

<b>Module Name</b> Visual Analytics						
<b>Type of Module</b> Advanced Module				<b>Module Code</b> AM-VA		
<b>Identification Number</b>	<b>Workload</b>	<b>Credit Points</b>	<b>Term</b>	<b>Offered Every</b>	<b>Start</b>	<b>Duration</b>
MSc-I-VA	270 Hours	9 CP	1. – 3. Semester	SuSe	Summer term only	1 Semester
<b>1</b>	<b>Course Types</b>		<b>Contact Time</b>		<b>Private Study</b>	
	a) Lecture		60 h		120 h	
	b) Exercise		30 h		60 h	
<b>2</b>	<b>Module Objectives and Skills to be Acquired</b>					
	understand advanced, specialized theories / methods in the field of visual analytics					
	analyze real issues and challenges in the field of visual analytics					
	collect and analyze data using quantitative / qualitative methods for selected scientific questions.					
	justify and defend (independently developed) positions or solutions to problems.					
<b>3</b>	<b>Module Content</b>					
	The lecture deals with the visual analysis of large and complex data sets. In the lecture, selected topics from the areas of visualization, interaction, human perception, data analysis and their combination for solving application-oriented problems are dealt with. Basic methods and their practical examples as well as applications and current research approaches will be presented.					
	Visual analysis can be used for exploration, analysis and communication of in reports, presentations, or online. Applications include finance, economics, geosciences, meteorology, medicine, biology, transportation, or sports.					
	In the exercises to the lecture the lecture material is deepened. Exercises are discussed under the guidance of a tutor. In addition to deepening the subject knowledge, the exercises can also serve to acquire communication and presentation skills.					
<b>4</b>	<b>Teaching Methods</b>					
	Lecture, Exercise					
<b>5</b>	<b>Prerequisites (for the Module)</b>					
	Formally: None					
	Regarding the contents: Visualization, Software Engineering, Statistics					
<b>6</b>	<b>Type of Examination</b>					
	Exam, e-Exam					
<b>7</b>	<b>Credits Awarded</b>					
	Passing the final exam					
<b>8</b>	<b>Compatibility with other Curricula</b>					
	Wirtschaftsinformatik, Wirtschaftsmathematik, Mathematik					

<b>9</b>	<b>Proportion of Final Grade</b> 9/114
<b>10</b>	<b>Module Coordinator</b> Prof. Dr.-Ing. Tatiana Landesberger von Antburg
<b>11</b>	<b>Further Information</b>