

Subject card

| Subject name and code | ENTERPRISE INFORMATION SYSTEMS, PG_00040576 | | | | | | | | |
|---|---|--|---|---|---------------------------------------|--|---|--------------------------|--|
| 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 | Full-time studies | | Mode of delivery | | | blended-learning | | | |
| Year of study | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 4 | | ECTS credits | | | 5.0 | 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 Tomasz Janowski | | | | | | |
| | Teachers | | dr Tomasz Janowski | | | | | | |
| | | | dr inż. Radosław Drozd | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| | Number of study hours | 30.0 | 0.0 | 30.0 | 0.0 | | 0.0 | 60 | |
| | E-learning hours included: 30.0 | | | | | | | | |
| | Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17374 Adresy na platformie eNauczanie: | | | | | | | | |
| 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 | 60 | | 8.0 | | 57.0 | | 125 | |
| Subject objectives | The aim of the coursenterprisesfor achieves services, improved dehow the useof informenterprise, and what in | ing strategic go ecision-making, ation systems | oals such as: o or competitive and technologi | perational exce e advantage. Ar es transforms a | ellence, o nother go a traditio | develop bal is to nal ent | ment of new answer the derprise into a | products and question of | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|-------------------|---|---|--|
| | [K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management | A student is able to recognize the management, organizational and technical aspects of the adoption of information systems in an enterprise. The student is able to plan the activities needed to build and manage IT systems in the company. | [SW1] Assessment of factual knowledge |
| | [K6_U09] obtains data for analysis and interpretation of results using information technology | The student is able to classify and describe information technology environments used to build information systems, and knows the concepts and practice of IT project management. | [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 | A student is able to determine what technologies and information systems are needed in an enterprise to achieve its goals including increasing productivity. Student is able to point to innovative applications of information systems for the realization of the company objectives. | [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment |

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| Outlie at a set a | LECTURES | | | | | |
|--------------------|--|---|-------------------------------|--|--|--|
| Subject contents | LECTURES | | | | | |
| | LECTURE 4. INTRODUCTION | | | | | |
| | LECTURE 1 - INTRODUCTION1. Introductory case | ı | | | | |
| | 2. How does digitalization transfor | How does digitalization transform modern enterprises? | | | | |
| | 3. What are the strategic goals of enterprise information systems? 4. What is an information system, what are its functions and components? 5. How does the information system realize value for the enterprise? | | | | | |
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| | 6. What disciplines study information systems and what do each of them bring? | | | | | |
| | What are the main messages of this lecture? LECTURE 2 - TYPOLOGY Introductory case How are business processes related to information systems? How are information systems serving management groups in an enterprise? How do information systems join and improve the effectiveness of an enterprise? How do information systems support cooperation and social business? What is the role of information systems function in an enterprise? What are the main messages of this lecture? LECTURE 3 - ORGANIZATION Introductory case How does organization influence the creation and use of information systems? How do information systems affect the operation of the organization? What strategies help to compete relying on information systems? | | | | | |
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| | 5. How do information systems he6. What are the challenges facing | | | | | |
| | 7. What are the main messages of this lecture? • LECTURE 4 - SOCIETY 1. Introductory case 2. What are the ethical, social and political problems related to information systems? | | | | | |
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| | What rules of conduct can be used to guide ethical decisions? What challenges does contemporary technology create for individual privacy? What challenges does contemporary technology create for intellectual property? How do information systems affect individual rights and obligations? What are the main messages of this lecture? LECTURE 5 - ECONOMY Introductory case What are the main characteristics of digital commerce? What are the digital commerce business and revenue models? How does digital commerce transform marketing and transactions? What is the role and applications of mobile commerce in business? | | | | | |
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| | 6. What problems should be solved when building digital commerce?7. What are the main messages of this lecture? | | | | | |
| | LABORATORY | | | | | |
| | Laboratory 1 Fundamentals of the SAP system, Global Bike company in SAP Laboratory 2 Sales and distribution process in SAP Laboratory 3 Materials management process in SAP Laboratory 4 Production planning and implementation process in SAP Laboratory 5 Accounting and financial process in SAP Laboratory 6 Control process in SAP | | | | | |
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| | 7. Laboratory 7 Human resources management process in SAP 8. Laboratory 8 Colloquium | | | | | |
| | 2. Editoratory o conoquium | | | | | |
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| Prerequisites | Foundations of information technology | | | | | |
| and co-requisites | Information technology in mana | | | | | |
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| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| and criteria | Project | 0.0% | 20.0% | | | |
| | Activity | 0.0% | 10.0% | | | |
| | Exam | 60.0% | 50.0% | | | |
| | Project | 60.0% | 50.0% | | | |

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| Recommended reading | Basic literature | Rymarczyk T.:Współczesne trendy technologiczne w informatycznych systemach złożonych. Monografie WSEI, Lublin 2019. | |
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| | | | |
| | | 2.Kisielnicki J.: Systemy informatyczne zarządzania. Wydawnictwo Placet, Warszawa 2013. | |
| | | Gawin B.: Systemy informatyczne w zarządzaniu procesami Workflow. Wydawnictwo Naukowe PWN, Warszawa 2015. | |
| | | 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 | | |
| 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 | | |
| action boiling completed | | | |
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| | 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 | | |

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