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| Course Title: | Python Programming |
| Institute/Division: | Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering |
| Course code: | E-PP |
| Erasmus subject code: | 0610 Information and Communication Technologies (ICTs) |
| Number of contact hours: | 45 |
| Course duration: | 1 semester (Fall/Winter) |
| ECTS credits: | 6 |
| Course description: | <p>The course aims to familiarize students with programming in Python. The scope of the course includes:</p> <ul style="list-style-type: none">• creating an environment (tool base) for programming,• the basics of the language with particular emphasis on differences and similarities to other programming languages,• object-oriented programming in Python,• integration with databases,• use of AI to support programming in Python with critical analysis of available solutions, <p>After completing the course, students should demonstrate knowledge of the language at a level that allows for independent programming specialization in the selected field.</p> |
| Course type: | Lectures (20h), Computer laboratory (20h), Project (5h) |
| Literature: | Luciano Ramalho, <i>Fluent Python: Clear, Concise, and Effective Programming</i> , O'Reilly Media 2022 Eric Matthes, <i>Python Crash Course, 3rd Edition: A Hands-On, Project-Based Introduction to Programming</i> , No Starch Press 2023 |
| Assessment method: | Laboratory exercises and project |
| Prerequisites: | Any programming language |
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