GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ENTERPRISE INFORMATION SYSTEMS, PG_00040528		
Field of study	Engineering Management		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2021/2022
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research in the field of study
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Radosław Drozd	
	Teachers	dr inż. Radosław Drozd	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	16.0	0.0	16.0	0.0	0.0	32

E-learning hours included: 0.0

Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22261
Adresy na platformie eNauczanie:
SYSTEMY INFORMATYCZNE PRZEDSIĘBIORSTW - ZI - lato 2022 - Moodle ID: 22261
https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22261

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	32	8.0	85.0	125

Subject objectives

The aim of the course is introduction to the modern practice of the use of information systems by enterprisesfor achieving strategic goals such as: operational excellence, development of new products and services,improved decision-making, or competitive advantage. Another goal is to answer the question of how the useof information systems and technologies transforms a traditional enterprise into a modern digital enterprise,and what is the impact of such transformation on the socio-economic environment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U09] obtains data for analysis and interpretation of results using information technology	Developing the ability to work in a team in the design aspects of IT systems.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
[K6_U12] can design the process of exploitation of production and IT infrastructure with the use of appropriate methods, techniques and tools	The student classifies and he circumscribes the medium and The student classifies computer technologies applied to the building of computer systems and software project management	[SU2] Assessment of ability to analyse information
[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management	Implementation of the project and presenting it in the form of a presentation of the completed task in the SAP program.	[SW3] Assessment of knowledge contained in written work and projects

Subject contents	THE LECTURE: 1. Introduction (the strategies of the computerization and computer systems) 2. Modelling business processes (applied tools and methods) 3. Computer formations of enterprises (MRP, ERP, PLM, SCM, the profile of formations, the examples of uses) 4. Computer formations helping reports with customers CRM (the profile of systems, the possibility of integration with systems ERP, the examples of uses) 5. Bank computer systems, computer systems for the needs of the state administration and intelligent systems 6. Environments and computer technologies applied to the building of computer systems (. THE NET, J2EE, Open Source, CASE) 7. The management computer undertaking (projects aggregate, the methods of the management PMM, RUP, Agile, PRINCE2, good practices PMBOK) 8. The measure of the efficiency of computer undertakings (the definition of efficiency, quantitative methods, ilościowo- qualitative and qualitative) THE LABORATORY: Company description i products in the categories of the ERP system. Purchase and sale in the ERP system. MRP planning in the ERP system.	
Prerequisites and co-requisites	The basis of the computer science	
Assessment methods and criteria		

Subject passing criteria	Passing threshold	Percentage of the final grade
Project	60.0%	50.0%
Exam	60.0%	50.0%

Recommended reading	Basic literature	1.Rymarczyk T.:Współczesne trendy technologiczne w informatycznych systemach złożonych. Monografie WSEI, Lublin 2019. 2.Kisielnicki J.: Systemy informatyczne zarządzania. Wydawnictwo Placet, Warszawa 2013. 3. Gawin B.: Systemy informatyczne w zarządzaniu procesami Workflow. Wydawnictwo Naukowe PWN, Warszawa 2015. 4. Szyjewski Z.: Metodyki zarządzania projektami informatycznymi Wydawnictwo Placet, Warszawa 2013. 5. Monnox A., J2EE. Podstawy programowania aplikacji korporacyjnych , Wydawnictwo: Helion, Listopad 2005 6. Orłowski C. Model rozmyty zarządzania przedsięwzięciami informatycznymi, Politechnika Gdańska, 2004 7. Orłowski C., Projektowanie hybrydowych systemów informatycznych do wspomagania zarządzania, Gdańsk 1999 8. Phillips Joseph, Zarządzanie projektami IT, Wydawnictwo: One Press, 2004 9. Platt D., Podstawy Microsoft NET, Wydawnictwo: Read Me 2005 10. Sommerville I., Inżynieria oprogramowania, wydawnictwo: Wydawnictwa Naukowo-Techniczne, 2003 11. Szejko S.: (red.) Metody wytwarzania oprogramowania. Warszawa: Mikom 2002 12. Szyjewski Z.: Zarządzanie projektami informatycznymi. Metodyka tworzenia systemów informatycznych. Warszawa, Agencja Placet 2001
	Supplementary literature	Kenneth C. Laudon and Jane P. Laudon. Management information systems: Managing the digital firm. 17th edition. Pearson Education. 2022 Erik Brynjolfsson, Andrew McAfee. The Second Machine Age - Work, Progress, and Prosperity in a Time of Brilliant Technologies. Norton. 2016
	eResources addresses	SYSTEMY INFORMATYCZNE PRZEDSIĘBIORSTW - ZI - lato 2022 - Moodle ID: 22261 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22261

Example issues/ example questions/ tasks being completed	Description of the company and products in terms of the ERP system Implementation of purchases and sales in the ERP system MRP planning Simulation of manufacturing processes Project of the implementation of an integrated process of customer order fulfillment in a selected production company
Work placement	Not applicable