WYŻSZA SZKOŁA EKOLOGII I ZARZĄDZANIA W WARSZAWIE UNIVERSITY OF ECOLOGY AND MANAGEMENT IN WARSAW

THE LIST OF COURSES 2024/2025

winter semester: October 2024- February 2025

L - LECTURE; P - PROJECT CLASSES (design classes); A - AUDITORY CLASSES; LAB - LABORATORY CLASSES; M - MASTER STUDIES

| No | NAME OF THE COURSE | ECTS | Description |
|-------|----------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 002 | Logic and Set Theory | 6 | Basic concepts of logic and set theory necessary for further computer science education. Propositional calculus, elements of functional calculus, elements of set theory, ordered sets, induction and recursion, logic and set theory antinomies, elements of metalogic. |
| 1003 | Mathematics | 6 | Basic concepts of algebra and mathematical analysis, developing the ability to use the mathematical apparatus. |
| 1004 | Microeconomics | 2 | Categories and laws of the modern market economy and the functioning of the basic economic actors, i.e. enterprises, households and land management entities. |
| 1 005 | Basics of Computer Programming | 7 | Basics of structured programming. Basics of computer operation, methods of representing numerical and textual data in computer memory. Concept of problem and algorithm and methods of algorithm formulation, basic programming constructs. |
| 1 006 | Basics of Management | 2 | Principles of organisational and management theory, developing the ability to analyse and synthesise organisational problems, developing teamwork skills in solving management problems. |
| 1007 | Introduction to Computer Science | 5 | Introducing the world of modern computer science, its concepts and topics. Numeral systems. Ways of representing data on the example of signs. Boolean algebra. Turing machine and elements of computer architecture. Elements of formal languages, etc. |
| 1014 | Algorithms and Data Structure | 5 | Algorithm design and analysis. Introducing basic algorithms and data structures. |
| 1015 | Computer Architecture | 5 | Gaining knowledge and skills necessary to understand and effectively use the features of computer systems in terms of hardware and software. |
| 1016 | Physics I | 3 | Qualitative presentation of the nature of physical phenomena, methods of their study and examples of their use. |
| 1017 | Event-Driven Programming | 5 | Practical introduction to the event-driven programming in the context of creating interactive and multithreading applications in Java. |
| 1018 | Social Aspects of the Internet | 2 | Introducing social, cultural and psychological aspects of the Internet as a new technology organising contemporary everyday life. |
| 1019 | Statistics | 4 | Introducing the methods of statistical analysis. Discussing the statistical description of the phenomena structure, their dynamics and interdependencies allowing the interpretation and evaluation of the course of phenomena encountered in practice |
| 1 020 | Signal and Information Theory | 4 | Introducing the classification of signals, their mathematical models, spectrum analysis of analog signals, analog-to-digital and digital-to-analog conversion and the basics of digital filtering. |
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| OS1 | ENGLISH LANGUAGE COURSE | 2 | Mastering the English language at B2 proficiency level of the Council of Europe's Common European Framework of Reference for Languages (upon completion of the entire course). |
| OS3 | POLISH LANGUAGE COURSE | 2 | Mastering the Polish language at B2 proficiency level of the Council of Europe's Common European Framework of Reference for Languages (upon completion of the entire course). |

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THE LIST OF COURSES 2024/2025

winter semester: mid-February 2025 - June 2025

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| No | NAME OF THE COURSE | ECTS | Description |
|-------|-------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I 021 | Databases | 4 | Introduction to advanced issues in relational databases. Concepts of index, transaction, nested query, query optimisation, stored procedure, function, view, trigger. Administration of databases including ensuring adequate database performance and security in data access. |
| I 016 | Physics II | 2 | Qualitative presentation of the nature of physical phenomena, methods of their study and examples of their use. |
| I 022 | Principles of Web Development | 4 | Gaining practical skills in creating HTML web pages in XHTML, HTML 4.01 or HTML5 standard using Cascading Style Sheets (CSS) to format a website. |
| I 023 | Economic Law | 2 | Concept of law and the interpretation of law, as well as selected legal branches and institutions illustrated by the examples of practical use and application of individual institutions in the field of civil and commercial law, as well as illustrated by rulings of common and administrative courts (WSA and NSA). |
| I 024 | Computer Networks I | 4 | Providing basic knowledge on the structure, operation and use of computer networks. |
| I 025 | Operating Systems | 4 | Basics of modern operating systems operation and design, developing the ability to use system functions to correctly implement simple multiprocess/multithreaded applications using standard input/output channels and file access. |
| I 026 | IT Project Management | 3 | Principles of IT project management, planning and scheduling of work in an IT project, basics of budget preparation, risk management in a project. Introducing project management software. |
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| OS1 | ENGLISH COURSE | 2 | Mastering the English language at B2 proficiency level of the Council of Europe's Common European Framework of Reference for Languages (upon completion of the entire course). |
| OS3 | POLISH COURSE | 2 | Mastering the Polish language at B2 proficiency level of the Council of Europe's Common European Framework of Reference for Languages (upon completion of the entire course). |
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