UNIVERSITY
OF ECONOMICS AND HUMAN SCIENCES
IN WARSAW

Field of study:

Management

Subject: IT in management

Level of study: undergraduate studies
System of study: Full-time
Profile of studies: general academic
Subject: IT in management

Form of classes and the ECTS points

	Number of hours	ECTS points	Credit
lectures	30		exam
exercises	24		credit with mark
Total	54	8	

Aims of teaching

The aim of the course is to familiarize students with the basics of computer science to support management. To enable the student to acquire minimum practical skills in using database management. Transmission of information on management information systems. Introducing a student to the fundamentals of SQL.

Intended learning outcomes

KNOWLEDGE		
SYMBOL	**DESCRIPTION**	**REFERENCE TO THE PROFILE OUTCOME**
P_W1	Student has the knowledge about defining basic notions of systemic approach to the application of IT in management.	Zarz_WG01_Lic Zarz_WG03_Lic Zarz_WG07_Lic
P_W2	Student is knowledgeable about the use of information technology (databases) to support management	Zarz_WG01_Lic Zarz_WG03_Lic Zarz_WG07_Lic
P_W3	Student knows the basic utility applications to support management at the administrative and disposition level of enterprise	Zarz_WG01_Lic Zarz_WG10_Lic
P_W4	Student knows the basic principles of decision support at the information and decision level of the company	Zarz_WG03_Lic Zarz_WG07_Lic
P_W5	Student is knowledgeable about the application of computer science to production control	Zarz_WG01_Lic Zarz_WG03_Lic
P_W6	Student has knowledge in the field of computer science in e-business	Zarz_WG03_Lic Zarz_WG07_Lic

SKILLS		
SYMBOL	**DESCRIPTION**	**REFERENCE TO THE PROFILE OUTCOME**
P_U1	Student is able to define systemically management of an enterprise, including information flows	Zarz_UW04_Lic
P_U2	Student has the ability to format data for a particular IT application (SQL notation)	Zarz_UW04_Lic
P_U3	Student is able to define the conditions of the company's operation in view of e-business elements	Zarz_UW02_Lic
P_U4	Student has the ability to indicate which IT technologies can be included in the management system	Zarz_UW01_Lic
P_U5	The student is able to indicate the assumptions of the decision model for a specific decision support system	Zarz_UW02_Lic

SOCIAL COMPETENCES

SYMBOL	DESCRIPTION	REFERENCE TO THE PROFILE OUTCOME
P_K1	Student knows the basic utility applications to support management at the administrative and business level of the company	Zarz_KK02_Lic
P_K2	Student has the ability to indicate which IT technologies can be included in the management system	Zarz_KK01_Lic
P_K3	Student demonstrates openness to a systematic approach to the application of IT in management	Zarz_KK02_Lic
P_K4	Can assess the basic activities of information systems supporting information flow for decision-making	Zarz_KK02_Lic

Course content

NUMBER	DESCRIPTION	FORM OF CLASSES	NUMBER OF HOURS
1	IT in management - basics. Systematic approach to computer science. Sources of information for management. Management - Information - IT. Information and IT links. Information and decision centers. Classification of information systems in management. Integration, integrated system	lectures exercises	4 / 7 3 / 7
2	Databases in management. Application of computer science to data processing. Data processing technology. Data elements. Organization of data processing. Database technology. Database Architecture. Client-server processing. Database client interface. Database server. Database structure. SQL database language. Database script. Transactions in the database	lectures exercises	4 / 7 3 / 7
3	Utility applications supporting management. Usable application components. Breakdown of software. Usability of the utility application for the cash register. Handling of cash reports. Interface GUI for cash register application. Data model to handle cash register applications. Functional scope of the Sales subsystem. CRM class system. Functional diagram of invoicing. Functional diagram of material economy handling. Fixed asset subsystem. Employee management application	lectures exercises	4 / 7 3 / 7
4	Computerization of accounting. Principles of computerization of accounting. Integrated company accounting. Record equipment in accounting. Account - chart of accounts, posting in accounts. Economic event accounting procedure. VAT accounting. IT servicing of settlements. Functionality of IT accounting. Functional range of the F-K application. F-K system data model. Accounting and cost clearance	lectures exercises	4 / 7 3 / 7
5	IT and production management. CIM and PPS. MRP / ERP. CIM system components. Handling of production orders. PPS system, PPS logistics. Production control models. Production and an integrated system. Structural and technological developments. Modeling of production data.	lectures exercises	3 / 6 3 / 6

NUMBER	DESCRIPTION	FORM OF CLASSES	NUMBER OF HOURS
6	Fundamentals of office computing. Functional areas of office computing. Company as an office system. Administering business activities. Document circulation, registers, folders and customer service. Data model for document workflow. Electronic document and electronic signature. DMS class system. Workflow and Workgroup.	lectures exercises	4 / 7 3 / 7
7	IT decision support. Data processing and decision support. Computer-aided decision typology. Decision support systems. Decision modeling techniques. Modeling decision languages. Data warehouses. OLAP processing. Data model for decision support system. Business Intelligence. Knowledge processing and expert systems. Modeling of knowledge - semantic networks	lectures exercises	4 / 7 3 / 7
8	The basics of e-business. E-business technologies and their applications. Definition of e-business. E-business conditioning. Analysis of effects in e-business. Structure and cost dynamics. Majewski's formula. Levels of integration in e-business. Organizational growth. Information technology on the Internet. Architecture of e-business IT service.	lectures exercises	3 / 6 3 / 6

Conditions of completion

LECTURES

TYPE OF CREDIT	CREDIT INFLUENCE (IN %)
Exam (for the lecturers only)	100

EXERCISES

TYPE OF CREDIT	CREDIT INFLUENCE (IN %)
Wykonanie zadań lub ćwiczeń podczas zajęć	100

Teaching methods

- multimedia presenttions
- lectures

Reading (compulsory)

- Zenon Biniek. IT MANAGEMENT 2017
- Zenon Biniek. LAB0-LAB6 2017

Reading (additional)

- Lack of literature

Odniesienie efektów przedmiotowych do efektów kierunkowych, treści kształcenia, metod weryfikacji

SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
KNOWLEDGE			
P_W1	Zarz_WG01_Lic Zarz_WG03_Lic Zarz_WG07_Lic	1 8	Exam, assignments
P_W2	Zarz_WG01_Lic Zarz_WG03_Lic Zarz_WG07_Lic	2 3 7	Exam, assignments
P_W3	Zarz_WG01_Lic Zarz_WG10_Lic	2 7	Exam, assignments
P_W4	Zarz_WG03_Lic Zarz_WG07_Lic	3 4 6 8	Exam, assignments
P_W5	Zarz_WG01_Lic Zarz_WG03_Lic	5 6	Exam, assignments
P_W6	Zarz_WG03_Lic Zarz_WG07_Lic		Exam, assignments
SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
SKILLS			
P_U1	Zarz_UW04_Lic		Exam, assignments
P_U2	Zarz_UW04_Lic		Exam, assignments
P_U3	Zarz_UW02_Lic		Exam, assignments
P_U4	Zarz_UW01_Lic		Exam, assignments
P_U5	Zarz_UW02_Lic		Exam, assignments
SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
SOCIAL COMPETENCES			
P_K1	Zarz_KK02_Lic		Exam, assignments
P_K2	Zarz_KK01_Lic		Exam, assignments
P_K3	Zarz_KK02_Lic		Exam, assignments

SYMBOL	REFERENCE OF A GIVEN OUTCOME TO THE PROFILE OUTCOME	REFERENCE OF A GIVEN OUTCOME TO THE COURSE CONTENT	REFERENCE OF A GIVEN OUTCOME TO THE VERIFICATION METHODS
SOCIAL COMPETENCES			
P_K4	Zarz_KK02_Lic		Exam, assignments