

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	<ul style="list-style-type: none"> • Linear algebra • Analysis 					
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	80	acc. to module agreement	
	Performance assessment during the semester		Assessment	Length (min.)	Weighting	Form
	Practical exercises <i>at least one assessment</i>		Grade		20	acc. to module agreement
	Classroom Attendance Requirement					
	None					

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Learning material	<ul style="list-style-type: none">• Handouts• Exercises• Computer programs
Comments	