

| Module title                                                                                                                                                                                                                                                                             |                   | Abbreviation                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|
| Mathematical Data Science and Machine Learning                                                                                                                                                                                                                                           |                   | 10-M=AMML-252-m01                    |
| Module coordinator                                                                                                                                                                                                                                                                       |                   | Module offered by                    |
| --                                                                                                                                                                                                                                                                                       |                   | Institute of Mathematics             |
| ECTS                                                                                                                                                                                                                                                                                     | Method of grading | Only after succ. compl. of module(s) |
| 10                                                                                                                                                                                                                                                                                       | numerical grade   | --                                   |
| Duration                                                                                                                                                                                                                                                                                 | Module level      | Other prerequisites                  |
| 1 semester                                                                                                                                                                                                                                                                               | --                | --                                   |
| <b>Contents</b>                                                                                                                                                                                                                                                                          |                   |                                      |
| --                                                                                                                                                                                                                                                                                       |                   |                                      |
| <b>Intended learning outcomes</b>                                                                                                                                                                                                                                                        |                   |                                      |
| --                                                                                                                                                                                                                                                                                       |                   |                                      |
| <b>Courses</b> (type, number of weekly contact hours, language — if other than German)                                                                                                                                                                                                   |                   |                                      |
| V (4) + Ü (2)<br>Module taught in: German and/or English                                                                                                                                                                                                                                 |                   |                                      |
| <b>Method of assessment</b> (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<br>b) oral examination of one candidate each (approx. 20 minutes) or<br>c) oral examination in groups (groups of 2, 15 minutes per candidate)<br>Language of assessment: German or English<br>creditable for bonus |                   |                                      |
| <b>Allocation of places</b>                                                                                                                                                                                                                                                              |                   |                                      |
| --                                                                                                                                                                                                                                                                                       |                   |                                      |
| <b>Additional information</b>                                                                                                                                                                                                                                                            |                   |                                      |
| --                                                                                                                                                                                                                                                                                       |                   |                                      |
| <b>Workload</b>                                                                                                                                                                                                                                                                          |                   |                                      |
| 300 h                                                                                                                                                                                                                                                                                    |                   |                                      |
| <b>Teaching cycle</b>                                                                                                                                                                                                                                                                    |                   |                                      |
| --                                                                                                                                                                                                                                                                                       |                   |                                      |
| <b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)                                                                                                                                                                                                     |                   |                                      |
| --                                                                                                                                                                                                                                                                                       |                   |                                      |
| <b>Module appears in</b>                                                                                                                                                                                                                                                                 |                   |                                      |
| Master's degree (1 major) Mathematical Data Science (2025)<br>Master's degree (1 major) Economathematics (2025)                                                                                                                                                                          |                   |                                      |
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