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)

<table>
<thead>
<tr>
<th>Workload</th>
<th>Contact hours</th>
<th>Self study</th>
<th>Exam preparation</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>60</td>
<td>40</td>
<td>20</td>
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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:
- 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