

List of Modules

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	
Advanced Combustion Engines	winter	4	optional	DE	DE/EN	ACE	Münc	2	
Advanced Materials	summer	6	obligatory	DE/EN	DE/EN	AM	Krug, Stollenwerk	1	
Advanced Thermodynamics	winter	4	optional	DE	DE/EN	ATD	Münc	2	
Advanced Vehicle Safety	winter	4	optional	DE	DE/EN	AVS	Viscido	2	
Automotive Manufacturing Processes	winter	4	optional	DE/EN	DE/EN	AMP	Hartl	2	
Automotive Supply Chain Management	summer	4	optional	DE/EN	DE/EN	ASCM	Schulte Herbrüggen	1	
Component Design, Materials and Manufacture	winter	4	optional	DE/EN	DEEN	CDMM	Krug	2	
Control System Design	winter	4	optional	DE	DE/EN	CSD	Henrichfreise	2	
Corporate Management	winter	4	optional	DE	DE/EN	CM	Matoni	2	
Cost-Efficient Product Design	winter	4	optional	DE/EN	DE/EN	CEPD	Stekolschik	2	
Digital Factory	winter	4	optional	DE	DE/EN	DiFa	Breede	2	
Driver Assistance Systems	winter	4	optional	DE/EN	DE/EN	DAS	Tiltmann	2	

Engineering Ethics	winter	4	optional	DE	DE	EE	Zilkens	2	
FEA in Body Engineering	winter	4	optional	DE	DE/EN	FEx	Herrmann	2	
Leadership Application	winter	4	optional	DE/EN	DE/EN	LSA	-	2	
Legal Requirements and Homologation	winter	4	optional	DE	DE	LRH	Frantzen, Krug	2	
Mobility Concepts	winter	4	optional	DE	DE/EN	MC	Frantzen	2	
Modelling of Multi-Body Systems	winter	4	optional	DE	DE/EN	MMS	Henrichfreise	2	
Numerical Methods	summer	6	obligatory	DE	DE/EN	NM	Engelmann	1	
NVH Systems Engineering	winter	4	optional	DE	DE/EN	NVH	Faßbender, Haas	2	
Optimal Control and Estimation	winter	4	optional	DE	DE/EN	OCE	Henrichfreise	2	
Statistical Optimization	winter	4	optional	DE	DE/EN	SO/StOp	Lenz	2	
Structural Durability	winter	4	optional	DE/EN	DE/EN	SD	Krug	2	
Sustainability	winter	4	optional	DE	DE/EN	SUT	Severengiz, Krug	2	
Technology of Material Flow and Robotics	winter	4	optional	DE	DE/EN	TMFR/ MR	Breede	2	
Vehicle Concepts and Integration	summer	6	obligatory	DE	DE/EN	VCI	Frantzen	1	
Vehicle Dynamics and Automotive Chassis	summer	6	obligatory	DE/EN	DE/EN	VDAC	Betzler	1	
Vehicle Dynamics Simulation	winter	4	optional	DE/EN	DE/EN	VDS	Betzler	2	
Vehicle Electronics and Communication	summer	6	obligatory	DE/EN	DE/EN	VEC	Viscido, Gundlach	1	
Virtual Reality	winter	4	optional	DE	DE/EN	VR	Ruschitzka	2	