### Module title
Discrete Mathematics

### Abbreviation
10-M=VDIM-161-m01

### Module coordinator
Dean of Studies Mathematik (Mathematics)

### Module offered by
Institute of Mathematics

### ECTS
5

### Method of grading
 numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
graduate

### Other prerequisites
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### Contents
Advanced methods and results in a selected field of discrete mathematics (e.g. coding theory, cryptography, graph theory or combinatorics)

### Intended learning outcomes
The student is acquainted with advanced results in a selected topic in discrete mathematics.

### Courses
(type, number of weekly contact hours, language — if other than German)
V (3) + Ü (1)
Module taught in: German and/or English

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
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)
Assessment offered: In the semester in which the course is offered and in the subsequent semester
Language of assessment: German or English
creditable for bonus

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)
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### Module appears in
- Master's degree (1 major) Mathematics (2016)
- Master's degree (1 major) Physics (2016)
- Master's degree (1 major) Nanostructure Technology (2016)
- Master's degree (1 major) Economathematics (2016)
- Master's degree (1 major) Mathematical Physics (2016)
- Master's degree (1 major) Mathematics (2019)
- Master's degree (1 major) Nanostructure Technology (2020)
- Master's degree (1 major) Physics (2020)
- Master's degree (1 major) Mathematical Physics (2020)
- Master's degree (1 major) Quantum Technology (2021)
- Master's degree (1 major) Economathematics (2021)