

Vorlesungsplan SS 2023
Version: 13.03.2023 – FT 30 Fahrerassistenzsysteme
Freitag 08:30 – 15:30
I305 (IFM Benningen), Zoom

Nr.	Datum	Inhalt	Ort	Von Wem
1	17.03.	Introduction Advance Driver Assistance Systems and Automated Driving <ul style="list-style-type: none"> • Motivation • Taxonomy of Automated Driving • Principle Sense-Plan-Act • Sensor types • Vehicle Dynamics Simulation with Traffic 	Zoom	Schick
2	14.04	ADAS for longitudinal guidance <ul style="list-style-type: none"> • Longitudinal guidance systems (e.g. ACC, PCC...) • Sens-Plan-Act • Architecture and Interface • System functions • Testing and evaluation methods • Practical simulation of driving maneuvers 	I305	Kastner
3	28.04	ADAS for lateral guidance <ul style="list-style-type: none"> • Lateral guidance systems (e.g. LDW, aLDW, LKAS, LaneChange...) • Sens-Plan-Act • Architecture and Interface • System functions • Testing and evaluation methods • Practical simulation of driving maneuvers 	I305	Merk, Keidler
4	12.05	ADAS for automated parking <ul style="list-style-type: none"> • Lateral guidance systems (e.g. LDW, aLDW, LKAS, LaneChange...) • Sens-Plan-Act • Architecture and Interface • System functions • Testing and evaluation methods • Practical simulation of driving maneuvers 	I305	Günther, Boscher
5	02.06	User Experience with ADAS <ul style="list-style-type: none"> • HMI-Fundamentals 	I305	Aydogdu, Schuler

		<ul style="list-style-type: none"> • HMI-Principles • HMI-Workshop 		
6	09.06	Track Day	IFM	all
7	TBD	Exam Questions	TBD	Schick

* Remember, understand, apply, analyze, evaluate, develop

Nr.	Datum	Inhalt	Education Target*
1		Introduction Advance Driver Assistance Systems and Automated Driving	Understand & apply
2		ADAS for longitudinal guidance	Understand & apply & analyze
3		ADAS for lateral guidance	Understand & apply & analyze
4		ADAS for automated parking	Understand & apply & analyze
5		User Experience with ADAS	Understand & apply & analyze
6		Track Day	analyze & evaluate
7		Exam Questions	Understand