Course description form (syllabus form) – for 1st and 2nd cycle studies

**A. General data**

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| **Name of the field** | **Content**  |
| Course title |  Management Information Systems |
| Organizational unit: |  Faculty of Management |
| Organizational unit where the course is offered: |  Faculty of Management |
| Course ID |   |
| Erasmus code / ISCED |  04200 Information Technology |
| Course groups |   |
| Period when the course is offered  |  Summer semester 2023/24 |
| Short description | Systems definition, the role and place of MIS in organization. Three ways of management system development: logic architecture complication, functional integration, the extent and form networks. E-commerce state and development. E-banking and e-payments foundations. The chosen methods of IT assessment – websites evaluation. Introduction of the main concepts of effective use of IT in organization. |
| Type of course: |  Lecture |
| Full description | 1. The role and prospects for the development of management information systems (basic concepts in the field of management information technologies, types of information systems and their application in the enterprise),
2. Characteristics of management information technologies according to the development of logical architecture:

2.1 Transaction Processing Systems,* 1. Management Information Systems
	2. Decision Support Systems, Management Information Systems and Management Support Systems,
	3. . Expert Systems, Artificial Intelligence Systems, BI Systems,
1. Characteristics of information technologies by the degree and scope of integration - enterprise business systems (IC, MRP, MRP II; ERP, ERP II - CRM, SCM, eERP
2. Characteristics of information technologies according to network development: private networks, commercial networks, Internet network:

4.1. The place and role of the network in economic development4.2. e-Business - definitions, typology, tools and development4.3. e-Banking - definitions, typology, tools and development, electronic payment systems,1. IT infrastructure and new technologies (evolution of IT infrastructure, cloud computing era, main factors of development, virtualization, open source software)
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| Prerequisites | Formal  |  No |
| Initial  |  No |
| Learning outcomes |  Student after completing the course:• Knows and understands terminology and basic theoretical models in the field of databases and IT management systems (K\_W01).• Knows and understands at an advanced level the principles, procedures and practices relating to the activities of various types of organizations using IT systems in management (K\_W02).• Knows and understands the operation of selected IT solutions that support enterprise management (K\_W05).• Understands the principles of industrial property and copyright protection (K\_W05).• Is able to use the theory of the discipline of management and quality science and knowledge in the field of information technologies to recognize, diagnose and solve problems related to key functions in the organization and integrate them within the organization's strategy, using the appropriate selection of theoretical sources and practical solutions and adapting existing methods ( K\_U01).• Is able to prepare a database project independently and in a team (K\_U03).• Has the ability to self-educate and improve acquired qualifications (K\_U06).In terms of attitudes:• Is ready to critically evaluate IT tools supporting management in the enterprise (K\_K01) |
| ECTS credit allocation (and other scores) | 2 |
| Assessment methods and assessment criteria | The assessment is carried out according to the rules specified by the laboratory instructors during the first classes, and the assessment is carried out according to the scale below.The lecture ends with an exam in the form of a single-choice test; assessment according to the standard assessment method at the University of Warsaw. Separately during the lecture and in the laboratory you will be able to obtain the number of %% determining the final grade:0-50% – rating 251-60% – rating 361-70% – rating 3.571-80% – rating 481-90% – rating 4.591-100% – rating 5 |
| Examination  | Assessment/Examination |
| Type of class | Fundamental |
| Sposób realizacji przedmiotu  | Stationary: in the classroom |
| Language  |  English |
| Bibliography | **Lecture****Basic literature:*** Turban E., Pollard C., Wood G.: ***Information Technology for Management: Driving Digital Transformation to Increase Local and Global Performance, Growth and Sustainability*,**12th Edition, John Wiley &Sons, NY, 2021, ISBN-10 ‏ : ‎ 1119702909; ISBN-13 ‏ : ‎ 978-1119702900,

**Additional literature:*** Laudon K. C., , J.P Laudon J. P., ***Managment Information Systems***, Prentice-Hall, NY, 2021.
* Chmielarz W.: ***Information Technology Project Management***, Wydawnictwo Naukowe, WZ UW, Warszawa, 2015.
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| Internship as part of the course  |   |
| Coordinators |  Prof. dr hab. W. Chmielarz |
| Group instructors |  Prof. dr hab. W. Chmielarz |
| Notes  |   |

**B. Detailed data**

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| **Name of the field** | **Content**  |
| Group instructors:  |  Witold Chmielarz |
| Title:  |  Prof. |
| Type of class: lacture |  Lecture |
| Learning outcomes defined for didactic method used during the course |  Student after completing the course:• Knows and understands terminology and basic theoretical models in the field of databases and IT management systems (K\_W01).• Knows and understands at an advanced level the principles, procedures and practices relating to the activities of various types of organizations using IT systems in management (K\_W02).• Knows and understands the operation of selected IT solutions that support enterprise management (K\_W05).• Understands the principles of industrial property and copyright protection (K\_W05).• Is able to use the theory of the discipline of management and quality science and knowledge in the field of information technologies to recognize, diagnose and solve problems related to key functions in the organization and integrate them within the organization's strategy, using the appropriate selection of theoretical sources and practical solutions and adapting existing methods ( K\_U01).• Is able to prepare a database project independently and in a team (K\_U03).• Has the ability to self-educate and improve acquired qualifications (K\_U06).• Is ready to critically evaluate IT tools supporting management in the enterprise (K\_K01) |
| Assessment methods and assessment criteria for didactic method used during the course |  The assessment is carried out according to the rules specified by the laboratory instructors during the first classes, and the assessment is carried out according to the scale below.The lecture ends with an exam in the form of a single-choice test; assessment according to the standard assessment method at the University of Warsaw. Separately during the lecture and in the laboratory you will be able to obtain the number of %% determining the final grade:0-50% – rating 251-60% – rating 361-70% – rating 3.571-80% – rating 481-90% – rating 4.591-100% – rating 5 |
| Examination for didactic method used during the course |  Exam, test |
| Range of content | 1. The role and prospects for the development of management information systems (basic concepts in the field of management information technologies, types of information systems and their application in the enterprise),
2. Characteristics of management information technologies according to the development of logical architecture:
	1. Transaction Processing Systems,
	2. Management Information Systems
	3. Decision Support Systems, Management Information Systems and Management Support Systems,
	4. Expert Systems, Artificial Intelligence Systems, BI Systems,
3. Characteristics of information technologies by the degree and scope of integration - enterprise business systems (IC, MRP, MRP II; ERP, ERP II - CRM, SCM, eERP
4. Characteristics of information technologies according to network development: private networks, commercial networks, Internet network:

4.1. The place and role of the network in economic development4.2. e-Business - definitions, typology, tools and development4.3. e-Banking - definitions, typology, tools and development, electronic payment systems,1. IT infrastructure and new technologies (evolution of IT infrastructure, cloud computing era, main factors of development, virtualization, open source software)
 |
| Didactic methods |  Lecture |
| Bibliography |  The assessment is carried out according to the rules specified by the laboratory instructors during the first classes, and the assessment is carried out according to the scale below.The lecture ends with an exam in the form of a single-choice test; assessment according to the standard assessment method at the University of Warsaw. Separately during the lecture and in the laboratory you will be able to obtain the number of %% determining the final grade:0-50% – rating 251-60% – rating 361-70% – rating 3.571-80% – rating 481-90% – rating 4.591-100% – rating 5 |
| Group limit  |   |
| Time span |   |
| Location |   |