

Module title		Abbreviation
Modeling and Simulation for Technological Systems		99-MST-161-mo1
Module coordinator		Module offered by
Dean of the Faculty of Mechanical Engineering at the University of Applied Sciences Würzburg-Schweinfurt		University of Applied Sciences Würzburg-Schweinfurt (FHWS)
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Theoretical foundations and practical application of the theory of linear and non-linear dynamic systems in electrical engineering and beyond.		
Intended learning outcomes		
The student has basic knowledge of dynamic and nonlinear systems and can describe them with the help of modelling and analyse their behaviour by simulation.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 90 minutes) and practical examination (modelling assignment, approx. 40 hours) Assessment offered: Once a year, winter semester Language of assessment: German and/or English Ü: creditable for bonus		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Master's degree (1 major) Functional Materials (2016)		