

Name of module:	Master Thesis
Keywords:	Master Thesis
Modulnumber:	ASM 302
Target group(s):	3. Semester ASM
ECTS-Credits:	23
Language of instruction:	english
Module owner:	Prof. Erich Schindler

Extent of work (hours)

Workload	Contact hours	Self study	Exam preparation
690	30	660	

Prerequisites:	<ul style="list-style-type: none"> • comprehensive foundations in the area of the scientific work • knowledge of project management, documentation and presentation technique
Total target:	The master thesis is an examination and consists of the master thesis project and the presentation and defense. It shall show that the examinees themselves are able to handle and solve a problem with scientific methods on their own and within a set timeframe.
Module content:	<ul style="list-style-type: none"> • constitution of project structure (time schedule, work packages) • realisation of given task with scientific methods and within a given timeframe • documentation and evaluation of results • presentation and defense of results
Reference material:	
Offered:	Winter term only
Relevance for other study programs:	

Submodules and assessment

Title of submodule	Master Thesis Project
Type of instruction / form of learning:	scientific work
ECTS-Credits	20
Hours per week:	0
Aims, learning outcomes:	<ul style="list-style-type: none">• to be able to handle and solve a problem related to automotive systems with scientific methods on their own and within a set timeframe• to understand and to evaluate scientific further developments in the field of automotive systems• to judge the feasibility of further developments• to assess the room for improvement with respect to functionality• to assess the room for improvement with respect to automotive software• to assess the room for improvement with respect to car electronics• to realize and evaluate interdependencies between automotive systems and the basic vehicle dynamics
Type of assessment:	Report

Title of submodule	Presentation and Defence
Type of instruction / form of learning:	Presentation
ECTS-Credits	3
Hours per week:	0
Aims, learning outcomes:	to be able to present, explain and defend complex scientific topic
Type of assessment:	Presentation and oral examination 30 min