

Master programme in Automotive Engineering of RWTH Aachen University

PO 2013

Compulsory Courses											
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS	
Pischinger	Pischinger	Alternative Vehicle Propulsion Systems	5	2	1	3	s	4011731	74	28	
Eckstein	Eckstein	Automotive Engineering III	5	2	1	3	w	4011413			
Hameyer	Hameyer	Electric Drives and Storage Systems	5	2	1	3	w/s	6011062			
Schmitz	Schmitz	Fundamentals of Fluid Power (Hydraulics and Pneumatics)	6	2	2	4	w	4011410			
Pischinger	Pischinger	Internal Combustion Engines: Design and Mechanics	6	2	2	4	s	4011417			
Hüsing	Hüsing	Machine Dynamics of Rigid Systems	6	2	2	4	s	4017428			
Jacobs / Schröder	Jacobs / Schröder	Processes and Principles for Lightweight Design	6	2	2	4	w	4011411			
Eckstein	Eckstein	Structural Design of Vehicles	5	2	1	3	s	4011465			
		Master Thesis	30				sw				

Elective Courses											
Responsible for Module	Lecturers	Module	CP	L	P/L	Σ SWS	Summer / Winter	Module ID	Σ CP	Σ SWS	
Schleifenbaum	Schleifenbaum	Additive Fertigungsverfahren: Technologien und Prozesse	6	2	2	4	w	4017421	22	*	
Itskov	Itskov	Advanced Finite Element Methods for Engineers	5	2	2	4	w	4013866			
Poprawe	Poprawe	Applications of Laser Technology	6	2	2	4	s	4011431			
Eckstein	Eckstein	Automated and Connected Driving Challenges - Course	4	0	2	2	w	4025905			
Eckstein	Lampe	Automated and Connected Driving Challenges - Research Project	5	0	1	1	s	4025906			
Eckstein	Eckstein	Automotive Engineering - Practical Course I&II	6	0	4	4	w&s	4011414			
Eckstein	Eckstein	Automotive Engineering IV - Automated Driving	5	2	1	3	s	4020493			
Schwalm	Schwalm	Automotive System Evaluation	5	2	1	3	s	4011433			
Eckstein	Löwer/ Böddeker	Kooperative Produktentwicklung in der Fahrzeugtechnik	6	1	3	4	s	4017426			
Abel	Abel	Control Engineering	5	2	1	3	w	4011476			
Oeser	Oeser	Environmental Sustainability in Transport Engineering	6	2	2	4	w	3012215			
Schröder	Schröder	Fatigue Design of Lightweight Structures	5	2	2	4	s	4020486			
Schlick	Schlick	Industrial Engineering, Ergonomics and Work Organisation	5	4	0	4	w/s	4011459			
Klocke	Brumm	Gear and Transmission Technology	6	2	2	4	w	4011427			
Nitsch	Nitsch	Industrial Engineering	5	2	2	4	w	4014915			
Pischinger	Pischinger	Internal Combustion Engines: Thermodynamics and Emissions	6	2	2	4	w	4011415			
Natour	Natour	Mess- und Prüfverfahren in der Fügetechnik	6	2	2	4	ws	4011514			
Markert	Markert	Mechanics of Forming Processes	5	2	2	4	w	4011512			
Klocke / Eckstein	Klocke / Eckstein	Mini Thesis **	9	0	0	270	sw	4014447			
Oeser / Louen	Oeser / Louen	Mobility Research and Transportation Modeling	6	2	2	4	s	3013294			
Markert	Markert	Molecular Mechanics and Multiscale Modelling of Materials	5	2	2	4	w	4011511			
Markert	Markert	Mechanik poröser Medien	6	2	2	4	s	4010870			
Schmitt	Schmitt	Quality Management	6	2	2	4	w	4011453			
Eckstein	Eckstein	Self-Driving Lab II - Algorithms	2	1	0	1	s	4020552			
Jacobs	Jacobs	Tribology	6	2	2	4	w	4011475			
Biermann	Biermann	Vehicle Acoustics	5	2	2	4	s	4011421			