Module	Lab Model-	Driven S	oftware	Engineer	ring
MA-INF 3219					
Workload	Credit points Duration		Frequency		
270 h	9 CP 1 semester   every year   Dr. Günter Kniesel				
Module coordinator	Dr. Gunter Kni	esei			
	Dr. Cüntan Vni	agal			
Lecturer(s)	Dr. Günter Kniesel Programme Mode Semester				
Classification	M. Sc. Compute	er Science	Optional	2.	
Technical skills					should be able to:
	<ul> <li>Describe the process of model driven software development (MDSD) and support this description with personal experiences</li> <li>Connect model driven software development guidelines to concrete practical examples</li> <li>Be able to use one or several concrete MDSD tools and techniques and explain their use to others</li> </ul>				
Soft skills	Students should be able to:				
	<ul> <li>Run a software project based on MDSD tools, techniques and methods</li> <li>Establish and iteratively evolve a project plan</li> <li>Collaborate in a team</li> <li>Estimate the required time and other resources for given tasks</li> <li>Manage a software development project with time constraints</li> </ul>				
Contents	Model driven software development methods are the key to a new level				
	automation and tool integration in software development. Students will learn how MDSE concepts, tools an methods boost the development general purpose and domain specific languages, leverage software quality analysis tools and foster automated software improvement.				
Prerequisites	Required:				
	MA-INF 3218 – Seminar Model-Driven Software Engineering				
	The seminar lay	s the concep	tual foun	dations for t	the work in the lab.
Format	Teaching forma	at (	Group size	h/week	Workload[h] CP
	Lab		8	4	60 T / 210 S   9
	T = face-to-face teaching; $S = independent study$				
Exam achievements	Oral presentation, written report (graded)				
Study achievements	none (not graded)				
Forms of media	• Web page: https://sewiki.iai.uni-bonn.de/teaching/labs/start				
	<ul> <li>Slides (Powerpoint/PDF)</li> <li>Wiki as a shared knowledge base</li> <li>Task Tracking System (Electronical or Physical)</li> <li>Shared repository for source code and development documents</li> <li>Mailing list</li> </ul>				
Literature	<ul> <li>"Model-Driven Software Development: Technology, Engineering, Management". Thomas Stahl, Markus Voelter, Wiley 2006.</li> <li>"Model-Driven Software Development". Sami Beydeda, Matthias Book, Volker Gruhn (Eds), ISBN 978-3-540-25613-7, Springer 2005</li> <li>David S. Frankel: Model Driven Architecture: Applying MDA to Enterprise Computing, John Wiley</li> <li>Modellgetriebene Softwareentwicklung, Techniken, Engineering, Management. dPunkt, 2005</li> </ul>				