

Module title					Abbreviation
Mathematical Imaging 10-M=VMBV-102-m01					
Module coordinator				Module offered by	
Dean of Studies Mathematik (Mathema			atics) Institute of Mathematics		
ECTS Method of grading		Only after succ. compl. of module(s)			
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester graduate		Registration for the exercise must be made via SB@home at the begin- ning of the course or as announced by the lecturer in accordance 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 details at the beginning of the course. Registration for the exercise will be considered a declaration of will to seek admission to as- sessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their re- gistration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent seme- ster. For assessment at a later date, students will have to obtain the qua- lification for admission to assessment anew.			
Contents Mathematical fundamentals of image processing and computer vision such as elementary projective geometry,					
ra pictures; algorithms; module might also include an introduction to geometric methods and tomography. Recommended previous knowledge: Basic knowledge of functional analysis, such as that taught in the module "Functional Analysis", is recommen- ded.					
Intended learning outcomes					
The student masters the mathematical methods in the theory of image processing and knows about their main fields of application.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + Ü (no information on SWS (weekly contact hours) and course language available)					
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
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 exami- nation in groups (groups of 2, approx. 20 minutes) Language of assessment: German, English					
Allocation of places					
Additional information					
Workload					
Teaching cycle					

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

## Module appears in

Master's degree (1 major) Mathematics (2012) Master's degree (1 major) Mathematics (2010) Master's degree (1 major) Mathematical Physics (2012) Master's degree (1 major) Computational Mathematics (2012)

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