Module MA-INF 3218	Seminar Model-Driven Software Engineering				
Workload 120 h	Credit points 4 CP	Duration 1 semeste	Frequer every year		
Module coordinator	Dr. Günter Kniesel				
Lecturer(s)	Dr. Günter Kniesel				
	Programme Mode Semester				
Classification	M. Sc. Comput	er Science	Optional	2.	
Technical skills	On successful co	ompletion o	pletion of this module, students should be able to:		
	 Understand the differences between model driven and traditional software development Describe the common features and peculiarities of different model driven development approaches Assess the suitability of a model driven approach for a given project Select appropriate tools for model driven development tasks Explain the individual scientific topic prepared 				
Soft skills	On successful completion of this module, students should have refined their scientific writing and presentation skills and should be able to: • Mine for profound knowledge about a given subject • Distill and communicate the summary of a computer science topic orally • Evaluate the scientific integrity of a written summary • Use modern presentation software				
Contents	Inhalte				
	Model driven software development concepts, tools and methods.				
	In particular:				
	 Models, meta-models and meta-meta-models (General, MOF, EMOF, ECORE) Text to model, model to model, model to text transformation Imperative versus declarative model transformation Model-driven versus other software development approaches Best practice and research issues in model based development 				
Prerequisites	Recommended:				
	MA-INF 3207 -	Advanced	Logic Progi	ramming	
Format	Teaching forms	at	Group size	h/week	Workload[h] CP
1 31 may	Seminar		10	2	30 T / 90 S 4
	T = face-to-face	e teaching; S	S = independent S = independ	ndent study	
Exam achievements	Oral presentation, written report (graded)				
Study achievements	none (not graded)				
Forms of media	 Web page: https://sewiki.iai.uni-bonn.de/teaching/seminars/start Slides (Powerpoint/PDF) Mailing list for students 				
Literature	 "Model-Driven Software Development: Technology, Engineering, Management". Thomas Stahl, Markus Voelter, Wiley 2006. "Model-Driven Software Development". Sami Beydeda, Matthias Book, Volker Gruhn (Eds), ISBN 978-3-540-25613-7, Springer 2005 David S. Frankel: Model Driven Architecture: Applying MDA to Enterprise Computing, John Wiley 				