Module title | Introduction to Elementary Number Theory (virtual course) | Abbreviation | 10-M-VHBZth-191-m01
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Module coordinator | Dean of Studies Mathematics (Mathematics) | Module offered by | Institute of Mathematics
ECTS | 3 | Method of grading | (not) successfully completed
Duration | 1 semester | Other prerequisites | --
Contents | The course gives a brief introduction to mathematical working techniques (propositional logic, sets, definitions, proofs), introduces the different number domains, discusses elementary divisibility properties of the integers (including modular arithmetic) and introduces continued fractions and their approximation properties.
Intended learning outcomes | The students get acquainted with the mathematical language, apply easy deduction techniques to elementary number theoretic questions, and get a first impression of the multifarious applications.
Courses (type, number of weekly contact hours, language — if other than German) | Ü (2)
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) | project (web-based, 15 to 20 hours)
Assessment offered: Once a year, winter semester
Other: E-Learning, Vhb
Allocation of places | --
Additional information | --
Referred to in LPO I (examination regulations for teaching-degree programmes) | § 22 II Nr. 3 f
Module appears in | First state examination for the teaching degree Gymnasium Mathematics (2019)