

Module List of M.Sc. Automotive Engineering

Modules of M.Sc. Automotive Engineering									
Module	Term	CP	Optional/ obligatory	Language of Instruction		Abbr.	Lecturer	Semester	Module Number
				Lecture	Material				
Advanced Body Engineering and Lightweight Design	summer	6	obligatory	DE	DE/EN	ABE	Herrmann	1	7.1
Advanced Combustion Engines	winter	4	optional	DE	DE/EN	ACE	Münch	2	7.5
Advanced Materials	winter	6	obligatory	DE/EN	DE/EN	AM	Krug, Stollenwerk	1	7.10
Advanced Thermodynamics	summer	4	optional	DE	DE/EN	ATD	Münch	2	7.11
Advanced Vehicle Safety	winter	4	optional	DE	DE/EN	AVS	Viscido	2	7.8
Automotive Manufacturing	winter	4	optional	DE/EN	DE/EN	AMP	Hartl	2	7.16
Automotive Supply Chain Management	winter	4	optional	DE/EN	DE/EN	ASCM	Schulte Herbrüggen	1	7.22
Component Design, Materials and Manufacture (project-based)	winter/ summer	4	optional	DE/EN	DE/EN	CDMM	Krug	2	7.23
Corporate Management	winter	4	optional	DE	DE/EN	CM	Matoni	2	7.17
Cost-Efficient Product Design	winter	4	optional	DE/EN	DE/EN	CEPD	Stekolschik	2	7.25
Digital Factory	winter	4	optional	DE/EN	DE/EN	DiFa	Breede	2	7.18
Driver Assistance Systems	winter	4	optional	DE/EN	DE/EN	DAS	Tiltmann	2	7.26

Engineering Ethics	winter	4	optional	DE	DE	EE	Ruschitzka, Zilkens	2	7.21
FEA in Body Engineering	winter	6	optional	DE	DE/EN	FEx	Herrmann	2	7.6
Leadership Application	winter	4	optional	DE/EN	DE/EN	LSA	-	2	
Legal Requirements and Homologation	winter	4	optional	DE	DE	LRH	Pusch	2	7.19
Mobility Concepts	winter	4	optional	DE	DE/EN	MC	Frantzen	2	7.27
Numerical Methods in Engineering Sciences	summer	6	obligatory	DE	DE/EN	NM	Engelmann	1	7.9
NVH Systems Engineering	summer	4	optional	DE/EN	DE/EN	NVH	Haas	2	7.7
Optimal Control and Estimation	winter	4	optional	DE	DE/EN	OCE	Engelmann	2	7.12
Scientific Seminar/Advanced Technical English	winter/ summer	-	upon request	EN	EN	ScSe/ ATE	Frantzen	1/2	7.29
Statistical Optimization	winter	4	optional	DE	DE/EN	SO	Lenz	2	7.13
Structural Durability	winter	4	optional	DE/EN	DE/EN	SD	Krug	2	7.14
Sustainability	summer	4	optional	DE	DE/EN	SUT	Severengiz, Hesse	2	7.20
Technology of Material Flow and Robotics	winter	4	optional	DE/EN	DE/EN	TMR	Breede	2	7.28
Vehicle Concepts and Integration	summer	6	obligatory	DE	DE/EN	VCI	Frantzen	1	7.2
Vehicle Dynamics and Automotive Chassis	summer	6	obligatory	DE/EN	DE/EN	VDAC	Betzler	1	7.3
Vehicle Dynamics Simulation	winter	4	optional	DE/EN	DE/EN	VDS	Betzler	2	7.15
Vehicle Electronics and Communication	summer	6	obligatory	DE/EN	DE/EN	VEC	Viscido	1	7.4
Virtual Reality	summer	4	optional	DE	DE/EN	VR	Ruschitzka	2	7.24