



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Mathematics with the degree "Exchange Austauschprogramm" (ECTS credits)

Responsible: Institute of Mathematics

Examination regulations version: 2023

| Abbreviations used: | Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} = lecture |
|--|---|
| | Term: SS = summer semester, WS = winter semester |
| | Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed |
| | Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules |
| | Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s) |
| Conventions for the modules in this SFB: | Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre- ditable for bonus. |
| Information on assessment procedures: | Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me- thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner. |
| | Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below. |
| | Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments. |
| | |

In accordance with the general regulations governing the degree subject described in this module catalogue:

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

| Abbreviation | Module title | | | | | | | | | | |
|--------------|--|------------|----|---|----------------|-------------------|--|--------------|--|--|--|
| | ECTS | ECTS Durat | | | (in semesters) | Method of grading | | Module level | | | |
| | Courses | | | o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y | | | | | | | |
| | Method of assessment | | | | | | | | | | |
| | Only after successful completion of | | | fapplicable | | | | | | | |
| | Other prerequisites | | | if applicable | | | | | | | |
| | Participants and allocati- on of places | | | if applicable | | | | | | | |
| | Additional information | | | if applicable | | | | | | | |
| | Referred to in | n LPO I | if | if applicable (examination regulations for teaching-degree programmes) | | | | | | | |

| Modules of Bachel | or | | | | | | | | | |
|-------------------|----------------------|-----------|------------|--|--|--|------------------------------|-------------------|---------------------------------|--|
| 10-M-ANA1-152- | Analysis 1 | | | | | | | | | |
| m01 | | 8 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Course | s | | V (4) · | + Ü (2) | | | • | | |
| | Method of assessment | | | each) | written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises | | | | | |
| 10-M-ANA2-152- | Analys | is 2 | | | | | | | | |
| m01 | ECTS | 8 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Course | S | - | V (4) · | + Ü (2) | | | • | | |
| | Method of assessment | | essment | each) | | ox. 90 to 180 minute German and/or Engl | | ox. 12 exercise s | sheets with approx. 4 exercises | |
| 10-M-AAL-222-m01 | Applied | d Algebr | a | | | | | | | |
| | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | | V (4) · | V (4) + Ü (2) | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | |
| 10-M-ADS1-222- | Applica | ations of | f Data Sci | ience i | ence in other disciplines 1 | | | | | |
| m01 | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (2) + Ü (2) | | | | | | |
| | Method of assessment | | | a) written examination (60 to 120 minutes) or b) term paper (15 to 30 pages) or c) oral examination of one candidate each (15 to 30 minutes) Language of assessment: German and/or English | | | | | | |
| 10-M-ADS2-222- | Applica | ations of | f Data Sci | ience i | ence in other disciplines 2 | | | | | |
| m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Course | S | | V (2) | V (2) + Ü (2) | | | | | |
| | | | | a) written examination (60 to 120 minutes) or b) term paper (15 to 30 pages) or c) oral examination of one candidate each (15 to 30 minutes) Language of assessment: German and/or English | | | | | | |

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| 10-M-APSL-222- | Applied Stochastics Lab | | | | | | | | | | |
|----------------------|---------------------------|----------------------|------------|---|---|---|----------------------------------|----------------|---------------|--|--|
| m01 | ECTS | 6 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (2) · | + P (2) | | | | | | |
| | Metho | d of asse | essment | | ct work (30 to 60 ho | | | | | | |
| | | | | | Language of assessment: German and/or English | | | | | | |
| 10-M-ASM-152- | Desce | ing and | Writing | | able for bonus | | | | | | |
| 10-M-ASM-152- mo1 | ECTS | | Duration | | Mathematics 1 semester Method of grading (not) successfully completed Modul level undergraduate | | | | | | |
| | Course | 2 | Duration | V (1) - | | Method of grading | | Modul level | | | |
| | | | essment | . , | ct (10 to 20 pages) | | | | | | |
| | Metho | 1 01 8556 | essment | | | : German and/or Eng | lish | | | | |
| 10-M-GES-152-m01 | Select | ed Topic | s in Histo | | Aathematics | | | | | | |
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Course | s | | V (2) · | + Ü (2) | • | | | | | |
| | Method of assessment | | | | < (45 to 90 minutes) | | | | | | |
| | | | | b) term paper (10 to 15 pages) or c) project work (15 to 25 hours) | | | | | | | |
| | | | | Language of assessment: German and/or English | | | | | | | |
| | | | | | | | the course is offered and in the | e subsequent s | emester | | |
| | Referre | Referred to in LPO I | | | I Nr. 3 f) | | | | | | |
| 10-M-COM-152- | Computational Mathematics | | | | | | | | | | |
| m01 | ECTS | 4 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Course | S | | V (1) + Ü (2) | | | | | | | |
| | Method of assessment | | | project in the form of programming exercises (approx. 20 to 25 hours) | | | | | | | |
| | | | | | | : German and/or Eng ce a year, winter seme | | | | | |
| | Poforro | d to in L | | | I Nr. 3 f) | le a year, winter seine | | | _ | | |
| 10-M-ALG-222- | | | Algebra | 9221 | 1 111. 3 1) | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | | Duration | | + Ü (2) | method of grading | numencai giade | Modulievel | undergraduate | | |
| | | - | essment | | | unnrax on to 180 min | utes, usually chosen) or | | | | |
| | Metho | 1 01 0350 | | b) ora | ll examination of or | ie candidate each (15 | to 30 minutes) or | | | | |
| | | | | c) ora | l examination in gro | oups (groups of 2, 10 | to 15 minutes per candidate) | | | | |
| | | | | | lage of assessment able for bonus | : German and/or Eng | lish | | | | |
| | | | | l ciedit | able for borrus | | | | | | |

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| 10-M-DGE-222- | Introduction to Differential Geometry | | | | | | | | | |
|------------------|---------------------------------------|-----------|------------------------|--|---|-----------------------------------|-------------|---------------|--|--|
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (4) + | ⊦Ü(2) | | | | | |
| | Methoo | d of asse | essment | b) ora c) ora Langu Asses | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M-DIM-222- | Introdu | iction to | Discrete | Mathe | ematics | | | | | |
| m01 | ECTS 10 Duratio | | | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | S | _ | V (4) + | + Ü (2) | | | _ | | |
| | Method of assessment | | | b) ora c) ora Langu | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | |
| 10-M-FAN-222- | Introdu | iction to | to Functional Analysis | | | | | | | |
| m01 | ECTS 10 Duration | | | | Modul level | undergraduate | | | | |
| | Courses | | | V (4) + Ü (2) | | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | |
| 10-M-FTH-222-m01 | Introdu | iction to | Complex | c Analy | sis | | | | | |
| | ECTS | 10 | Duration | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | V (4) + Ü (2) | | | | | | | |
| | | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | |

| 10-M-PGE-222- | Introduction to Projective Geometry | | | | | | | | | | |
|------------------|-------------------------------------|-----------|-----------|---|---|-------------------------|---|-----------------|---------------|--|--|
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (4) · | + Ü (2) | · · · · · · | | * | | | |
| | Metho | d of ass | essment | | | | tes, usually chosen) or | | | | |
| | | | | b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | | |
| | | | | | c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| | | | | | | | | | | | |
| | | | | | creditable for bonus | | | | | | |
| 10-M-EFM-222- | Introdu | uction to | Stochas | tic Fina | ancial Mathematics | | | | ~ | | |
| m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (4) · | + Ü (2) | | | | | | |
| | Metho | d of ass | essment | | | | tes, usually chosen) or | | | | |
| | | | | | | e candidate each (15 to | | | | | |
| | | | | Langu | c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English | | | | | | |
| | | | | | able for bonus | , 0 | | | | | |
| 10-M-TOP-222- | Introdu | uction to | o Topolog | у | | | | | | | |
| m01 | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | | $V(2) + \ddot{U}(2)$ | | | | | | |
| | Metho | d of ass | essment | | a) written examination (approx. 90 to 180 minutes, usually chosen) or | | | | | | |
| | | | | | b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | |
| | | | | Langi | c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English | | | | | | |
| | | | | Asses | sment offered: In th | | ne course is offered and in the | e subsequent se | emester | | |
| | | | | | creditable for bonus | | | | | | |
| 10-M-ZTH-222-m01 | | uction to | Number | Theory | / | | | | 1 | | |
| | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | - | | | V (4) + Ü (2) | | | | | | | |
| | Course | | - | | | | | | | | |
| | | | essment | a) wri | tten examination (a | | tes, usually chosen) or | | | | |
| | | | essment | a) wri b) ora | tten examination (a) l examination of on | e candidate each (15 to | o 30 minutes) or | | | | |
| | | | essment | a) wri b) ora c) ora | tten examination (a l examination of on l examination in gro | e candidate each (15 to | o 30 minutes) or 0 15 minutes per candidate) | | | | |

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| 10-M-PAR-222- | Introduction to Partial Differential Equations | | | | | | | | | |
|----------------|--|---------|---|---|---|------------------------|------------------------------|-------------|---------------|--|
| m01 | ECTS 1 | 10 | Duration | า | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | | V (4) · | + Ü (2) | • | | 8 | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M-VHB1-152- | E-Learni | ng and | Blended | Learn | ing Mathematics 1 | | | | | |
| mo1 | ECTS 2 | | Duration | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Courses | | | Ü (2) Cours | e type: eLearning, I | mostly Virtuelle Hochs | | 1 | | |
| | Method of assessment | | | Asses | roject (web-based, 15 to 20 hours) ssessment offered: Once a year, winter semester | | | | | |
| 10-M-VHB2-152- | E-Learning and Blended Learning Mathematics 2 | | | | | | | | | |
| m01 | ECTS 2 | 2 | Duration | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Courses | | Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | | |
| | Method of assessment | | | project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester | | | | | | |
| 10-M-VHB- | Elementary Quantitative Risk Assessment | | | | | | | | | |
| EQRA-222-m01 | ECTS 3 | 3 | Duration | | 1 semester | Method of grading | (not) successfully completed | Modul level | | |
| | Courses | | | Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) Module taught in: English | | | | | | |
| | Method of assessment | | | written examination (approx. 90 minutes); web-based Language of assessment: English | | | | | | |
| 10-M-GAN-222- | Geometr | ric Ana | lysis | | | | | | | |
| m01 | ECTS 1 | 10 | Duration | ı | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | | V (4) · | + Ü (2) | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | |

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| 10-M-DGL-222- | Ordinary D | Ordinary Differential Equations | | | | | | | | | | |
|-----------------|---|---------------------------------|--------------------------|--|--|-------------------|---------------|--|--|--|--|--|
| m01 | ECTS 10 | Durati | on | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | V (4) | + Ü (2) | | | | | | | | |
| | Method of | assessmen | b) ora c) ora Lang | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| 10-M-GBM-152- | Basic Notions and Methods of Mathematical Reasoning | | | | | | | | | | | |
| m01 | ECTS 2 | Durati | on | 1 semester | Method of grading (not) successfully completed | Modul level | undergraduate | | | | | |
| | Courses | ' | V (1) | + Ü (1) | · | | <u>.</u> | | | | | |
| | Method of | assessmen | | ct (10 to 15 pages) Jage of assessment: | : German and/or English | | | | | | | |
| | Additional | Information | Addit | ional information or | n module duration: block taught prior to the beginni | ng of the lecture | e period. | | | | | |
| | Referred to in LPO I | | | § 22 II Nr. 1 h) § 22 II Nr. 2 f) | | | | | | | | |
| 10-M-VHBHM-191- | History of Mathematics (virtual course) | | | | | | | | | | | |
| m01 | ECTS 5 Duratio | | on | 1 semester | Method of grading (not) successfully completed | Modul level | undergraduate | | | | | |
| | Courses | | Ü (2) Modı | Module taught in: English | | | | | | | | |
| | Method of assessment | | Lang Asse | Term paper (10 to 20 pages) Language of assessment: German and/or English Assessment offered: Once a year, summer term Other: E-Learning, Vhb | | | | | | | | |
| | Referred to | in LPO I | § 22 | § 22 II Nr. 3 f) | | | | | | | | |
| 10-M-LNA1-152- | Linear Alge | ebra 1 | | | | | | | | | | |
| m01 | ECTS 8 | Durati | on | 1 semester | Method of grading (not) successfully completed | Modul level | undergraduate | | | | | |
| | Courses | | | + Ü (2) | | | | | | | | |
| | Method of | assessmen | each | written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English | | | | | | | | |
| 10-M-LNA2-152- | Linear Alge | ebra 2 | | | | | | | | | | |
| m01 | ECTS 8 | Durati | on | 1 semester | Method of grading (not) successfully completed | Modul level | undergraduate | | | | | |
| | Courses | | V (4) | + Ü (2) | | | | | | | | |
| | Method of | assessmen | each | written examination (approx. 90 to 180 minutes) and written exercises (approx. 12 exercise sheets with approx. 4 exercises each) Language of assessment: German and/or English | | | | | | | | |

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| 10-M-MLNL-222- | Machine Learning and Numerics Lab | | | | | | | | | |
|------------------|-----------------------------------|----------------------|-----------|--|---|---|------------------|---------------|--|--|
| m01 | ECTS | 6 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | 5 | | V (2) | + P (2) | | • | | | |
| | Method of assessment | | | | | | | | | |
| | | | | Langu | Language of assessment: German and/or English | | | | | |
| | | | | | table for bonus | | , | | | |
| 10-M-MFD-222- | r | | 1 | | Data Science | | | | | |
| m01 | | 10 | Duratio | | 2 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | | | + Ü (1) + V (2) + Ü (1 | | | | | |
| | Method | ofasse | essment | | | pprox. 90 to 180 minutes, usually chosen) or | | | | |
| | | | | | | ne candidate each (15 to 30 minutes) or pups (groups of 2, 10 to 15 minutes per candidate) | | | | |
| | | | | | | : German and/or English | | | | |
| | | | | | creditable for bonus | | | | | |
| 10-M-MML-222- | Mathematics of Machine Learning | | | | | | | | | |
| m01 | ECTS 10 Duratio | | | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Mothod | ofacc | essment | | | | | | | |
| | Methou | 01 855 | essment | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | |
| | | | | c) oral examination in groups (groups of 2, 10 to 15 minutes) or | | | | | | |
| | | | | Language of assessment: German and/or English | | | | | | |
| | | | | | ssment offered: In ti table for bonus | he semester in which the course is offered and in t | he subsequent se | emester | | |
| 10-M-KRY-232-m01 | Mathon | natical | Aspects o | | | | | | | |
| 10 M KKT 252 MOI | | 5 | Duratio | | 1 semester | Method of grading (not) successfully complete | d Modul level | undergraduate | | |
| | Courses | | Duration | | + Ü (1) | method of grading (not) successfully completed | | | | |
| | | - | essment | | | approx. 60 to 120 minutes, usually chosen) or | | | | |
| | Methou | 01 855 | essment | | | ne candidate each (15 to 30 minutes) or | | | | |
| | | | | | | oups (groups of 2, 10 to 15 minutes per candidate) | | | | |
| | | | | Language of assessment: German and/or English | | | | | | |
| | | | | Assessment offered: in the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| | Referred | Referred to in LPO I | | | ll Nr. 3 f) | | | | | |

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| 10-M-MSC-152- | Mathematical Writing | | | | | | | | | | |
|----------------|----------------------|-----------|--------------|--|--|---|-----------------|---------------|--|--|--|
| m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading (not) successfully completed | Modul level | undergraduate | | | |
| | Course | es | | V (2) · | + Ü (2) | | * | | | | |
| | Metho | d of ass | essment | | < (45 to 90 minutes) | | | | | | |
| | | | | | b) term paper (10 to 15 pages) or | | | | | | |
| | | | | | c) project work (15 to 25 hours) Language of assessment: German and/or English | | | | | | |
| | | | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| | Referr | ed to in | LPO I | § 22 | § 22 Nr. 3 f) | | | | | | |
| 10-M-MWR-222- | Model | ling and | l Computa | tional | Science | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | es | | | + Ü (2) Ile taught in: Germa | n and /or English | | | | | |
| | Matha | daface | accmont | | | | | | | | |
| | Metho | o or ass | essment | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | |
| | | | | c) oral examination in groups (groups of 2, 10 to 15 minutes) or | | | | | | | |
| | | | | | Language of assessment: German and/or English | | | | | | |
| | | | | | ssment offered: In tl able for bonus | ne semester in which the course is offered and in th | e subsequent so | emester | | | |
| 10-M-NUM1-222- | Nume | rical Ma | thematics | | | | | | | | |
| m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | | 2 di di di o | | + Ü (2) | | | | | | |
| | | | essment | 11 | a) written examination (approx. 90 to 180 minutes, usually chosen) or | | | | | | |
| | meene | u 01 uss | cooment | | b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | |
| | | | | | c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) | | | | | | |
| | | | | | Language of assessment: German and/or English creditable for bonus | | | | | | |
| 10-M-NUM2-222- | Numo | rical Ma | thematics | | | | | | | | |
| mo1 | ECTS | 10 | Duratio | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | | Duratio | | + Ü (2) | Method of grading humencal grade | Modulievei | undergraduate | | | |
| | | | occmont | | | noray on to the minutes usually chosen) or | | _ | | | |
| | Metho | iu or ass | essment | | | pprox. 90 to 180 minutes, usually chosen) or le candidate each (15 to 30 minutes) or | | | | | |
| | | | | | | pups (groups of 2, 10 to 15 minutes per candidate) | | | | | |
| | | | | Langu | Language of assessment: German and/or English | | | | | | |
| | | | | credit | able for bonus | | | | | | |

| 10-M-OML-222- | Optimization | tion for Machine Learning | | | | | | | | |
|------------------|------------------------|---------------------------|--|---|--------------------|------------------------------|-------------|---------------|--|--|
| m01 | ECTS 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of ass | essment | b) ora c) ora Langu Asses | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M-PRG-152-m01 | Programming | course fo | r stude | ents of Mathematics | and other subjects | | | | | |
| | ECTS 3 | Duratio | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | P (2) | | | | | | | |
| | Method of ass | | Langu | project in the form of programming exercises (approx. 20 to 25 hours) Language of assessment: German and/or English Assessment offered: Once a year, summer semester | | | | | | |
| | Referred to in | LPO I | § 22 | § 22 Nr. 3 f) | | | | | | |
| 10-M-PRO-152-m01 | Proseminar Mathematics | | | | | | | | | |
| | ECTS 4 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | | | | | | | |
| | Method of ass | essment | Langi | talk (60 to 120 minutes) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered | | | | | | |
| 10-M-SEM-152- | Seminar Mathematics | | | | | | | | | |
| m01 | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | S (2) | S (2) | | | | | | |
| | Method of ass | essment | talk (60 to 120 minutes) Language of assessment: German and/or English | | | | | | | |
| | Referred to in | LPO I | § 22 | § 22 Nr. 3 f) | | | | | | |
| 10-M-ST01-222- | Stochastics 1 | | | | | | | | | |
| m01 | ECTS 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (4) · | + Ü (2) | | | | | | |
| | Method of ass | essment | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | | |

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| 10-M-ST02-222- | Stocha | stics 2 | | | | | | | | | |
|-------------------|------------------------|-----------|-------------|--|--|-----------------------|--|------------------|------------------------------------|--|--|
| m01 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | S | | V (4) + | - Ü (2) | • | | | · | | |
| | Method | lofasse | | | | | utes, usually chosen) or | | | | |
| | | | | | | ne candidate each (15 | | | | | |
| | | | | | c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English | | | | | | |
| | | | | creditable for bonus | | | | | | | |
| 10-M-Tu- | Exercis | e tutor (| or proof-re | eading | in Mathematics | | | | | | |
| Ko-152-mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | 5 | | T (o) | | | | | | | |
| | Method | lofasse | | | | | work by supervising lecturers of | or exercise supe | ervisors (1 to 2 teaching units or | | |
| | | | | | x. 5 pieces of corre | | | | | | |
| | Additional Information | | | Please direct application to teaching coordinator Mathematics, he/she will select participants. | | | | | | | |
| | Referred to in LPO I | | | § 22 Nr. 3 f) | | | | | | | |
| 10-M-VAN-222- | Advanced Analysis | | | | | | | | | | |
| m01 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | S | | V (4) + | ., | | | | | | |
| | Method | lofasse | essment | a) written examination (approx. 90 to 180 minutes, usually chosen) or | | | | | | | |
| | | | | b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | | |
| | | | | c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English | | | | | | | |
| | | | | creditable for bonus | | | | | | | |
| Modules of Master | , | | | | | | | | | | |
| 10-M=VA- | Algebra | aic Geor | netry | | | | | | | | |
| GEin-211-m01 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | S | | V (4) + | | | | | | | |
| | | | | Module taught in: English | | | | | | | |
| | Method | l of asse | | | | | ites, usually chosen) or | | | | |
| | | | | | | ne candidate each (ap | prox. 20 minutes) or ninutes per candidate) | | | | |
| | | | | | | | innutes per candidate) | | | | |
| | | | | Language of assessment: English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | | | |
| | | | | credit | able for bonus | | | - | | | |

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| 10-M=VAT- | Algebraic Topology | | | | | | | | | | |
|---------------|----------------------|----------|-----------|--|---|---|--|---|---|--|--|
| Pin-152-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Course | es. | | | + Ü (2) Ile taught in: Engli | sh | · | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VAT- | Algebr | aic Top | ology | | | | | | | | |
| P-102-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Course | es | | V + Ü | (no information o | n SWS (weekly contact | hours) and course lang | guage available) | | | |
| | | | essment | At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (approx. 90 to 120 minutes; usually chosen), b) oral examination of one candidate each (approx. 20 minutes), c) oral exami- nation in groups of 2 candidates (approx. 30 minutes total) Language of assessment: German, English Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- | | | | | | | |
| | other prerequisites | | | corda (e.g. tails a asses turer in the admis | nce with the spec successful comple at the beginning of sment. If students will put their regis current or in the ssion to assessme | ified registration dead etion of a certain perce f the course. Registrati s have obtained the qu tration for assessment subsequent semester. | lines. Certain prerequis entage of exercises). The on for the exercise will alification for admissio into effect. Students w | ites must be met to qua e lecturer will inform stu be considered a declara on to assessment over th rho meet all prerequisite | s announced by the lecturer in ac- lify for admission to assessment dents about the respective de- tion of will to seek admission to be course of the semester, the lec- s will be admitted to assessment ave to obtain the qualification for | | |
| 10-M=MP2-161- | Algebr | a and D | ynamics o | of Qua | ntum Systems | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | b) ora c) ora Langi | al examination of c l examination in g | one candidate each (ap | utes, usually chosen) o oprox. 20 minutes) or minutes per candidate) | | | | |

| 10-M=VAZ- | Algorit | Algorithmic Number Theory | | | | | | | | | |
|----------------|----------------------|---------------------------|----------|--|--|---|--|-------------|----------|--|--|
| T-192-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Course | 25 | | | + Ü (2) Ile taught in: Gern | nan and/or English | | · | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | اl examination of و l examination in المود of assessme | (approx. 90 to 120 min one candidate each (ap groups (groups of 2, 15 nt: German or English the semester in which | pprox. 20 minutes) or minutes per candidate | | emester | | |
| 10-M=MP1-161- | Analys | is and (| Geometry | of Clas | sical Systems | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Course | 25 | _ | | + Ü (2) le taught in: Gern | nan and/or English | 1 | I | • | | |
| | Metho | d of ass | essment | b) ora c) ora Langu | اl examination of و ا examination in و | (approx. 90 to 120 min one candidate each (ap groups (groups of 2, 15 nt: German or English | prox. 20 minutes) or | | | | |
| 10-M=AAZ- | Analyt | Analytic Number Theory | | | | | | | | | |
| T-222-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | b) ora c) ora Langu Asses | اl examination of و l examination in المعود of assessme | (approx. 90 to 120 min one candidate each (ap groups (groups of 2, 15 nt: German or English the semester in which | pprox. 20 minutes) or minutes per candidate | | emester | | |
| 10-M=AAAN-161- | Applie | d Analy | sis | | | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Course | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | b) ora c) ora Langu Asses | ten examination (approx. 90 to 120 minutes, usually chosen) or examination of one candidate each (approx. 20 minutes) or examination in groups (groups of 2, 15 minutes per candidate) age of assessment: German or English sment offered: In the semester in which the course is offered and in the subsequent semester able for bonus | | | | | | |

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| 10-M=VAD- | Applie | d Differe | ential Geo | metry | | | | | | | | |
|------------|--|-----------|------------|--|---|-------------------|-----------------|-------------|----------|--|--|--|
| G-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | | + Ü (2) ıle taught in: Germar | n and/or English | | | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=GAL- | Resea | rch in Gr | oups - Al | gebra | | | | | | | | |
| G-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | | + S (2) ıle taught in: Germar | n and/or English | | | | | | |
| | Metho | d of ass | essment | Langi | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |
| 10-M=GAD- | Research in Groups - Applied Differential Geometry | | | | | | | | | | | |
| G-192-m01 | ECTS 10 Duratio | | | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Courses | | | V (2) + S (2) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | essment | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | | | | |
| 10-M=GDF- | Research in Groups - Deformation Quantization | | | | | | | | | | | |
| Q-161-m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | V (2) + S (2) Module taught in: German and/or English | | | | | | | | |
| | | | essment | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | | |
| 10-M=GD- | Resea | rch in Gr | oups - Di | fferent | ial Geometry | | | | | | | |
| GE-161-m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | | V (2) + S (2) Module taught in: German and/or English | | | | | | | |
| | Metho | d of ass | essment | Langi | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |

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| 10-M=G- | Resear | earch in Groups - Discrete Mathematics | | | | | | | | |
|------------------------|----------------------|--|---|---|--|-------------------|-----------------------------|----------------------|----------|--|
| DIM-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | !S | | | + S (2) | | | | - | |
| | | | _ | | lle taught in: Germar | n and/or English | | | | |
| | Metho | d of ass | essment | | 60 to 120 minutes) | | | | | |
| | | | | Langi | uage of assessment: | German or English | the course is offered and i | in the subsequent se | amester | |
| 10-M=GD- | Resear | ch in G | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester namical Systems and Control Theory | | | | | |
| SC-161-m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | | Duratio | ~ | + S (2) | Method of grading | numeneur grade | Modulievel | Siduate | |
| | course | .5 | | · · · | lle taught in: Germar | n and/or English | | | | |
| | Metho | d of ass | essment | talk (| 60 to 120 minutes) | | | | | |
| | | | | | uage of assessment: | | | | | |
| | _ | | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | |
| 10-M=G- FAN-222-m01 | | | | | al Analysis | | | 1 | | |
| FAN-222-1101 | ECTS 10 Duratio | | | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Courses | | | V (2) + S (2) Module taught in: German and/or English | | | | | | |
| | Mathad of accordment | | | talk (60 to 120 minutes) | | | | | | |
| | Method of assessment | | | Language of assessment: German or English | | | | | | |
| | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |
| 10-M=G- | Resear | rch in G | roups - Co | mplex Analysis | | | | | | |
| COA-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | s | | V (2) + S (2) | | | | | | |
| | | - | _ | Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | talk (60 to 120 minutes) | | | | | | |
| | | | | Language of assessment: German or English | | | | | | |
| 10-M=GGM- | Pocoa | ch in G | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| T-161-m01 | ECTS | | | cometry and Topology | | | | | | |
| | | | | | | | | | | |
| | Course | !5 | | V (2) + S (2) Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | essment | | 60 to 120 minutes) | | | | | |
| | method of assessment | | | Language of assessment: German or English | | | | | | |
| | | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |

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| 10-M=GHST-222- | Research in Groups - Higher Structures | | | | | | | | | | | |
|----------------|--|----------|------------|--|--|---|-------------------------|--------------------------|----------|--|--|--|
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | | V (2) + S (2) Module taught in: German and/or English | | | | | | | |
| | Metho | d of ass | essment | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | | |
| 10-M=GIN- | Research in Groups - Inverse Problems | | | | | | | | | | | |
| P-222-m01 | ECTS 10 Duration | | | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | | + S (2) le taught in: Germa | n and/or English | | | | | | |
| | Method of assessment | | | Langu | 50 to 120 minutes) lage of assessment sment offered: In th | : German or English ne semester in which | the course is offered a | and in the subsequent se | emester | | | |
| 10-M=GC- | Resea | rch in G | roups - Co | ntrol T | ntrol Theory of Quantum Mechanical Systems | | | | | | | |
| QS-161-m01 | ECTS 10 Duratio | | | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | es | | V (2) + S (2) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | essment | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | | |
| 10-M=GLIE-192- | Research in Groups - Lie Theory | | | | | | | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Courses | | | V (2) + S (2) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | essment | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | | | | |
| 10-M=G- | Resea | rch in G | roups - Mo | easure | and Integral | | | | | | | |
| MAI-161-m01 | ECTS 10 Duratio | | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | 25 | | V (2) + S (2) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | essment | Langi | | : German or English ne semester in which | the course is offered a | and in the subsequent se | emester | | | |

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| 10-M=GM- | Resear | rch in G | roups - Ma | athematics in Context | | | | | | |
|------------------------|----------------------|--|--|---|--|---------------------|---------------------------|------------------------|----------|--|
| CX-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | | | + S (2) | ., | | | | |
| | | | | | le taught in: Germar | n and/or English | | | | |
| | Metho | d of ass | essment | | 60 to 120 minutes) | | | | | |
| | | | | Lang | uage of assessment: | German or English | the course is offered and | d in the subsequent se | amester | |
| 10-M=GM- | Resear | rch in G | rouns - M | | atics in the Sciences | | the course is offered and | | | |
| SC-161-m01 | ECTS | 10 | Duratio | | 1 semester | | numerical grade | Modul level | graduate | |
| | Course | | Duratio | | 1 semesterMethod of gradingnumerical gradeModul levelgraduate(2) + S (2) | | | | | |
| | course | .5 | | | V (2) + 5 (2) Module taught in: German and/or English | | | | | |
| | Metho | d of ass | essment | | 60 to 120 minutes) | | | | | |
| | | | | | uage of assessment: | | | | | |
| | Deces | | | | | e semester in which | the course is offered and | d in the subsequent se | emester | |
| 10-M=G- MAP-192-m01 | | | | | atical Physics | | · | | 1 | |
| MAI -192-11101 | ECTS 10 Duratio | | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | V (2) + S (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | talk (60 to 120 minutes) | | | | | | |
| | | | Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | | | |
| 10-M=GN- | Resear | Research in Groups - Non-linear Analysis | | | | | | | | |
| LA-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | s | | V(2) + S(2) | | | | | | |
| | | _ | | Module taught in: German and/or English | | | | | | |
| | Metho | Method of assessment | | | talk (60 to 120 minutes) | | | | | |
| | | | | Language of assessment: German or English | | | | | | |
| 10-M=GN- | Bacaar | ch in C | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| MA-161-m01 | | | | Imerical Mathematics and Applied Analysis | | | | | | |
| | | ECTS 10 Duratio | | | | | | graduate | | |
| | Course | 25 | | V (2) + S (2) Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | essment | talk (| 60 to 120 minutes) | | | | | |
| | | | | Language of assessment: German or English | | | | | | |
| | | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |

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| 10-M=GO- | Resea | rch in G | roups - Oj | perator Algebras | | | | | | |
|------------------------|---------|----------------------|-------------------------------|--|--|----------------------|--------------------------|------------------------|----------|--|
| PA-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | es | | | + S (2) | | | • | | |
| | | | | | ule taught in: Germar | n and/or English | | | | |
| | Metho | d of ass | essment | | 60 to 120 minutes) | | | | | |
| | | | | Lang | uage of assessment: | German or English | the course is offered an | d in the subsequent se | emester | |
| 10-M=GROC-161- | Resear | rch in G | rouns - Ro | | Assessment offered: In the semester in which the course is offered and in the subsequent semester potics, Optimization and Control Theory | | | | | |
| mo1 | ECTS | 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | | Duratio | | + S (2) | method of grading | numeneur grade | moduttevet | 3.44446 | |
| | course | | | | ule taught in: Germar | n and/or English | | | | |
| | Metho | d of ass | essment | | (60 to 120 minutes) | | | | | |
| | | | | | uage of assessment: | | | | | |
| 10-M=G- | Deces | vah in Ci | | | | le semester in which | the course is offered an | a in the subsequent se | emester | |
| STA-161-m01 | ECTS | 10 | r oups - St Duratio | | 1 | Mathad of grading | numerical grade | Madullaval | graduata | |
| | | | | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Courses | | | V (2) + S (2) Module taught in: German and/or English | | | | | | |
| | Metho | Method of assessment | | | talk (60 to 120 minutes) | | | | | |
| | | | | Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 10-M=GNTH-161- | Resear | rch in Gi | roups - Ni | | | | | <u></u> | | |
| mo1 | ECTS | 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | 25 | | V (2) + S (2) | | | | | | |
| | | | | Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | essment | talk (60 to 120 minutes) | | | | | | |
| | | | | Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 10-M=GT- | Deces | vah in Ci | wayna Ti | | | le semester in which | the course is offered an | a in the subsequent se | emester | |
| 10-M=G1- SA-161-m01 | | | | | ne Series Analysis 1 semester Method of grading numerical grade Modul level graduate | | | | | |
| 0,1101 1101 | | ECTS 10 Duratio | | | 1 semester | method of grading | numerical grade | Modul level | graduate | |
| | Course | 25 | | | V (2) + S (2) Module taught in: German and/or English | | | | | |
| | Metho | d of ass | essment | | (60 to 120 minutes) | | | | | |
| | | | | | Language of assessment: German or English | | | | | |
| | | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |

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| 10-M=AAL- | Topics | opics in Algebra | | | | | | | | |
|----------------|-------------------------------------|------------------|------------|---|--|--|----------------------|----------|--|--|
| G-161-m01 | ECTS | 10 | Duratio | n | 1 semester Method of grading numerical grade Modul level graduate | | | | | |
| | Course | es | | | + Ü (2) | | | | | |
| | | | | | | nan and/or English | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V- | Aspect | s of Ge | ometry | | | | | | | |
| GEO-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Course | | | V (3) · Modu | | nan and/or English | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=VAFT-222- | Selected Topics in Complex Analysis | | | | | | | | | |
| m01 | ECTS 5 Duration | | | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Courses | | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | |
| | Metho | d of ass | essment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VA- | Select | ed Topi | cs in Anal | ysis | | | | | | |
| NA-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Courses | | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | al examination of l examination in g Jage of assessme | (approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and | in the subsequent se | emester | | |

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| 10-M=VFN- | Selecte | ed Topics in Financial Mathematics | | | | | | | | |
|----------------|--|------------------------------------|------------|---|---|--|--|-------------|----------|--|
| M-161-m01 | ECTS | 10 | Duratio | n | 1 semester Method of grading numerical grade Modul level graduate | | | | | |
| | Course | S | | | + Ü (2) Ile taught in: Gerr | nan and/or English | | | | |
| | Method | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=VMPH-161- | Selecte | ed Topic | s in Math | emati | cal Physics | | | | | |
| m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | g numerical grade | Modul level | graduate | |
| | Course | S | | | + Ü (2) Ile taught in: Gerr | nan and/or English | · | · | | |
| | Methoo | d of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V- | Selected Topics in Numerical and Applied Mathematics | | | | | | | | | |
| NAM-192-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of gradin | g numerical grade | Modul level | graduate | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Methoo | d of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | emester | |
| 10-M=VOP- | Selecte | ed Topic | s in Optin | mizatio | on | | | | | |
| T-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading | g numerical grade | Modul level | graduate | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Methoo | d of ass | essment | b) ora c) ora Langu Asses | l examination of l examination in g lage of assessme | one candidate each (a groups (groups of 2, 1 nt: German or English | nutes, usually chosen) c approx. 20 minutes) or 5 minutes per candidate h the course is offered a |) | emester | |

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| 10-M=V- | Selected Topics in Control Theory | | | | | | | | | | |
|-------------|-----------------------------------|------------------|-----------|---|---|-------------------------------|------|-------------|----------|--|--|
| TRT-161-m01 | ECTS | ECTS 10 Duration | | 1 | 1 semester | Method of grading numerical g | rade | Modul level | graduate | | |
| | Course | S | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Methoo | l of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AT- | Selecte | ed Topic | s in Busi | ness N | lathematics | | | | | | |
| WM-161-m01 | ECTS | 10 | Duratio | า | 1 semester | Method of grading numerical g | rade | Modul level | graduate | | |
| | Course | S | | | + Ü (2) ıle taught in: Gern | nan and/or English | | | | | |
| | Methoo | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V- | Computer Algebra | | | | | | | | | | |
| CAL-192-m01 | ECTS 10 Duration | | | 1 | 1 semester | Method of grading numerical g | rade | Modul level | graduate | | |
| | Course | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | emester | | |
| 10-M=ADG- | Differe | ntial Ge | ometry | | | | | | | | |
| M-161-m01 | ECTS | 10 | Duratio | ı | 1 semester | Method of grading numerical g | rade | Modul level | graduate | | |
| | Course | S | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |

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| 10-M=V- | Discrete Mathematics | | | | | | | | | | | |
|-------------|----------------------|---------------------|---------|---|--|-------------------------------|-------|-------------|----------|--|--|--|
| DIM-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading numerical g | grade | Modul level | graduate | | | |
| | Course | S | | V (3) - Modu | | an and/or English | | | | | | |
| | Metho | d of ass | essment | a) wri b) ora c) ora Langu Asses | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=VD- | Dynam | ical Sys | stems | | | | | | | | | |
| SY-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading numerical g | grade | Modul level | graduate | | | |
| | Course | S | | V (3) - Modu | | an and/or English | | | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=AF- | Functio | Functional Analysis | | | | | | | | | | |
| AN-161-m01 | ECTS 10 Duration | | | n | 1 semester | Method of grading numerical g | grade | Modul level | graduate | | | |
| | Course | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Metho | d of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | emester | | | |
| 10-M=AFT- | Comple | ex Analy | ysis | | | | | | | | | |
| H-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical g | grade | Modul level | graduate | | | |
| | Course | S | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | b) ora c) ora Langu Asses | written examination (approx. 90 to 120 minutes, usually chosen) or oral examination of one candidate each (approx. 20 minutes) or oral examination in groups (groups of 2, 15 minutes per candidate) nguage of assessment: German or English ssessment offered: In the semester in which the course is offered and in the subsequent semester editable for bonus | | | | | | | |

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| 10-M=VGFT-192- | Geome | tric Complex Analysis | | | | | | | | |
|----------------|----------------------|-----------------------|-------------|--|---|-------------------|-----------------|-------------|----------|--|
| m01 | ECTS | 10 | Duratio | า | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | _ | | ⊦ Ü (2) le taught in: Germa | in and/or English | | | | |
| | Method | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V- | Geome | trical N | lechanics | | | | | | | |
| GEM-161-m01 | ECTS | 10 | Duration | ۱ | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | | | ⊦ Ü (2) le taught in: Germa | in and/or English | | | | |
| | Methoo | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=AGMS-161- | Geometric Structures | | | | | | | | | |
| m01 | ECTS 10 Duration | | | - | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Courses | | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | emester | |
| 10-M=VG- | Giovan | ni Prod | i Lecture / | Advanc | ed Topics (Master) | | | | | |
| PA-161-m01 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Methoo | d of ass | essment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

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| 10-M=AGP- | Giovanni-Prodi Lecture (Master) | | | | | | | | | | | |
|----------------|---|-----------|-------------|---|---|-----------------------|-----------------------|------------------|----------|--|--|--|
| C-102-m01 | ECTS | 5 | Duration | า | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | S | | V + Ü | (no information or | n SWS (weekly contact | hours) and course lan | guage available) | | | | |
| | Methoo | 1 of ass | essment | (60 to 2, ap | At the beginning of the course, the lecturer will choose one of the following methods of assessment: a) written examination (60 to 90 minutes), b) oral examination of one candidate each (approx. 15 minutes), c) oral examination in groups (groups of 2, approx. 20 minutes) Language of assessment: English, German if agreed upon with the examiner | | | | | | | |
| | other p | orerequi | sites | corda (e.g. tails a asses turer in the | Registration for the exercise must be made via SB@home at the beginning of the course or as announced by the lecturer in ac- cordance with the specified registration deadlines. Certain prerequisites must be met to qualify for admission to assessment (e. g. successful completion of a certain percentage of exercises). The lecturer will inform students about the respective de- tails at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lec- turer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. | | | | | | | |
| 10-M=VGPM-161- | Giovanni Prodi Lecture Modern Topics (Master) | | | | | | | | | | | |
| m01 | ECTS | 10 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | | |
| 10-M=VG- | Giovan | ni Prodi | i Lecture S | Selecto | ed Topics (Master) | | | | | | | |
| PS-161-m01 | ECTS | 10 | Duration | า | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | |
| | Course | S | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | | |
| | Method | d of asso | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | | |

| 10-M=SGP- | Giovar | Giovanni Prodi Seminar (Master) | | | | | | | | | | |
|----------------|----------------------------------|---------------------------------|----------|--|---|----------------------|----------------|-------------|----------|--|--|--|
| C-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading nu | umerical grade | Modul level | graduate | | | |
| | Course | es | | S (2) Modu | S (2) Module taught in: German and/or English | | | | | | | |
| | Metho | d of ass | essment | Langi | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |
| 10-M=AOP- | Basics | in Opti | mization | | | | | | | | | |
| T-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading nu | umerical grade | Modul level | graduate | | | |
| | Course | es | | | + Ü (2) Ile taught in: Germa | n and/or English | | | | | | |
| | Method of assessment | | | b) ora c) ora Langu Asses credit | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=VGDS-161- | Groups and their Representations | | | | | | | | | | | |
| m01 | ECTS 10 Duratio | | Duratio | | 1 semester | Method of grading nu | umerical grade | Modul level | graduate | | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | emester | | | |
| 10-M=AIST-161- | Indust | rial Stat | istics 1 | | | | | | | | | |
| m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading nu | umerical grade | Modul level | graduate | | | |
| | Course | es | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | | |

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| 10-M=VIST-161- | Industrial Statistics 2 | | | | | | | | | | | | |
|----------------|-------------------------|-----------|------------|--|--|-------------------|-----------------|-------------|---------------|--|--|--|--|
| m01 | ECTS | 10 | Duration | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | | |
| | Course | 25 | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | sessment | b) ora c) ora Langu Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | | |
| 10-M=SID- | Interd | isciplina | ary Semina | ar | | | | | | | | | |
| C-161-m01 | ECTS | 5 | Duration | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | | |
| | Course | 25 | | S (2) Modu | le taught in: Germa | an and/or English | | | | | | | |
| | | | sessment | Langu | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | | |
| 10-M=VI- | Inverse Problems 1 | | | | | | | | | | | | |
| PR-222-m01 | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | | | |
| | Course | 25 | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | sessment | b) ora c) ora Langu Asses | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | | |
| 10-M=VIP2-222- | Invers | e Proble | ems 2 | | | | | | | | | | |
| m01 | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Courses | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | | | |

| 10-M=VK- | Complex Geometry | | | | | | | | | | |
|-------------|------------------|----------|-----------|---|---|---|-------------------------|--------------|--|--|--|
| GE-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Course | S | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Methoo | d of ass | essment | b) ora c) ora Langi Asses | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=V- | Field A | rithmet | ics | | | | | | | | |
| KAR-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Course | S | | | + Ü (2) ıle taught in: Germ | nan and/or English | | | | | |
| | | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=V- | Crypto | graphy | /Coding T | heory | | | | | | | |
| KRY-192-m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Course | S | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Methoo | d of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=EL- | Learnir | ng by Te | eaching 1 | | | | | | | | |
| T1-192-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading (not) successfully comp | leted Modul level | graduate | | | |
| | Course | S | | Ü (2) | | · · · | · | | | | |
| | Methoo | d of ass | essment | | ssment of tutoring uage of assessme | activities by supervising lecturers or exercise s nt: German | upervisors (1 to 2 tead | ching units) | | | |
| | Additio | nal Info | ormation | Appli | cation and selecti | on with the teaching coordinator for mathemati | CS | | | | |

| 10-M=EL- | Learnin | ig by Te | eaching 2 | | | | | , | | | |
|------------------------|----------------------|----------|-----------|--|--|--|--|-------------------|--------------|--|--|
| T2-192-m01 | ECTS | 5 | Duratio | n | 1 semester Method of grading (not) successfully completed Modul level graduate | | | | | | |
| | Course | S | | Ü (2) | - | | | 2 | | | |
| | Method | d of ass | essment | | | | g lecturers or exercise supervi | sors (1 to 2 teac | ching units) | | |
| | | | | - | lage of assessment | | | | _ | | |
| | | | ormation | Appli | cation and selectio | n with the teaching co | ordinator for mathematics | | | | |
| 10-M=ALTH-161- | Lie The | <u> </u> | | | | | | | | | |
| m01 | ECTS 10 Duratio | | | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | b) ora c) ora Lang Asse | al examination of or Il examination in gr Jage of assessment | ne candidate each (ap oups (groups of 2, 15 r t: German or English | utes, usually chosen) or prox. 20 minutes) or ninutes per candidate) the course is offered and in the | e subsequent se | emester | | |
| 10-M=VMB- | Mathematical Imaging | | | | | | | | | | |
| V-161-m01 | ECTS 5 Duratio | | | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | | | | | | emester | | |
| 10-M=V- KOM-161-m01 | Mather | natical | Continuu | m Meo | hanics | | | | | | |
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | b) ora c) ora Lang Asse | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

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| 10-M=V- | Mathe | matical | Statistics | 5 | | | | | | | |
|------------------------|----------------------|----------|------------|--|---|---|-------------|----------|--|--|--|
| STA-212-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Course | es | | | + Ü (2) Ile taught in: Gern | nan and/or English | | | | | |
| | Metho | d of ass | sessment | b) ora c) ora Langu Asses | l examination of l examination in g lage of assessme | (approx. 90 to 120 minutes, usually chosen) one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate ent: German or English the semester in which the course is offered a | e) | emester | | | |
| 10-M=VMT- | Modul | e Theor | у | | | | | | | | |
| H-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Course | es | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | sessment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| 10-M=V- | Non-linear Analysis | | | | | | | | | | |
| NAN-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Courses | | | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | sessment | b) ora c) ora Langu Asses | l examination of l examination in g lage of assessme | (approx. 60 to 90 minutes, usually chosen) o one candidate each (approx. 15 minutes) or groups (groups of 2, approx. 10 minutes per c nt: German or English the semester in which the course is offered a | andidate) | emester | | | |
| 10-M=ANG- G-161-m01 | Numer | ic of La | rge Syste | ms of E | quations | | | | | | |
| | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Course | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | b) ora c) ora Langu Asses | written examination (approx. 90 to 120 minutes, usually chosen) or bral examination of one candidate each (approx. 20 minutes) or bral examination in groups (groups of 2, 15 minutes per candidate) nguage of assessment: German or English sessment offered: In the semester in which the course is offered and in the subsequent semester ditable for bonus | | | | | | |

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| 10-M=VN- | Numer | ic of Pa | rtial Diffe | rential | Equations | | | | | |
|----------------|---|----------|-------------|------------------------------------|--|--|----------------------|----------|--|--|
| PE-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Course | S | | | + Ü (2) ıle taught in: Germ | an and/or English | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | al examination of o Il examination in g Jage of assessmer | (approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i | in the subsequent se | emester | | |
| 10-M=VOST-161- | Optima | al Contr | ol | | | | | | | |
| m01 | ECTS | 5 | Duratio | n | 1 semester | graduate | | | | |
| | Course | S | | V (3) Modu | | nan and/or English | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |
| 10-M=V- | Pseudo Riemannian and Riemannian Geometry | | | | | | | | | |
| PRG-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Courses | | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Method of assessment | | | b) ora c) ora Langu Asses | al examination of o Il examination in g Jage of assessmer | (approx. 90 to 120 minutes, usually chosen) or one candidate each (approx. 20 minutes) or groups (groups of 2, 15 minutes per candidate) nt: German or English the semester in which the course is offered and i | in the subsequent se | emester | | |
| 10-M=ARTH-161- | Contro | l Theory | / | | | | | | | |
| m01 | ECTS | 10 | Duratio | | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Course | S | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Metho | d of ass | essment | b) ora c) ora Langu Asses | 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) c) anguage of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

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| 10-M=SAL- | Semina | ar in Alg | ebra | | | | | | | |
|-------------|--|----------------------------|------------|--|--|--|------------------------------|-------------------|----------|--|
| G-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | | S (2) Modu | ıle taught in: Germaı | n and/or English | | | | |
| | Method | d of ass | essment | Langi | 60 to 120 minutes) Jage of assessment: Ssment offered: In th | | the course is offered and in | the subsequent se | emester | |
| 10-M=SAD- | Semina | ar in Ap | plied Diff | erentia | l Geometry | | | | | |
| G-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | | S (2) Modu | ıle taught in: Germaı | n and/or English | | | | |
| | Method of assessment | | essment | Langi | 60 to 120 minutes) Jage of assessment: Ssment offered: In th | German or English e semester in which | the course is offered and in | the subsequent se | emester | |
| 10-M=SA- | Semina | eminar Applied Mathematics | | | | | | | | |
| MA-192-m01 | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | S (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester | | | | | | |
| 10-M=SD- | Seminar in Dynamical Systems and Control | | | | | | | | | |
| SC-161-m01 | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | S (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 10-M=S- | Semina | ar in Fin | ancial an | d Insurance Mathematics | | | | | | |
| FIM-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | S | | S (2) Modu | ıle taught in: Germaı | n and/or English | | | | |
| | Method | d of ass | essment | Langi | 60 to 120 minutes) Jage of assessment: Ssment offered: In th | | the course is offered and in | the subsequent se | emester | |

| Mathematics (2023) | JMU Würzburg • generated 28-Nov-2024 • exam. reg. data record XA 105 - - H 2023 | page 32 / 52 |
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| 10-M=S- | Seminar in Co | omplex An | alysis | | | | | | | |
|-------------|-----------------------|-------------|--|--|---|---------------------------|------------------------|----------|--|--|
| COA-161-m01 | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | S (2) | | | | | | | |
| | | | | ule taught in: Germa | n and/or English | | | - | | |
| | Method of as | sessment | | 60 to 120 minutes) | Common or Freelish | | | | | |
| | | | Asse | uage of assessment ssment offered. In th | : German or English he semester in which : | the course is offered and | l in the subsequent se | emester | | |
| 10-M=S- | Seminar in G | eometry a | | Assessment offered: In the semester in which the course is offered and in the subsequent semester d Topology | | | | | | |
| GTO-161-m01 | ECTS 5 | Duratio | <u> </u> | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | S (2) | (2) | | | | | | |
| | | | Modu | ule taught in: Germa | n and/or English | | | | | |
| | Method of as | sessment | talk (| 60 to 120 minutes) | | | | | | |
| | | | | Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 10-M=SM- | Seminar Mat | hematics i | | | le semester in which | | i in the subsequent se | | | |
| SC-161-m01 | ECTS 5 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | S (2) | 1 | | | 1 | 3 | | |
| | | | | ule taught in: Germa | n and/or English | | | | | |
| | Method of as | sessment | | 60 to 120 minutes) | | | | | | |
| | | | Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |
| 10-M=SN- | Seminar in Non-linear | | | | | | | | | |
| LA-161-m01 | ECTS 5 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | graduate | | |
| | Courses | Duratio | S (2) | | Method of grading | numerical grade | Modulilevel | gladuate | | |
| | Courses | | Nodule taught in: German and/or English | | | | | | | |
| | Method of as | sessment | talk (60 to 120 minutes) | | | | | | | |
| | | | Language of assessment: German or English | | | | | | | |
| 10-M=SN- | Cominer in N | um orical A | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |
| MA-161-mo1 | ECTS 5 | Duratio | athematics and Applied Analysis n 1 semester Method of grading numerical grade Modul level graduate | | | | | | | |
| | | Duratio | S (2) | 1 semester | method of grading | numerical grade | Modul level | graduate | | |
| | Courses | | | ule taught in: Germa | n and/or English | | | | | |
| | Method of as | sessment | | 60 to 120 minutes) | | | | | | |
| | | | | uage of assessment | | | | | | |
| | | | Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | | |

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| 10-M=SOP- | Semin | ar in Opf | timizatio | n | | | | | | |
|-------------|----------------------|----------------------|------------|---|---|-------------------|---------------------------|----------------------|----------|--|
| T-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | !S | | S (2) Modu | lle taught in: Germa | n and/or English | | | | |
| | Metho | d of asse | essment | talk (60 to 120 minutes) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester | | | | | | |
| 10-M=S- | Semin | ar in Sta | tistics | | - | | | | | |
| STA-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | !S | | S (2) Modu | lle taught in: Germa | n and/or English | | | | |
| | Method of assessment | | | Langi | 60 to 120 minutes) uage of assessment: ssment offered: In th | | the course is offered and | in the subsequent se | emester | |
| 10-M=ASM- | Stocha | stic Mo | dels of Ri | sk Ma | nagement | | | | | |
| R-161-m01 | ECTS | ECTS 10 Duratio | | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | !S | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AST- | | | | | | | | | | |
| P-161-m01 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | graduate | |
| | Course | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | |
| | Metho | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | |

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| 10-M=A- | Topology | | | | | | | | | |
|-------------|-------------------------|------------------|--|---|------------|-------------------------|------------|-------------|----------|--|
| TOP-161-m01 | ECTS | ECTS 10 Duration | | n | 1 semester | Method of grading numer | ical grade | Modul level | graduate | |
| | Course | S | - | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VV- | Networked Systems | | | | | | | | | |
| SY-161-m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading numer | ical grade | Modul level | graduate | |
| | Course | - | | V (3) + Ü (1) Module taught in: German and/or English | | | | | | |
| | Metho | d of ass | essment | a) written examination (approx. 60 to 90 minutes, usually chosen) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes per candidate) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AVS- | Insurance Mathematics 1 | | | | | | | | | |
| M-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numer | ical grade | Modul level | graduate | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=VVS- | Insurance Mathematics 2 | | | | | | | | | |
| M-161-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numer | ical grade | Modul level | graduate | |
| | Courses | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |

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| 10-M=AZTH-161- | Number Theory | | | | | | | | | |
|------------------|----------------------|----------|-----------|--|-----------------------------------|-----------------------------------|---------------|---------------|--|--|
| m01 | ECTS 10 Duration | | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | | |
| | Courses | S | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method | l of ass | essment | 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) Language of assessment: German or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| 10-M=AZ- | Time Series Analysis | | | | | | | | | |
| RA-212-m01 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | graduate | | |
| | Courses | | | V (4) + Ü (2) Module taught in: German and/or English | | | | | | |
| | Method | l of ass | essment | 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) Language of assessment: German or English Assessment offered: in the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| Modules of Teach | ing Degre | e (Subj | ect Scien | ce) | | | | | | |
| 10-M-AN- | Analytic Geometry | | | | | | | | | |
| GE-152-m01 | ECTS 6 Duratio | | | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (4) + Ü (2) | | | | | | |
| | Method of assessment | | | written examination (approx. 60 to 90 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus | | | | | | |
| | Referred to in LPO I | | | § 51 Nr. 2 | | | | | | |
| 10-M-EL- | Elemen | tary Ge | eometry | | | | | | | |
| GE-152-m01 | ECTS 6 Duratio | | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | | V (4) + Ü (2) | | | | | | |
| | Method of assessment | | | written examination (approx. 60 to 90 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date) and written exercises (approx. 12 exercise sheets, approx. 3 exercises per sheet). | | | | | | |
| | Referred to in LPO I | | | § 51 Nr. 3 | | | | | | |

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| 10-M-EGEL-191- | Elementary | Geometry fo | or Teac | hing Degree (Germa | an Gymnasium) | | | | | |
|----------------|-------------|-------------|----------|--|-----------------------|-------------------------------|-------------------|----------------------------------|--|--|
| m01 | ECTS 10 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (4) - | (4) + Ü (2) | | | | | | |
| | Method of a | assessment | | | pprox. 90 to 180 mini | | | | | |
| | | | b) ora | l examination of on | e candidate each (15 | to 30 minutes) or | | | | |
| | | | l c) ora | l examination in gro | : German and/or Engl | to 15 minutes per candidate) | | | | |
| | | | | able for bonus | | | | | | |
| | Referred to | in LPO I | §731 | Nr. 4 | | | | | | |
| 10-M-ELST-152- | Elementary | Stochastics | ; | | | | | | | |
| m01 | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (3) - | + Ü (1) | | | • | | | |
| | Method of a | assessment | | | rox. 60 to 90 minutes | | | | | |
| | | | | | | | | replaced by an oral examination | | |
| | | | | of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date) and written exercises (approx. 12 exercise sheets, approx. 3 exercises per sheet). | | | | | | |
| | Referred to | in LPO I | § 51 | Nr. 3 | | | | | | |
| 10-M-ELZT-152- | Elementary | Number The | 2ory | | | | | | | |
| m01 | ECTS 6 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (4) - | + Ü (2) | | | • | | | |
| | Method of a | assessment | | | rox. 60 to 90 minutes | | | | | |
| | | | | | | | | replaced by an oral examination | | |
| | | | | | | e sheets, approx. 3 exercises | | s (approx. 15 minutes per candi- | | |
| | Referred to | in LPO I | § 51 | | | | | | | |
| 10-M-GRAN-152- | Basic Analy | /sis | | - | | | | | | |
| m01 | ECTS 12 | Duratio | n | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (4) - | + Ü (2) + V (2) + Ü (2 |) | | | - | | |
| | Method of a | assessment | | | rox. 60 to 120 minute | | | | | |
| | | | | | | | | replaced by an oral examination | | |
| | | | date). | | pprox. 20 minutes) or | an oral examination in groups | s of 2 candidates | s (approx. 15 minutes per candi- | | |
| | | | | able for bonus | | | | | | |
| | Referred to | in LPO I | § 51 l | Nr. 1 | | | | | | |

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| 10-M-GRDG-152- | Basic Di | fferent | ial Equat | ions | | | | 48 | | | |
|------------------|----------|-----------|------------|------------------|---|--------------------------------|-------------------------------------|-----------------|----------------------------------|--|--|
| m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (3) + | + Ü (2) | | | | _ | | |
| | Method | of asse | essment | | | rox. 60 to 90 minutes | | | | | |
| | | | | | | | | | replaced by an oral examination | | |
| | | | | date). | one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- te). | | | | | | |
| | | | | | able for bonus | | | | | | |
| | Referred | l to in L | PO I | § 51 l | Nr. 1 | | | | | | |
| 10-M-GRLA-152- | Basic Li | near Ar | alysis | | | | | | | | |
| m01 | ECTS | 9 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (4) + | + Ü (2) | | | • | | | |
| | Method | ofasse | essment | writte | n examination (app | rox. 60 to 90 minutes | 5) | | | | |
| | | | | lf ann | ounced by the lectu | irer at the beginning o | of the course, the written exami | nation may be | replaced by an oral examination | | |
| | | | | of one date). | | pprox. 20 minutes) or | an oral examination in groups | of 2 candidates | s (approx. 15 minutes per candi- | | |
| | | | | | iate). creditable for bonus | | | | | | |
| | Referred | l to in L | PO I | § 51 l | Nr. 2 | | | | | | |
| 10-M-SCH-152-m01 | School I | Mathen | natics fro | | | | | | | | |
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | | V (2) + | - + Ü (2) | • | | • | | | |
| | Method | ofasse | essment | | (approx. 45 minute | | | | | | |
| | | | | | m paper (10 to 15 pa | | | | | | |
| | | | | | ject work (15 to 25 h | iours) : German and/or Engl | ish | | | | |
| | | | | Asses | sment offered: In th | ie semester in which | the course is offered and in the | e subsequent se | emester | | |
| | Referred | l to in L | PO I | § 22 | l Nr. 1 h) | | | • | | | |
| | | | | § 22 | l Nr. 2 f) | | | | | | |
| | | | | - | l Nr. 3 f) | | | | | | |
| 10-M-STL-191-m01 | | | r | | ee (German Gymna: | | | 1 | | | |
| | ECTS | | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (4) + | | | | | | | |
| | Method | ofasse | essment | a) writ | tten examination (a | pprox. 90 to 180 minu | utes) or | | | | |
| | | | | | | e candidate each (15 | to 30 minutes) or to 15 minutes) or | | | | |
| | | | | Langu | lage of assessment | : German and/or Engl | ish | | | | |
| | | | | | able for bonus | _ | | | | | |
| | Referred | l to in L | PO I | §731 | Nr. 3 | | | | | | |

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| 10-M-M4R-152- | Consolidatio | n of Mathe | matics | (German Realschu | le) | | | |
|---------------------|----------------|-------------|---|---|---------------------------|-------------------------------|-------------|---|
| m01 | ECTS 6 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | V (3) + | + Ü (2) | | | | |
| | Method of as | sessment | | | rox. 60 to 90 minutes | | | |
| | | | | | | | | replaced by an oral examination s (approx. 15 minutes per candi- |
| | | | date). | | ppiox. 20 minutes) of | an orat examination in groups | | approx. 15 minutes per candi- |
| | | | credit | able for bonus | | | | |
| | Referred to in | I LPO I | § 51 S | pecial branch of sci | ience without assignn | nent | | |
| Modules of Teaching | ng Degree (Did | actics) | | | | | | |
| 10-M-DAGS1-152- | Selected Top | ics in Dida | ctics of | Mathematics 1 (Ge | erman Grundschule) | | | |
| m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | | S (2) | | | | | |
| | Method of as | sessment | | k (approx. 45 minut | | | | |
| | | | b) term paper (5 to 10 pages) or c) project (10 to 15 pages) | | | | | |
| | | | Assessment offered: Every two years, winter semester | | | | | |
| | Referred to in | LPO I | | l Nr. 1 h) | | | | |
| 10-M-DAGS2-152- | Selected Top | ics in Dida | ctics of | Mathematics 2 (Ge | erman Grundschule) | | | |
| m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | | S (2) | | | | | |
| | Method of as | sessment | | k (approx. 45 minut | | | | |
| | | | | m paper (5 to 10 pa ject (10 to 15 pages | | | | |
| | | | | | y ry two years, summer | semester | | |
| | Referred to in | LPO I | | I Nr. 1 h) | . <u></u> | | | |
| 10-M-DCMU-152- | Computers in | Mathema | - | | | | | |
| mo1 | ECTS 3 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate |
| | Courses | | V (2) | | | | - | |
| | Method of as | sessment | | ct (10 to 15 pages) | | | | |
| | | | L | | ry two years, winter se | mester | | |
| | Referred to in | I LPO I | | Nr. 2 f) | | | | |
| | | | | l Nr. 1 h) l Nr. 3 f) | | | | |
| | | | 3 2 2 1 | ע כ יייי | | | | |

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| 10-M-VHBDA-152- | Didactics of Al | gebra (vir | tual co | ourse) | | | | | | |
|-----------------|--|------------|--|---|------------------------------|---------------------------------------|----------------|---------------|--|--|
| m01 | ECTS 2 | Duration | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | Ü (2) | | | | | | | |
| | | | Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | | |
| | Method of assessment project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester | | | | | | | | | |
| | Referred to in I | | | I Nr. 1 h), § 22 ll Nr. | - | ster | | | | |
| | Referred to in I | LPUT | | I Nr. 1 ft), § 22 II Nr. I Nr. 3 f) | 21) | | | | | |
| 10-M-VHBDG-152- | Didactics of Ge | eometry (v | virtual | course) | | | | | | |
| m01 | ECTS 2 | Duration | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | Ü (2) Cours | e type: eLearning, n | nostly Virtuelle Hochs | chule Bayern (vhb) | | | | |
| | Method of ass | essment | | ct (web-based, 15 to ssment offered: Onc | e a year, summer sen | nester | | | | |
| | Referred to in I | LPO I | | Nr. 1 h) Nr. 2 f) | | | | | | |
| | | | | I Nr. 3 f) | | | | | | |
| 10-M-DGMS-152- | Didactics of El | ementary | Schoo | l Mathematics for T | eachers at German N | ittelschule and Special Educa | tion | | | |
| m01 | ECTS 2 | Duration | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | | | | | | | |
| | Method of ass | essment | a) tall | k (approx. 45 minute | es) or | | | | | |
| | | | | b) term paper (5 to 10 pages) or c) project (10 to 15 pages) | | | | | | |
| | | | | | y ry two years, winter se | emester | | | | |
| | Referred to in I | PO I | | l Nr. 2 f | ,, | | | | | |
| | | | | I Nr. 1 h | | | | | | |
| 10-M-DGY2-152- | Didactics of M | athematio | s: Alg | ebra (German Gymr | nasium) | | | | | |
| m01 | ECTS 4 | Duratior | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (2) · | + Ü (2) | | | | | | |
| | Method of ass | essment | | | o to 120 minutes) or | | | | | |
| | | | | | e candidate each (ap | | ar condidata) | | | |
| | | | | | : German and/or Engl | candidates, 10 to 15 minutes p ish | per candidate) | | | |
| | | | | able for bonus | | | | | | |
| | Referred to in I | LPO I | §731 | Nr. 6 | | | | | | |

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| Didacti | ics of Ma | athematio | cs: Ana | lysis (German Gym | nasium) | | | | |
|---------|--|---|--|---|--|---|--|--|---|
| ECTS | 4 | Duratio | n | 1 semester | Method of grading | (not) successfully c | ompleted | Modul level | undergraduate |
| Course | S | _ | V + Ü | (no information on | SWS (weekly contact | hours) and course la | anguage ava | ailable) | |
| Methoo | d of asse | essment | a) written examination (approx. 60 to 180 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 45 minutes) or d) written elaboration (approx. 5 to 10 pages) or e) project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course) | | | | | | |
| | | | tive d on to the le sessn ficatio | | | | | | |
| | | | | | daktik | | | | |
| | | ~ | | · · · · | | | 1 . 1 | | |
| | | Duration | | 1 semester | Method of grading | (not) successfully c | ompleted | Modul level | |
| | - | | | | | | | | |
| Method | | | b) ora c) ora Asses | l examination of on l examination in gro sment offered: in th | e candidate each (15 pups (groups of 2, ap | to 20 minutes) or prox. 10 minutes per | candidate) | subsequent se | emester |
| Referre | d to in L | .PO I | § 22 | l Nr. 3 f) | | | | | |
| Didacti | ics of Ma | athematio | cs - Ari | thmetics and Appli | cation of Mathematic | s (German Grundsch | nule) | | |
| ECTS | 7 | Duration | | 2 semester | | numerical grade | | Modul level | undergraduate |
| | - | | • • • | ., ., . | , | | | | |
| | | | b) ora c) wri | l examination in gro tten examination (a | oups (groups of 2, ap | prox. 15 minutes per | | or | |
| | | | - | | | | | | |
| | 1 | 7 | | · · · · · · · · · · · · · · · · · · · | - | | | | |
| | | Duration | | | Method of grading | numerical grade | | Modul level | undergraduate |
| | - | | • • • | | | <u></u> | | | |
| | | | If ann of one date). credit | ounced by the lectu e candidate each (a able for bonus | irer at the beginning | of the course, the wr | | | |
| - | ECTS Course Method other p Oidacti ECTS Course Method Referre Didacti ECTS Course Method Referre Didacti ECTS Course Method | ECTS 4 Courses Method of asse Method of asse other prerequise other prerequise Didactics of Material ECTS 3 Courses Method of asse Method of asse Method of asse Referred to in L Didactics of Material ECTS 7 Courses Method of asse Method of asse Method of asse Referred to in L Didactics of Material ECTS 7 Courses Method of asse Method of asse Method of asse Referred to in L Didactics of Material ECTS 5 Courses Method of asse Method of asse Method of asse | ECTS 4 Duration Courses Method of assessment Method of assessment other prerequisites other prerequisites Duration ECTS 3 Duration Courses Method of assessment Method of assessment Didactics of Mathemation ECTS 3 Duration Courses Method of assessment Referred to in LPO I Didactics of Mathemation ECTS 7 Duration Courses Method of assessment Referred to in LPO I Didactics of Mathemation Referred to in LPO I Duration Courses Method of assessment Referred to in LPO I Didactics of Mathemation ECTS 5 Duration | ECTS4DurationCoursesV + ÜMethod of assessmenta) wri oral e ten el at theother prerequisitesCertai tive d on to the le sessm ficationReferred to in LPO I§ 73 (Didactics of Mathematics: Ana ECTS3ECTS3DurationCoursesV (2)Method of assessmenta) wri b) ora c) ora Asses creditReferred to in LPO I§ 22 IDidactics of Mathematics - Ari ECTS7DurationCoursesCoursesV (2) -Method of assessmenta) ora b) ora c) ora Asses creditReferred to in LPO I§ 22 IDidactics of Mathematics - Ari ECTS7DurationCoursesV (2) -Method of assessmenta) ora b) ora c) wriReferred to in LPO I§ 51 IDidactics of Mathematics - Gere5DurationCoursesCoursesV (2) -Method of assessmenta) ora c) writReferred to in LPO I§ 51 IDidactics of Mathematics - Gere5ECTS5DurationCoursesV (2) -Method of assessmentwritte If ann of one date). credit | ECTS4Duration1 semesterCoursesV + Ü (no information onMethod of assessmenta) written examination in group ten elaboration (approx. at the beginning of the co- oral examination in group ten elaboration (approx. at the beginning of the co- oral examination in group ten elaboration (approx. at the beginning of the co- oral examination in group ten elaboration (approx. at the beginning of the co- oral examination in group ten elaboration (approx. at the beginning of the co- oral examination in group the lecturer will put their sessment in the current of fication for admission toReferred to in LPO I§ 73 (1) 6. Mathematik Di- Didactics of Mathematics: Analytic GeometryECTS3Duration1 semester1 semesterCoursesV (2)Method of assessment a) written examination in group Assessment offered: in the creditable for bonusReferred to in LPO I§ 22 II Nr. 3 f)Didactics of Mathematics - Arithmetics and AppliaECTS7Duration2 semesterCoursesV (2) + Ü (1) + V (2) + Ü (2)Method of assessmenta) oral examination of or b) oral examination in group c) written examination in group | Courses V + Ü (no information on SWS (weekly contact Method of assessment a) written examination (approx. 60 to 180 min oral examination in groups of up to 3 candidat ten elaboration (approx. 5 to 10 pages) or e) p at the beginning of the course) other prerequisites Certain prerequisites must be met to qualify fo tive details at the beginning of the course. Reg on to assessment. If students have obtained t the lecturer will put their registration for asses sessment in the current or in the subsequent s fication for admission to assessment anew. Referred to in LPO I § 73 (1) 6. Mathematik Didaktik Didactics of Mathematics: Analytic Geometry ECTS 3 Duration 1 semester Method of assessment a) written examination (approx. 60 to 90 minu b) oral examination in groups (groups of 2, ap Assessment offered: in the semester in which creditable for bonus Referred to in LPO I § 22 II Nr. 3 f) Didactics of Mathematics - Arithmetics and Application of Mathematic b) oral examination of one candidate each (ap b) oral examination in groups (groups of 2, ap Assessment Referred to in LPO I § 51 I Nr. 4 Didactics of Mathematics - Geometry (German Grundschule) ECTS 5 Duration 1 semester Method of assessment a) oral examination (approx. 60 to 90 minute b) oral examination (approx. 60 to 90 minute b) oral examination (approx. 60 to 120 min Referred to in LPO I | ECTS 4 Duration 1 semester Method of grading (not) successfully of Courses Method of assessment a) written examination (approx. 6o to 180 minutes) or b) oral examination in groups of up to 3 candidates (groups of 2: app ten elaboration (approx. 5 to 10 pages) or e) project assignments (at the beginning of the course) other prerequisites Certain prerequisites must be met to qualify for admission to assessment. If students have obtained the qualification for a the lecturer will put their registration for assessment into effect. St sessment in the current or in the subsequent semester. For assess fication for admission to assessment anew. Referred to in LPO I § 73 (1) 6. Mathematik Didaktik Didactics of Mathematics: Analytic Geometry ECTS 3 Duration 1 semester Method of assessment a) written examination (approx. 6o to 90 minutes, usually chosen) b) oral examination in groups (groups of 2, approx. 10 minutes per Assessment fored: in the semester in which the course is offered: creditable for bonus Referred to in LPO I § 22 II N. 3 f) Didactics of Mathematics - Arithmetics and Application of Mathematics (German Grundsch ECTS 0 a) arite examination in groups (groups of 2, approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or b) oral examination in groups (groups of 2, approx. 30 minutes) or c) oral examination of one candidate each (approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or c) or | ECTS 4 Duration 1 semester Method of grading (not) successfully completed Courses V + Ü (no information on SWS (weekly contact hours) and course language av. Method of assessment a) written examination in groups of up to 3 candidates (groups of z: approx. 30 min ten elaboration (approx. 5 to 10 pages) or e) project assignments (type and examination in groups of up to 3 candidates (groups of z: approx. 30 min ten elaboration (approx. 5 to 10 pages) or e) project assignments (type and exa at the beginning of the course) other prerequisites Certain prerequisites must be met to qualify for admission to assessment. If students have obtained the qualification for atsessesment at a la fication for admission to assessment anew. Referred to in LPO I § 73 (1) 6. Mathematik Didaktik Didactics of Mathematics: Analytic Geometry ECTS 3 Duration b) oral examination in groups (groups of 2, approx. 10 minutes) or c) oral examination of one candidate each (15 to 20 minutes) or c) oral examination in groups (groups of 2, approx. 10 minutes) or b) oral examination in groups (groups of 2, approx. 10 minutes) or b) oral examination in groups (groups of 2, approx. 30 minutes) or b) oral examination in groups (groups of 2, approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or b) oral examination in groups (groups of 2, approx. 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or b) oral examination in groups (groups of 2, approx. 30 minutes) or b) oral examination in groups (grou | ECTS 4 Duration I semester Method of grading (not) successfully completed Modul level Courses V + 0 (no information on SWS (weekly contact hours) and course language available) Method of assessment a) written examination (approx. 6o to 180 minutes) or b) oral examination of one candidate or al examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of ten elaboration (approx. 5 to 10 pages) or e) project assignments (type and expenditure of the table beginning of the course) other prerequisites Certain prerequisites must be met to qualify for admission to assessment. The lecturer will be the irregistration for the course will be considered a dualification for admission to assessment. If sudents have obtained the qualification for admission to assessment into affect. Students who meet all preresessment in the current or in the subsequent semester. For assessment at a later date, studi fication for admission to assessment anew. Referred to in LPO1 § 73 () 6. Mathematik Didaktik Didactics of Mathematics: Analytic Geometry ECTS 3 Duration 1 semester Method of grading (not) successfully completed Modul level Courses V (2) Method of grading (not) successfully completed Modul level Courses V (2) a written examination (approx. 6o to 90 minutes, usually chosen) or b) or al examination in groups (groups of 2, approx. 10 minutes per candidate) Assessment of t |

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| 10-M-DGY2-191- | Didact | ics of M | athematic | cs: Geo | ometry (German Gyn | nnasium) | | | |
|-----------------|---------|------------|-----------|----------|-------------------------|-----------------------|--|-----------------|----------------------------------|
| m01 | ECTS | 4 | Duratior | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Course | 25 | - | V (2) · | + Ü (2) | | | | |
| | Metho | d of ass | essment | | | o to 120 minutes) or | | | |
| | | | I | | | e candidate each (ap | | | |
| | | | | | | German and/or Engl | o 15 minutes per candidate) | | |
| | | | I | | able for bonus | | 1511 | | |
| | Referre | ed to in l | LPO I | § 73 I | Nr. 6 | | | | |
| 10-M-DGMR1-152- | Didact | ics of M | athematic | cs - Ge | ometry (German Mit | telschule/Realschul | e) | | |
| m01 | ECTS | 5 | Duratior | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Course | 25 | | V (2) · | + Ü (2) | | | | |
| | Metho | d of ass | essment | | | rox. 60 to 90 minutes | | _ | |
| | | | I | | | | | | replaced by an oral examination |
| | | | | date). | | oprox. 20 minutes) or | an oral examination in groups | of 2 candidates | s (approx. 15 minutes per candi- |
| | | | I | | able for bonus | | | | |
| | Referre | ed to in l | LPO I | § 51 | Nr. 4 | | | | |
| 10-M-DGY- | Didact | ics of M | athematic | cs: Sto | chastics | | | | |
| STO-232-m01 | ECTS | 3 | Duratior | n | 1 semester | Method of grading | (not) successfully completed | Modul level | |
| | Course | 25 | | V (2) | | | | | |
| | Metho | d of ass | essment | | | | tes, usually chosen) or | | |
| | | | | | | e candidate each (15 | to 20 minutes) or prox. 10 minutes per candidate) | | |
| | | | | | | | the course is offered and in the | | emester |
| | | | I | | able for bonus | | | subsequentise | |
| | Referre | ed to in l | LPO I | § 22 | I Nr. 3 f) | | | | |
| 10-M-DGMR2-152- | Didact | ics of M | athematic | cs - Sto | chastics and Algeb | ra (German Mittelsch | ule/Realschule) | | |
| m01 | ECTS | 7 | Duratior | n | 2 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Course | es | | V (2) · | + Ü (1) + V (2) + Ü (2) | | | | |
| | Metho | d of ass | essment | | | e candidate each (ap | | | |
| | | | | | | | prox. 15 minutes per candidate) |) or | |
| | Deferre | | | · · | tten examination (6) | o to 120 minutes) | | | |
| 1 | Referre | ed to in l | | § 51 l | Nr. 4 | | | | |

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| 10-M-VHBDST-191- | Didactio | cs of St | ochastics | s (virtual course) | | | | | | |
|-----------------------|----------------------|-------------------------|------------------|---|---|------------------------|------------------------------|-------------|---------------|--|
| m01 | ECTS | 2 | Duratio | 1 | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Courses | 5 | | Ü (2) | | | | | | |
| | Method of assessment | | | project (web-based, 15 to 20 hours) | | | | | | |
| | | | | Assessment offered: Once a year, winter semester | | | | | | |
| | Referred to in LPO I | | | | Other: E-Learning, Vhb | | | | | |
| | | | - | - | § 22 II Nr. 3 f) | | | | | |
| 10-M-PRM1-152- m01 | | | | | Mathematics 1 semester Method of grading (not) successfully completed Modul level undergraduate | | | | | |
| mor | | 3 | Duratio | | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Courses | - | | S (2) | | | | | _ | |
| | Method of assessment | | | | ct (10 to 15 pages) ssment offered: Ever | y two years, winter se | mester | | | |
| | Referred to in LPO I | | | Nr. 2 f Nr. 3 f) | | | | | | |
| 10-M- | Fundam | entals | of Applie | d Univ | I University Mathematics (virtual course) | | | | | |
| VHBGAH-232-mo1 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | | |
| | Courses | | Ü (4) | | | | | | | |
| | | | | Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | |
| | Method of assessment | | proje | ct (web-based, 15 to | 20 hours) | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 f) | | | | | | | |
| 10-M-VHBA- | Basics i | i <mark>n Arit</mark> h | metics (v | irtual course) | | | | | | |
| ri-152-m01 | ECTS | 2 | Duration | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | |
| | Courses | | | Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | |
| | Method | ofass | essment | project (web-based, 15 to 20 hours) | | | | | | |
| | | | | Assessment offered: Once a year, winter semester | | | | | | |
| | Referred | d to in l | PO I | § 22 Nr. 1 h) | | | | | | |
| | | | | § 22 II Nr. 2 f) | | | | | | |
| 10-M-VH- | Pacies | ofMath | omatica | § 22 II Nr. 3 f) | | | | | | |
| BAuG-152-mo1 | r | 2 | Duratio | - | ür German Grundschule 1: Arithmetics and Orders of Magnitude (virtual course) 1 semester Method of grading (not) successfully completed Modul level undergraduate | | | | | |
| | Courses | | Duration | | 1 semester | Method of grading | | Modul level | undergraduate | |
| | Courses | > | _ | Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | |
| | Method of assessment | | | ct (web-based, 15 to ssment offered: Once | 20 hours) e a year, winter semes | ster | | | | |
| | Referred | d to in l | PO I | § 22 | l Nr. 1 h) | | | | | |

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| 10-M-VHBGuS-152- | Basics | asics of Mathematics für German Grundschule 2: Geometry and Stochastics (virtual course) | | | | | | | | |
|-------------------------|----------------------|--|------------------|--|---------------------------|---------------------------------------|----------------------------|---------------|---------------|--|
| m01 | ECTS | 2 | Duration | n | 1 semester | Method of grading (no | ot) successfully completed | Modul level | undergraduate | |
| | Course | S | | Ü (2) | | | | | | |
| | | | | | nostly Virtuelle Hochschu | ule Bayern (vhb) | | | | |
| | Method of assessment | | | | ct (web-based, 15 to | | | | | |
| | D (| | | | | e a year, summer semest | ter | | | |
| | | d to in L | | - | l Nr. 1 h) | | | | | |
| 10-M-VHBGeo-152- mo1 | | | | | tual course) | | <u> </u> | 1 | | |
| 11101 | | 2 | Duration | | 1 semester | Method of grading (no | ot) successfully completed | Modul level | undergraduate | |
| | Course | S | | Ü (2) | | • • • • • • • • • • • • • • • • • • • | ula Davarra (ulab) | | | |
| | | | | | | nostly Virtuelle Hochschu | ule Bayern (Vhb) | | | |
| | Method | d of asse | essment | | ct (web-based, 15 to | 20 nours) e a year, summer semest | ter | | | |
| | Referred to in LPO I | | | | | - year, summer semes | | | | |
| | | | | § 22 II Nr. 1 h) § 22 II Nr. 2 f) | | | | | | |
| | | | § 22 Nr. 3 f) | | | | | | | |
| 10-M-VHBMa1-152- | Mather | natics 1 | (virtual c | ourse) | | | | | | |
| m01 | ECTS 2 Duration | | n | 1 semester | Method of grading (no | ot) successfully completed | Modul level | undergraduate | | |
| | Course | S | | Ü (2) | | | | | | |
| | | | | Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | |
| | Method of assessment | | essment | | | | | | | |
| | | | | Assessment offered: Every two years, winter semester | | | | | | |
| | Referre | d to in L | POT | § 22 Nr. 1 h) § 22 Nr. 2 f) | | | | | | |
| | | | | § 22 II NI. 2 I) § 22 II Nr. 3 f) | | | | | | |
| 10-M- | Mather | natics 2 | (virtual o | - | | | | | | |
| VHBMa2-152-mo1 | | 2 | Duration | | 1 semester | Method of grading (no | ot) successfully completed | Modul level | undergraduate | |
| | Course | s | | Ü (2) | | | | | | |
| | | - | | | e type: eLearning, m | nostly Virtuelle Hochschu | ule Bayern (vhb) | | | |
| | Method | d of asse | essment | proje | ct (web-based, 15 to | 20 hours) | | | | |
| | | | | Asses | sment offered: Ever | y two years, summer sen | nester | | | |
| | Referre | d to in L | PO I | | l Nr. 1 h) | | | | | |
| | | | | | I Nr. 2 f) | | | | | |
| | | | | § 22 Nr. 3 f) | | | | | | |

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| 10-M- | Mathe | matics 3 | (virtual o | course |) | | | | | |
|----------------|----------------------|---------------------------------------|-------------|--|--|------------------------|---------------------------------|-----------------|----------------------------------|--|
| VHBMa3-232-mo1 | ECTS | 3 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | | |
| | Courses | | | Ü (2) | • | • | | • | | |
| | | | | Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | |
| | Method of assessment | | | project (web-based, 15 to 20 hours) | | | | | | |
| | | | | Assessment offered: Every two years, winter semester | | | | | | |
| | | ed to in l | | - | § 22 Nr. 3 f) | | | | | |
| 10-M- | | matics 4 | (virtual o | | | | | | | |
| VHBMa4-232-mo1 | ECTS | 3 | Duratio | | 1 semester | Method of grading | (not) successfully completed | Modul level | | |
| | Courses | | | Ü (2) | | | | | | |
| | | | | | | mostly Virtuelle Hochs | schule Bayern (vhb) | | | |
| | Method of assessment | | | | ct (web-based, 15 to | | amostor | | | |
| | Referred to in LPO I | | | | Assessment offered: Every two years, winter semester § 22 II Nr. 3 f) | | | | | |
| | | | - | | _ | | | | | |
| 10-M-MGS1-152- | | · · · · · · · · · · · · · · · · · · · | | | Ischule - Arithmetio | | | | | |
| m01 | | 5 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Course | - | | | V (2) + Ü (2) | | | | | |
| | Metho | d of ass | essment | | | | | | | |
| | | | | If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi | | | | | | |
| | | | | date). | | approx. 20 minutes) of | an oral examination in groups | of 2 canuluates | s (approx. 15 minutes per canui- | |
| | | | | | able for bonus | | | | | |
| | Referre | d to in l | PO I | § 36 I | Nr. 7 | | | | | |
| 10-M-MGS2-152- | Mathe | matics i | n German | Grund | schule - Geometry | and Application of M | athematics | | | |
| m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Course | S | | V (2) · | + Ü (2) | • | | • | | |
| | Metho | d of ass | essment | writte | n examination (app | prox. 60 to 90 minutes | 5) | | | |
| | | | | | | | | | replaced by an oral examination | |
| | | | | | | approx. 20 minutes) o | r an oral examination in groups | of 2 candidates | s (approx. 15 minutes per candi- | |
| | | | | date). | | | | | | |
| | | | DO 1 | | able for bonus | | | | | |
| | Referred to in LPO I | | | | Nr. 7 | | | | | |

| 10-M-MM2-152- | Mathematics in | n German | Mittelschule - Algebra | | | | | | |
|---------------|--|----------|---|---|---|---|----------------------------------|--|--|
| m01 | ECTS 5 | Duration | า | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | V (2) - | + Ü (2) | - | | • | | |
| | Method of asse | essment | written examination (approx. 60 to 90 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for tea- ching-degree programmes) | | | | | | |
| | Referred to in L | PO I | - | § 38 Nr. 1 | | | | | |
| 10-M-MM4-152- | Mathematics in | n German | Mittel | schule - Applicatior | n-oriented Teaching a | and Stochastics | | | |
| m01 | ECTS 5 | Duration | า | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | V (2) - | - + Ü (2) | | | • | | |
| | Method of asse | | If ann of one date). Langu ching | written examination (approx. 60 to 90 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for tea- ching-degree programmes) | | | | | |
| | Referred to in L | PO I | § 38 I | Nr. 1 | | | | | |
| 10-M-MM1-152- | Mathematics in German Mittelschule - Arithmetics | | | | | | | | |
| m01 | ECTS 5 Duration | | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | V (2) - | | | | | | |
| | | | written examination (approx. 60 to 90 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exam of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per date). Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations fo ching-degree programmes) | | | | s (approx. 15 minutes per candi- | | |
| | Referred to in L | PO I | § 38 I | Nr. 1 | | | | | |
| 10-M-MM3-152- | | n German | Mittel | schule - Geometry | | | | | |
| m01 | ECTS 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | |
| | Courses | | V (2) - | | | | | | |
| | Method of assessment | | lf ann of one date). Langu | ounced by the lectu e candidate each (ap | oprox. 20 minutes) or German; exceptions | of the course, the written exa r an oral examination in grou | os of 2 candidates | replaced by an oral examination s (approx. 15 minutes per candi- camination regulations for tea- | |
| | Referred to in L | PO I | § 38 I | Nr. 1 | | | | | |

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| 10-M-VHBM10-152- | Mathematics in | thematics in grade 10 (virtual course) | | | | | | | | |
|--------------------|------------------|--|---|--|-------------------------------|------------------------------------|-----------------------|--------------------------|--------------|--|
| m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | Ü (2) | | | | | | | |
| | | | Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | | |
| | Method of asse | essment | project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester | | | | | | | |
| | Referred to in L | PO I | | § 22 Nr. 1 h) | | | | | | |
| | | | | I Nr. 2 f) I Nr. 3 f) | | | | | | |
| 10-M-VHBMM-232- | Mathematical | Modellin | g (virtu | al course) | | | | | | |
| m01 | ECTS 3 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | | | |
| | Courses | _ | Ü (2) Cours | e type: el earning | mostly Virtuelle Hoch | schule Bayern (yhh) | | | | |
| | Method of asse | essment | | ct (web-based, 15 to | | | | | | |
| | Referred to in L | _ | · · | I Nr. 3 f) | | | | | | |
| 10-M-MMMG1-152- | | | - | | German Grundschule |) | | | | |
| m01 | ECTS 3 | Duratio | | 1 semester | | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | l | | | 1 | | | |
| | Method of asse | essment | a) tall | k (approx. 45 minut | es) or | | | | | |
| | | | b) term paper (5 to 10 pages) or c) project (10 to 15 pages) | | | | | | | |
| | | | | Assessment offered: Every two years, winter semester | | | | | | |
| | Referred to in L | POI | | I Nr. 1 h) | | | | | | |
| 10-M-MMMG2-152- | Methods and M | Nedia in 1 | - | | German Grundschule | | | | | |
| mo1 | ECTS 3 | Duratio | | 1 semester | | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | • | • | • | • | | | |
| | Method of asse | essment | a) talk (approx. 45 minutes) or | | | | | | | |
| | | | b) term paper (5 to 10 pages) or | | | | | | | |
| | | | c) project (10 to 15 pages) Assessment offered: Every two years, summer semester | | | | | | | |
| | Referred to in L | POI | | I Nr. 1 h) | ,, | | | | | |
| 10-M-DMGS1-152- | Methodology o | of Teachi | - | athematics 1 (Gern | nan Grundschule) | | | | | |
| m01 | ECTS 3 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | | 1 | | | | | |
| | Method of asse | essment | | k (approx. 45 minut | | | | | | |
| | | | | m paper (5 to 10 pa | | | | | | |
| | | | C) pro Asses | ject (10 to 15 pages sment offered: Eve | s) ery two years, winter s | emester | | | | |
| | Referred to in L | PO I | | I Nr. 1 h) | | | | | | |
| Mathematics (acco) | | | <u> </u> | , | - | MILWürzburge separated and New se | | | nago (= / | |
| Mathematics (2023) | | | | | | JMU Würzburg • generated 28-Nov-20 | 024 • exam. reg. data | iecolu AA[105]-]-[H]2023 | page 47 / 52 | |

| 10-M-DMMS1-152- | - Methodology of Teaching in Mathematics 1 (German Mittelschule) | | | | | | | | |
|---------------------|--|------------|---|---|-------------------------|-----------------------------|-------------|---------------|--|
| m01 | ECTS 3 | Duratio | n | 1 semester | Method of grading (| not) successfully completed | Modul level | undergraduate | |
| | Courses | _ | S (2) | | | | | | |
| | Method of asse | essment | | k (approx. 45 minute | | | | | |
| | | | | n paper (5 to 10 pag | | | | | |
| | | | c) project (10 to 15 pages) Assessment offered: Every two years, winter semester | | | | | | |
| | Referred to in L | .PO I | | § 22 ll Nr. 1 h) | | | | | |
| 10-M-DMGS2-152- | Methodology o | of Teachir | - | athematics 2 (Germ | an Grundschule) | | | - | |
| m01 | ECTS 3 | Duratio | n | 1 semester | Method of grading (| not) successfully completed | Modul level | undergraduate | |
| | Courses | | S (2) | | | | • | | |
| | Method of asse | essment | a) talk | (approx. 45 minute | es) or | | | | |
| | | | | n paper (5 to 10 pag | | | | | |
| | | | | ject (10 to 15 pages) sment offered: Even | y two years, summer se | emester | | | |
| | Referred to in LPO I | | | Nr. 1 h) | y two years, summer se | | | | |
| 10-M-DMMS2-152- | | | Ŭ | athematics 2 (Germ | an Mittelschule) | | | | |
| | ECTS 3 Duratio | | | 1 semester | | not) successfully completed | Modul level | undergraduate | |
| | Courses | J | S (2) | | | | | , , | |
| | Method of asse | essment | | | | | | | |
| | | | b) term paper (5 to 10 pages) or | | | | | | |
| | | | | c) project (10 to 15 pages) Assessment offered: Every two years, summer semester | | | | | |
| | Referred to in LPO I | | § 22 Nr. 1 h) | | | | | | |
| 10-M-DMRS-152- | | - | g in Mathematics (German Realschule) | | | | | | |
| m01 | ECTS 3 | Duratio | | 1 semester | | not) successfully completed | Modul level | undergraduate | |
| | Courses | <u> </u> | S (2) | | | | | | |
| | Method of asse | essment | a) talk (approx. 45 minutes) or | | | | | | |
| | | | b) term paper (5 to 10 pages) or | | | | | | |
| | | | | ject (10 to 15 pages) | y two years, winter sem | aastar | | | |
| | Referred to in L | | | Nr. 2 f | y two years, winter sen | liestei | | _ | |
| 10-M-PRA-152-m01 | | | U | | | | | | |
| 10-10-1 10-152-1101 | ECTS 3 | Duratio | | 1 semester | Method of grading (| not) successfully completed | Modul level | undergraduate | |
| | Courses | Duration | S (2) | 1 Semester | | not) successfully completed | Modulievei | | |
| | Method of asse | essment | • • • | t. drawing un a proi | ect plan (10 to 15 page |)) | | | |
| | method of usso | cosment | project: drawing up a project plan (10 to 15 pages) Assessment offered: Every two years, summer semester | | | | | | |
| | Referred to in L | .PO I | § 22 II Nr. 3 f) | | | | | | |

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| 10-M-PRM2-152- | Practical Cour | Practical Course Hands-on Mathematics | | | | | | | | |
|------------------|----------------------|---------------------------------------|---|---|--|---------------|--|--|--|--|
| m01 | ECTS 3 | Duratio | n | 1 semester | Method of grading (not) successfully completed Modul level | undergraduate | | | | |
| | Courses | | P (2) | | · · · | | | | | |
| | Method of ass | essment | | project: drawing up a project plan (5 to 10 pages) and practical implementation with pupils | | | | | | |
| | | | Assessment offered: Every two years, summer semester | | | | | | | |
| | Referred to in | LPO I | | § 22 Nr. 2 f § 22 Nr. 3 f) | | | | | | |
| 10-M-VHBDAL-191- | School Mathe | matics fro | | - | iew: Algebra online (virtual course) | | | | | |
| m01 | ECTS 2 | Duratio | | 1 semester | Method of grading (not) successfully completed Modul level | undergraduate | | | | |
| | Courses | Duratio | Ü (2) | 1 Semester | method of grading (not) successfully completed modul level | undergraduate | | | | |
| | Method of ass | essment | | ct (web-based, 15 t | o zo hours) | | | | | |
| | | essment | Asses | ssment offered: On | ce a year, winter semester | | | | | |
| | | | Other | : E-Learning, Vhb | | | | | | |
| | Referred to in | - | - | l Nr. 3 f) | | | | | | |
| - | | matics fro | om a Di | dactical Point of V | iew: Analysis online (virtual course) | | | | | |
| m01 | ECTS 2 | Duratio | | 1 semester | Method of grading (not) successfully completed Modul level | undergraduate | | | | |
| | Courses | | Ü (2) | | | | | | | |
| | Method of ass | essment | | | | | | | | |
| | | | | Assessment offered: Once a year, winter semester Other: E-Learning, Vhb | | | | | | |
| | Referred to in LPO I | | | § 22 Nr. 3 f) | | | | | | |
| 10-M-VHBDG-191- | | | m a Didactical Point of View: Geometry online (virtual course) | | | | | | | |
| m01 | ECTS 2 | Duratio | | 1 semester | Method of grading (not) successfully completed Modul level | undergraduate | | | | |
| | Courses | | Ü (2) | | | | | | | |
| | Method of ass | essment | | | | | | | | |
| | | | Assessment offered: Once a year, summer semester | | | | | | | |
| | | | Other: E-Learning, Vhb | | | | | | | |
| | Referred to in | - | | § 22 II Nr. 3 f) | | | | | | |
| 10-M-VH- | | - | | I (virtual course) | | | | | | |
| BSto-152-m01 | ECTS 2 | Duratio | | 1 semester | Method of grading (not) successfully completed Modul level | undergraduate | | | | |
| | Courses | | Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | | |
| | Method of assessment | | | ct (web-based, 15 t | | | | | | |
| | Method of ass | essment | | | ce a year, winter semester | | | | | |
| | Referred to in | LPO I | | l Nr. 1 h) | · · | | | | | |
| | | | | § 22 Nr. 2 f) | | | | | | |
| | | | § 22 II Nr. 3 f) | | | | | | | |

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| 10-M-DVMS1-152- | Advanced Didactics of Mathematics 1 (German Mittelschule) | | | | | | | | | |
|--------------------|---|-------------------|--|---|--------------------|-----------------------------------|-----------------------|--------------------------|--------------|--|
| m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | _ | S (2) | - | | | | | | |
| | Method of assessment | | a) talk (approx. 45 minutes) or b) term paper (5 to 10 pages) or c) project (10 to 15 pages) Assessment offered: Every two years, winter semester | | | | | | | |
| | Referred to in LPO I | | § 22 | § 22 Nr. 1 h) | | | | | | |
| 10-M-DVMS2-152- | Advanced Dida | ctics of N | N athen | natics 2 (German N | littelschule) | | | 1 | | |
| m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | 5 (2) | | | | | | |
| | Method of assessment | | a) talk (approx. 45 minutes) or b) term paper (5 to 10 pages) or c) project (10 to 15 pages) Assessment offered: Every two years, summer semester | | | | | | | |
| | Referred to in LPO I | | § 22 | I Nr. 1 h) | | | | | | |
| 10-M-DV- | | ctics of N | Aathematics (German Gymnasium) | | | | | | | |
| GY-191-m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | |
| | Courses | | S (2) | | | | | | | |
| | Method of assessment | | talk (approx. 60 minutes) Language of assessment: German Assessment offered: Once a year, summer term | | | | | | | |
| | Referred to in L | PO I | § 22 | I Nr. 3 f) | | | | | | |
| 10-M-VHBZ- | Accesses to the Foundations of Analysis (virtual course) | | | | | | | | | |
| GA-232-m01 | ECTS 2 | Duratio | n | 1 semester | Method of grading | (not) successfully completed | Modul level | | | |
| | Courses | | Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb) | | | | | | | |
| | Method of assessment | | project (web-based, 15 to 20 hours) | | | | | | | |
| | Referred to in LPO I | | § 22 II Nr. 3 f) | | | | | | | |
| Modules on Mathe | matics for other | Subjects | 5 | | | | | | | |
| 10-M-MWW1-212- | Differential Ca | lculus for | Econo | mics and Manager | nent | | | | | |
| m01 | ECTS 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | - | V (2) · | + T (2) | , | | | - | | |
| | Method of asse | essment | writte | written examination (approx. 120 minutes) | | | | | | |
| 10-M-MWW2-212- | Linear Algebra for Economics and Management | | | | | | | | | |
| m01 | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | V (2) + T (2) | | | | | | | |
| | Method of asse | essment | writte | n examination (ap | prox. 120 minutes) | | | | | |
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| 10-M-INF1-152-m01 | Mathem | Mathematics 1 for students in Computer Science | | | | | | | | | | |
|--------------------|---|--|-----------|--|---|-------------------|----------------------------------|------------------------|--------------------------|--------------|--|--|
| | ECTS 10 Duration | | | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | ; | | V (4) + Ü (2) Module taught in: Ü: German or English | | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| 10-M-PHY1-212- | Mathematics 1 for Students of Physics and Quantum Technology | | | | | | | | | | | |
| m01 | ECTS 8 Duration | | | า | 1 semester Method of grading numerical grade Modul level undergra | | | | | | | |
| | Courses | | | V (5) + Ü (2) Excercises in: German or English | | | | | | | | |
| | Method | of ass | essment | a) written examination (Usually chosen, approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| 10-M-INF2-152- | Mathematics 2 for students in Computer Science | | | | | | | | | | | |
| m01 | ECTS | 10 | Duratio | า | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | 5 | | V (4) + Ü (2) Module taught in: Ü: German or English | | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| 10-M-PHY2-212- | Mathem | natics 2 | ofor Stud | ents o | f Physics and Quant | um Technology | | | | | | |
| m01 | ECTS | 8 | Duratio | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | | | V (5) + Ü (2) Excercises in: German or English | | | | | | | | |
| | Method of assessment | | | a) written examination (Usually chosen, approx. 90 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| 10-M-MCH-172- | Mathematics for students in Chemistry and Biochemistry | | | | | | | | | | | |
| m01 | ECTS 5 Duratio | | | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | | | V (3) + Ü (2) | | | | | | | | |
| | Method | of ass | essment | written examination (approx. 90 to 120 minutes) and written exercises (approx. 25) | | | | | | | | |
| | Mathematics (2023) JMU Würzburg • generated 28-Nov-2024 • exam. reg. data record XA 105 - - H 2023 page 51 / 52 | | | | | | | | | | | |
| Mathematics (2023) | | | | | | | JMU Wurzburg • generated 28-Nov- | 2024 • exam. reg. data | record XA 105 - - H 2023 | page 51 / 52 | | |

| thematics (2023) | JMU Würzburg • generated 28-Nov-2024 • exam. reg. data record XA 105 - - H 2023 | page 51 / 52 |
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| 10-M-MCB-152- m01 | Mathematics for students in Chemistry and Biology | | | | | | | | | | |
|----------------------|--|-----------|---------------|--|-------------------|-------------------|-----------------|---------------|---------------|--|--|
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | Courses | | | V (3) + Ü (2) | | | | | | |
| | Metho | d of asse | essment | written examination (approx. 90 to 120 minutes) and written exercises (approx. 25) | | | | | | | |
| | Additio | onal Info | rmation | Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebens- mittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter f) of Annex 1 of APOLmCh. | | | | | | | |
| 10-M-STAB-152- | Statist | ics for S | tudents o | of natural sciences and biomedicine | | | | | | | |
| m01 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | V (2) + Ü (2) | | | | | | | |
| | Method of assessment written examination (90 to 120 minutes) | | | | | | | | | | |
| 10-M-KIDS3-222- | Mathematics for Artificial Intelligence and Data Science 3 | | | | | | | | | | |
| mo1 | ECTS 5 Duratio | | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (2) + Ü (1) | | | | | | | | |
| | Method of assessment | | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus | | | | | | | |