

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Designing Management Information Systems

Course

Field of study Year/Semester

Engineering management 1/1

Area of study (specialization) Profile of study

Managing enterprise of the future general academic Level of study Course offered in

Second-cycle studies Polish

Form of study Requirements
part-time compulsory

Number of hours

Lecture Laboratory classes Other (e.g. online)

10

Tutorials Projects/seminars

12

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng., Joanna Kałkowska, University

Professor

Mail to:joanna.kalkowska@put.poznan.pl

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

Ph.D., Eng., Aleksander Jurga

Mail to:aleksander.jurga@put.poznan.pl

Faculty of Engineering Management

ul. J. Rychlewskiego 2, 60-965 Poznań

Prerequisites

The student has knowledge of the foundations of management, organization and the basics of computer



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

science. In addition, he can integrate knowledge acquired in other subjects as well as interact and work in a team.

Course objective

The aim of the course is to present the important role of information management and to provide students with knowledge in the design and modeling of information and decision making processes in an enterprise

Course-related learning outcomes

Knowledge

- 1. Student knows the methods and tools for data collection, processing and selection and distribution of information in the area of information processes in management [P7S WG 02]
- 2. Student has knowledge of methods and tools for modeling information and decision-making processes [P7S_WG_05]
- 3. Student has knowledge of the conditions of organizational structures and knows structure-building mechanisms and methods of modeling information and decision-making processes [P7S WG 06]
- 4. Student has knowledge about the connections occurring in network and virtual organizations (concerns, holdings, clusters, etc.) and about organizational dependencies between organizational units of an enterprise [P7S_WG_06]

Skills

- 1. Student is able to use theoretical knowledge and obtain data to analyze information processes in management [P7S_UW_02]
- 2. Student is able to forecast and model complex social processes including phenomena from various areas of social life (cultural, political, legal, economic) using advanced methods and tools for modeling information and decision-making processes [P7S UW 03]
- 3. Student has the ability to use and integrate acquired knowledge in various areas and forms, extended by a critical analysis of effectiveness and its usefulness for modeling information and decision-making processes [P7S_UW_04]
- 4. Student is able to indicate the reasons and has the ability to independently propose solutions to a specific management problem and its verification using tools for modeling information and decision-making processes [P7S_UW_07]

Social competences

- 1. Student is aware of the interdisciplinary knowledge and skills needed to solve complex organization problems and the need to create interdisciplinary teams [P7S_KK_01]
- 2. Student is able to see the cause-and-effect relationships in achieving the set goals and rank the importance of alternative or competitive tasks [P7S KK 02]



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge acquired during the lecture is verified by a test carried out after the last lecture. The tests consist of 20 closed questions. Assessment threshold: 50% of the points (satisfactory).

Knowledge acquired under the project is verified on the basis of solving individual tasks covered by subsequent project stages. The student receives points for each task. Assessment threshold: 50% of the points (satisfactory).

Programme content

Lecture: Basic concepts (design, management, system). The essence of the management system. Management system in static and dynamic terms. Reengineering. Data and information (information, its functions and important features). The concept and structure of MIS (resource structure, functions of MIS implemented in information processes, goals of implementing MIS in the enterprise, requirements and stages of creating MIS). MIS a IT system (information gap). IT systems supporting SI. Modeling of information and decision-making processes in an enterprise (the essence and scope of modeling). Standards (notations) and modeling tools. Designing management information systems (ARIS Toolset and / or Adonis) in EPC and / or BPMN notation.

Design: Designing and modeling management information systems using the ARIS Toolset and / or Adonis.

Teaching methods

Information lecture in the form of a multimedia presentation, with elements of a conversational lecture. Project: problem and activating methods: solving case study using the ARIS Toolset and / or Adonis.

Bibliography

Basic

- 1. Adamczyk M., Jurga A., Kałkowska J, Pawłowski E., Włodarkiewicz-Klimek H., Projektowanie systemów informacyjnych zarządzania, Wydawnictwo Politechniki Poznańskiej, Poznań, 2010
- 2. Grudzewski W.M., Metody projektowania systemów zarządzania, Difin, Warszawa 2004
- 3. Klonowski Z., Systemy informatyczne zarządzania przedsiębiorstwem, Modele rozwoju i właściwości funkcjonalne, Wydawnictwo Politechniki Wrocławskiej, Wrocław, 2004
- 4. Gabryelczyk R., ARIS w modelowaniu procesów biznesu, Difin, Warszawa, 2006

Additional

1. Jurga A., ARIS platform jako narzędzie modelowania procesów biznesowych. Notacja EPC a BPMN, Zeszyty Naukowe nr 702. Ekonomiczne problemy usług nr 87. Gospodarka elektroniczna. Wyzwania rozwojowe. Tom 1, Wydawnictwo Naukowe Uniwersytetu Szczecińskiego, Szczecin 2012



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

- 2. Jurga A., Wybrane aspekty modelowania procesów biznesowych, Zeszyty Naukowe nr 762. Ekonomiczne Problemy Usług nr 104. Europejska przestrzeń komunikacji elektronicznej. T. 1, Wydawnictwo Naukowe Uniwersytetu Szczecińskiego, Szczecin 2013, 207-217
- 3. Drejewicz Sz., Zrozumieć BPMN. Modelowanie procesów biznesowych, Wyd. Helion, Gliwice 2012
- 4. Jurga A., Technologia teleinformatyczna w organizacji wirtualnej, Wydawnictwo Politechniki Poznańskiej, Poznań 2010

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for projects,	50	2,0
preparation for tests) 1		

delete of add other detivities as appropriate

¹ delete or add other activities as appropriate