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| Module title | | Abbreviation |
| Programming for Business and Economics | | 12-PFM-242-m01 |
| Module coordinator | | Module offered by |
| Holder of the Chair of Business Analytics | | Faculty of Business Management and Economics |
| ECTS | Method of grading | Only after succ. compl. of module(s) |
| 5 | numerical grade | -- |
| Duration | Module level | Other prerequisites |
| 1 semester | undergraduate | -- |
| Contents | | |
| <p>In the context of digitization, dealing with program code is regularly of great importance for economists, e.g. in automated data analysis or computer-aided modeling of value creation processes. Likewise, in digital transformation projects, it is of great importance to understand how a programmer thinks and implements the tasks assigned to him. This facilitates communication as well as the actual development, adaptation and debugging of the project.</p> <ul style="list-style-type: none"> • Introduction to the basics of algorithms • Programmatic constructs and structures • Data structures • Concepts of object-oriented programming • Practical examples and exercises | | |
| Intended learning outcomes | | |
| <p>The lecture teaches the basics of the programmer. At the end of the course, the participants should be able to understand simple Python programs and are able to independently implement simple small programming projects in practice with Python.</p> | | |
| Courses (type, number of weekly contact hours, language — if other than German) | | |
| V (2) + Ü (2) Module taught in: German and/or English | | |
| Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) | | |
| <p>a) written examination (approx. 60 minutes) or b) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or c) portfolio (approx. 20 hours) Language of assessment: German and/or English creditable for bonus</p> | | |
| Allocation of places | | |
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| Additional information | | |
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| Workload | | |
| 150 h | | |
| Teaching cycle | | |
| -- | | |
| Referred to in LPO I (examination regulations for teaching-degree programmes) | | |
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| Module appears in | | |
| <p>Bachelor' degree (1 major) Economathematics (2024) Bachelor' degree (1 major) Business Management and Economics (2024) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2024)</p> | | |

