

Assessment Template Modeling Assignments Core Course Introduction to Modeling (fill in dark blue cells only)

report items	aspect	phase from the modeling process cf. table 1.3 (lecture notes)	topic	1st intermediate score	2nd intermediate score	final score	criterion for absent (mark=0)	criterion for insufficient (mark=3.3)	criterion for sufficient (mark=6.7)	criterion for good (mark=10)	
v1:7; v2:7,15; v3:7,15.	process phases	defining	formulating the problem statement				problem statement is absent	problem statement is inadequate (e.g.: many inconsistencies, many omissions)	problem statement is somewhat adequate (e.g., some inconsistencies, contains main issues but is not complete)	problem statement is adequate (consistent and complete)	
v1:8; v2:8; v3:8.			formulating sub-questions				sub-questions are absent	sub-questions are inadequate (e.g., irrelevant, superfluous or absent sub-questions)	sub-questions are somewhat adequate (e.g., sub-questions are partially relevant, some superfluous sub-questions, some important sub-questions are lacking)	sub-questions are adequate (sub-questions are relevant, necessary and sufficient)	
v1:9; v2:9; v3:9,19.		conceptualizing	conceptual model				conceptual model is absent	conceptual model is inadequate (e.g.: incomplete, inconsistent, irrelevant)	conceptual model is somewhat adequate (e.g., there are omissions, there are inconsistencies, there are irrelevant details)	conceptual model is adequate (complete, consistent, no irrelevant details)	
v2:10,12; v3:10,12,20.		formalizing	formal model				formal model is absent	formal model is inadequate (e.g., detached from conceptual model, major mistakes w.r.t. dimensions or types, largely implausible behavior)	formal model is somewhat adequate (e.g., only partial translation of conceptual model, sloppiness regarding dimensions or types, shows implausible behavior in some cases)	formal model is adequate (good translation of conceptual model, correct w.r.t. dimensions and types, plausible behavior)	
v1:9; v2:9,11,14; v3:9,11,14.			assumptions and approximations				assumptions and approximations are absent	assumptions and approximations are inadequate (e.g., not mentioned explicitly, irrelevant, not substantiated, inconsistent)	assumptions and approximations are somewhat adequate (e.g., partially mentioned explicitly, partially relevant, partially substantiated, partially consistent)	assumptions and approximations are adequate (mainly mentioned explicitly relevant, substantiated, consistent)	
v3:12,16,21.		executing	operations with the model				mathematical / logical elaboration is absent	mathematical / logical elaboration is inadequate (e.g., essential mistakes or omissions, approach is not fit for the problem)	mathematical / logical elaboration is somewhat adequate (e.g., minor mistakes or omissions, approach is partially fitting for the problem)	mathematical / logical elaboration is adequate (no mistakes or omissions, approach is fitting for the problem)	
v3:13,16,17.			validity, accuracy, usefulness of results				quality of model outcome is absent	quality of model outcome is low (e.g., large uncertainties, missing or unrealistic estimates of usefulness)	quality of model outcome is average (e.g., some non-negligible mistakes, somewhat insufficiently realistic estimate of usefulness)	quality of model outcome is good (negligible errors only, realistic estimates of usefulness)	
v3:18,22.		concluding	interpretation of the mathematical results in terms of the initial problem				interpretation of the mathematical outcomes is absent	interpretation of the mathematical outcomes in terms of the initial problem is inadequate	interpretation of mathematical outcomes in terms of the initial problem is somewhat adequate	interpretation of mathematical outcomes in terms of initial problem is adequate	
			adaptation or extension of the model - in case of shown necessity				no adaptations to the model	adaptations to the model were irrelevant	there was a sincere, but not entirely relevant or successful attempt to adapt the model	there was a relevant and successful attempt to adapt the model	
v2:19; v3:19, 23 - 27.		evaluating	reflection on one's own modeling process				reflection is absent	reflection is inadequate (e.g., no, superficial, or unrealistic reflection)	reflection is somewhat adequate (e.g., reflection is somewhat superficial or somewhat unrealistic)	reflection is adequate (thorough and realistic)	
		general		usage of the terminology				writing is incomprehensible	vernacular is inadequate (e.g., terminology from lecture notes is mainly used wrongly, not, or superfluously)	vernacular is somewhat adequate (e.g., terminology from lecture notes is sometimes used erroneously, too little, or unnecessarily)	vernacular is adequate (terminology from lecture notes is used correctly and to the right extent)
				usage of the methods				approach is incomprehensible	approach is inadequate (e.g., no methodical approach, mainly wrong methodology, or a method used wrongly)	approach is somewhat adequate (e.g., not quite the right method, method is used not quite rightly)	approach is adequate (right methods are used rightly)
	attitude		attitude of carefulness (only substantiated claims and conclusions)				(does not apply)	group doesn't show sense of carefulness (e.g., claims and conclusions are unrealistic or not substantiated)	groups shows some sense of carefulness (e.g., some claims and conclusions are unrealistic or unsubstantiated)	group shows sense of carefulness (claims and conclusions are realistic and well-substantiated)	
			attitude of courage (initiative to take decisions and to make estimates and assumptions)				(does not apply)	group doesn't dare to make estimates or assumptions	group dares to take estimates and approximates after having been urged to do so	group makes estimates and approximations on its own initiative	
			additional, namely:				criterion	criterion	criterion	criterion	
			additional, namely:				criterion	criterion	criterion	criterion	
			additional, namely:				criterion	criterion	criterion	criterion	
			totals	X	X	X	Final Assignment Grade: (not yet defined)				

number of scored criteria	0	0	0
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