

Module description

Name of module:	Lightweight Design
Keywords:	
Module number:	Not compulsory
Target groups:	exchange students
ECTS - Credits:	4
Language of instruction:	English
Module owner:	Prof. Dr.-Ing. Steffen Greuling
Date of last change:	30.09.2015

Extent of work (hours)

Workload	Contact hours	Self study	Exam preparation
120	60	40	20

Prerequisites:	
Total target:	Knowledge of methods and design principles for a load-carrying capacity and a stiffness-oriented design considering the external loading, boundary conditions and material behavior of lightweight structures.
Module number:	Not compulsory
Module content:	<ul style="list-style-type: none">• Principles and objectives of lightweight design• Thin-walled profiles (beams)• Plates and shells• Stability problems• Selected examples of lightweight design
Reference material:	Lecture documents
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:	4
Target groups:	exchange students
Aims, learning outcomes:	See above
Estimated student workload:	120 h
Type of assessment:	written exam