COURSE DESCRIPTION CARD - SYLLABUS

Course name
IT Systems Transition

Course

Field of study
Engineering Management
Area of study (specialization)

Level of study
First-cycle studies
Form of study
part-time

Year/Semester
3/6
Profile of study
general academic
Course offered in
Polish
Requirements
elective

Number of hours

Lecture
8
Laboratory classes

Other (e.g. online)

Tutorials
10
Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:
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Responsible for the course/lecturer:
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Prerequisites

Knowledge of the basics of management, organization science and the basics of computer science and information systems, especially database systems.
Group work, interest in IT techniques

Course objective

Understand the role of IT systems in an enterprise. To familiarize students with the stages of implementing IT systems and selected methodologies.

Course-related learning outcomes

Knowledge

Knows methods and tools for data collection, processing and selection and distribution of information in the process of implementing IT systems [P6S_WG_08]

Has basic knowledge of information systems life cycle [P6S_WG_13]

Has basic knowledge of the life cycle of industrial products in the context of implementing IT systems [P6S_WG_15]

Skills

Is able to plan and conduct experiments, including computer measurements and simulations, interpret obtained results and draw conclusions in the process of implementing IT systems [P6S_UW_09]

Can - when implementing IT systems - see their system, socio-technical, organizational, economic and non-technical aspects [P6S_UW_11]

Is able to make a preliminary economic analysis of IT implementations [P6S_UW_12]

Social competences

Is aware that the implementation of IT systems requires a systematic approach taking into account technical, economic, marketing, legal, organizational and financial issues [P6S_KO_02]

Is aware of the importance and understands the non-technical aspects and effects of the implementation of IT systems, including its impact on the environment, and the associated responsibility for the decisions taken [P6S_KR_01]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The lecture grade is based on the percentage of the colloquium. Questions and tasks checking understanding of the issues. Passing threshold - 50%.
Exercise grade is the average of individual tasks performed during classes. The assessment takes into account the correctness and completeness of the results obtained.

Programme content

Basic concepts related to the design and implementation of information systems. Meta stages of IT implementation. Barriers and technical and organizational difficulties of implementation. Implementation stages according to APICS. IT implementation strategies. IT system planning process. Model of the design process. Characteristics of selected implementation methods. A detailed discussion of the Prince2 methodology. Practical use of knowledge related to the design and implementation of information systems. Planning the IT system implementation process.

Teaching methods

Lectures: informative lecture, problem lecture, seminar lecture, case method.
Laboratories: laboratory (experiment) method, workshop method.

Bibliography

Basic

Wachnik B.,Wdrażanie systemów informatycznych wspomagających zarządzanie, Polskie Wydawnictwo Ekonomiczne, Warszawa, 2016.

Banaszak Z., Kłos S., Mleczko J. Zintegrowane systemy zarządzania, Polskie Wydawnictwo Ekonomiczne, Warszawa, 2016.

Chomuszko M., System ERP dobre praktyki wdrożeń, PWN, Warszawa, 2016.

Klimek M., Toruński J. Zintegrowane informatyczne systemy zarządzania w przedsiębiorstwach produkcyjnych Integrated information management systems in manufacturing companies Zeszyty Naukowe Uniwersytetu Przyrodniczo- Humanistycznego w Siedlcach, 2013, Nr 96, s. 39-47.

Lech P., Zintegrowane systemy zarządzania ERP/ERP II. Wykorzystanie w biznesie, wdrażanie Difin, Warszawa, 2003.

Szyjewski Z., Metodyki zarządzania projektami informatycznymi. Placet, Warszawa, 2004.

Additional

Ejdys J., Kobylińska U., Lulewicz-Sas A. (2012), Zintegrowane systemy zarządzania jakością, środowiskiem i bezpieczeństwem pracy Oficyna Wydawnicza Politechniki Białostockiej, Białystok

Klonowski Z., Systemy informatyczne zarządzania przedsiębiorstwem. Modele rozwoju i właściwości funkcjonalne. PW, Wrocław, 2004.

Sommerville I., Inżynieria Oprogramowania, Wyd. WNT 2006.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	20	1,0
Student's own work (literature studies, preparation for tutorials, preparation for tests, project preparation) [1]	30	1,0

1 delete or add other activities as appropriate