classes No 5-8; verifying the obtained results.	U_03
10	Process simulation system – sample process simulation.	U_03
11,12,13	Simulation of the selected processes concerning the designed production plant.	U_03 K_01 K_02
14	The analysis of the obtained results from laboratory classes No 9, 11-13 and data correction.	U_03 K_01 K_02
15	A final test.	

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	A final test on the lectures.
W_02	A final test on the lectures, reports on laboratory classes No 2-4.
W_03	A final test on the lectures.
W_04	A final test on the lectures.
U_01	A final test on the lectures, reports on laboratory classes No 2-4.
U_02	A final test on the lectures, reports on laboratory classes No 5-7.
U_03	A final test on the lectures, reports on laboratory classes No 9, 11-14.
K_01	Reports on laboratory classes.
K_02	Reports on laboratory classes.

STUDENT'S INPUT

ECTS credit points	
Type of student's activity	Student's workload



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1	Participation in lectures	30
2	Participation in classes	
3	Participation in laboratories	30
4	Participation in tutorials (2-3 times per semester)	2
5	Participation in project classes	
6	Project tutorials	
7	Participation in an examination	
8		
9	Number of hours requiring a lecturer's assistance	62 <i>(sum)</i>
10	Number of ECTS credit points which are allocated for assisted work <i>(1 ECTS credit point=25-30 hours)</i>	2.5
11	Unassisted study of lecture subjects	10
12	Unassisted preparation for classes	
13	Unassisted preparation for tests	
14	Unassisted preparation for laboratories	10
15	Preparing reports	5
16	Preparing for a final laboratory test	5
17	Preparing a project or documentation	5
18	Preparing for an examination	5
19	Preparing questionnaires	
20	Number of hours of a student's unassisted work	40
21	Number of ECTS credit points which a student receives for unassisted work <i>(1 ECTS credit point=25-30 hours)</i>	1.5
22	Total number of hours of a student's work	102
23	ECTS credit points per module <i>1 ECTS credit point=25-30 hours</i>	4
24	Work input connected with practical classes <i>Total number of hours connected with practical classes</i>	60
25	Number of ECTS credit points which a student receives for practical classes <i>(1 ECTS credit point=25-30 hours)</i>	2.5