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| Module title | | Abbreviation |
| Selected Topics in Optimization | | 10-M=VOPTin-152-m01 |
| Module coordinator | | Module offered by |
| Dean of Studies Mathematik (Mathematics) | | Institute of Mathematics |
| ECTS | Method of grading | Only after succ. compl. of module(s) |
| 10 | numerical grade | -- |
| Duration | Module level | Other prerequisites |
| 1 semester | graduate | -- |
| Contents | | |
| Selected topics in optimization, e. g. inner point methods, semidefinite programs, non-smooth optimization, game theory, optimization with differential equations. | | |
| Intended learning outcomes | | |
| The student is acquainted with advanced methods in continuous optimization. He gains the ability to work on contemporary research questions in continuous optimization. | | |
| Courses (type, number of weekly contact hours, language — if other than German) | | |
| V (4) + Ü (2) Module taught in: 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) | | |
| a) written examination (approx. 90 to 120 minutes, usually chosen) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Assessment offered: In the semester in which the course is offered and in the subsequent semester Language of assessment: English creditable for bonus | | |
| Allocation of places | | |
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| Additional information | | |
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| Workload | | |
| 300 h | | |
| Teaching cycle | | |
| -- | | |
| Referred to in LPO I (examination regulations for teaching-degree programmes) | | |
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| Module appears in | | |
| Master's degree (1 major) Mathematics International (2015) Master's degree (1 major) Mathematics International (2021) Master's degree (1 major) Mathematics International (2022) | | |