Valid from 2024.HS

Module description: Numerics

Module Code	t.BA.XXM3.NUM.19HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	IAMP
Module Coordinator	Flavio De Lorenzi
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.
Module Characteristic	Type 3a 2 lecture lessons per semester week and class+ 2 lab bi-weekly lessons per semester and half-class
Module Description	This class gives an introduction to the theory and algorithms of numerical mathematics.
Module Content	**Computer-Arithmetic** **Linear Equations** **Approximation** **Nonlinear Equations** **Interpolation** **Linear Regression** **Numerical Integration** **Ordinary Differential Equations**
Prerequisite Knowledge	none

Learning Objectives (Competences)

Students...	Competencies	Taxonomies
Algorithms for problem solving	F	K2
Algorithm implementation	F	K3
Abstraction as a tool	M	K2
Introduction to numerical thinking	M	K1

Performance Assessment

End-of-module exam	Assessment	Length (min.)	Weighting	Form
written exam	Grade	90	100	acc. to module agreement

Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
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Classroom Attendance Requirement	None

Module description: Numerics	
Learning material	• Handouts • Exercises • Computer programs
Comments	