Name of module:	Reliability
Keywords:	
Module number:	Not compulsory
Target groups:	exchange students
ECTS-Credits:	2
Language of instruction:	English
Module owner:	Prof. Dr.-Ing. Tobias Leopold
Date of last change:	07.03.2024

Extent of work (hours)

Workload	Contact hours	Self study	Exam preparation
60	25	25	10

Prerequisites:	
Total target:	The aim of the module is to provide an introduction to the methods and tools used to determine the reliability of components and of engineering systems.
Module number:	Not compulsory
Module content:	- Definition, significance and overview of reliability, techniques in the product - development and in the product life cycle - Statistics, probability theory, life time distribution, reliability of systems - FMEA - Boolean system theory - Proof of reliability, planning of tests, collecting field data - Availability of systems - Repairable systems
Reference material:	Lecture notes
Offered:	WS
Relevance for other study programs:	Automotive Engineering

Submodules and assessments

Title of submodule:	
Type of instruction / form of learning:	Lectures
Hours per week:	2
Target groups:	exchange students
Aims, learning outcomes:	See above
Estimated student workload:	60 h
Type of assessment:	written exam