

t.TMS - Technische Mechanik und Statik

Person responsible for the course: Hanfried Hesselbarth, hsbh

Credits: 4

Valid for: 2011/2012

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Learning objectives:

The students get an overview of current and future issues of production in aviation.

They are able to calculate and formulate mathematically simple constructions.

They know the technical possibilities of the various materials used in light-weight construction.

They have the basic skills required for the course 'Light-weight Construction Technology'.

Course content:

- An introduction to Statistics, Mechanics and the Mechanics of Materials
- Principles of light-weight construction
- Possibilities and limitations of materials in light-weight construction
- Static structural issues in the field of aviation

Previous knowledge:

Basics of Mathematics

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*2
Tutorial/Practicum	14*2
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	0.5
1	Exam during the semester	0.4
2	Further assessments	0.1

Language of instruction:

German

Instruction material:

Script, Exercises

Textbooks:

for example:

Technische Mechanik Band 1: Statik von Bruno Assmann

Bruno Assmann, Peter Selke, Technische Mechanik 1, 19., überarbeitete Auflage 2010, Oldenbourg

Wissenschaftsverlag,

ISBN 978-3-486-59133-0

Bruno Assmann, Peter Selke, Technische Mechanik 2

Band 2: Festigkeitslehre, 17, 2009,

ISBN 978-3-486-58791-3

Comments:

Lecturer: Hanfried Hesselbarth