

t.MME4 - Mechanik für Mechatronik 4

Person responsible for the course: Michael Warden, wami

Credits: 2

Valid for: 2011/2012

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Learning objectives:

The students can analyze both free and forced vibrations (mechanical oscillations) with or without damping respectively. They are familiar with different solutions including solving the equation of motion, using energy methods, or solving the problems in the frequency domain.

Course content:

Lecture:

- Free Vibrations
- Forced Vibrations
- Systems with two degrees of freedom

Problem solving:

Problems are handed out which have to be solved as home work. These are discussed during the lectures.

Previous knowledge:

Courses MME1, MME2, and MME3

Teaching method:

| Type of lesson: | Number of lessons per week: |
|--------------------|-----------------------------|
| Lecture | 14x2 |
| Tutorial/Practicum | |
| 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 | 0.8 |
| 1 | Exam during the semester | 0.2 |
| | Further assessments | |

Language of instruction:

German

Instruction material:

Technische Mechanik 3: Band 3: Kinetik von Gross, Hauger, Schröder und Wall: ISBN 978-3-540-6822-0

Comments:

None