

Module description

Module title					Abbreviation
Overview Projective Geometry and Number Theory					10-M-PGZT-Ü-152-m01
Module coordinator				Module offered by	
Dean of Studies Mathematik (Mathematics)				Institute of Mathematics	
ECTS	Meth	od of grading	Only after succ. con	ıpl. of module(s)	
12	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Conter	nts				
jective and pr residu	spaces	s, dualities and polaritie mber factorisation, mod rings, theory of quadrat	s of projective spaces ular arithmetics, prime	; elementary propert e tests and methods	s, fundamental theorems for pro- cies of divisibility, prime numbers for factorisation, structure of the ne approximation and diophanti-
Intend	ed lear	ning outcomes			
The stu	udent is	acquainted with funda	•		theory and projective geometry.

Courses (type, number of weekly contact hours, language - if other than German)

borders of different branches in mathematics.

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Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

oral examination of one candidate each (20 to 40 minutes)

Assessment will have reference to two topics in pure mathematics as agreed upon with the examiner. Each topic may only be selected as the subject of one examination in the sub-fields Gesamtüberblick (Overview). Language of assessment: German and/or English

Allocation of places

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Additional information

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Workload

360 h

Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor' degree (1 major) Mathematics (2015)

Bachelor' degree (1 major) Computational Mathematics (2015)

Bachelor' degree (1 major) Mathematics (2023)

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