

<b>Code/Daten</b>	BA./MA.	Stand: Dec 1, 2010	Start:
<b>Modul name</b>	<b>New trends in applied mathematics</b>		
<b>Responsible</b>	Prof. Dr. Michael Eiermann		
<b>Lecturer(s)</b>	Dr. Felix Ballani PD Dr. Swanhild Bernstein Prof. Dr. Gerald van den Boogaart Prof. Dr. Stephan Dempe Prof. Dr. Michael Eiermann Prof. Dr. Oliver Ernst Prof. Dr. Wolfgang Näther Prof. Dr. Michael Reissig Prof. Dr. Ingo Schiermeyer Prof. Dr. Wolfgang Sprößig		
<b>Institute(s)</b>	Institut für Angewandte Analysis Institut für Diskrete Mathematik und Algebra Institut für Numerische Mathematik und Optimierung Institut für Stochastik		
<b>Duration</b>	1 semester		
<b>Competencies</b>	Ph. D. students are exposed to recent trends in applied mathematics.		
<b>Content</b>	The objective of these lectures is to inform Ph. D. students about important concepts and new ideas in applied mathematics. The course focuses on mathematical models in the applied sciences as well as on recent algorithmic innovations.		
<b>Literature</b>	Pointers to the relevant literature will be given during the lectures.		
<b>Types of teaching</b>	Lectures (2 SWS)		
<b>Prerequisites</b>	None.		
<b>Applicability</b>			
<b>Frequency</b>	Each semester.		
<b>Requirements for credit points</b>	Students are expected to formulate the mathematical problems they encountered during their Ph. D. studies (2-3 pages).		
<b>Credit points</b>	3		
<b>Grade</b>	No grade is given.		
<b>Work load</b>	The total time budget for the lectures is at 90 h (30 academic hours are spent in class and the remainder is spent on self-study).		