

# Course Manual RT

Control Engineering

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## – General information

**Long name** Control Engineering

**Approving CModule** [RT\\_BaET](#), [RT\\_BaTIN](#)

**Responsible** Prof. Dr. Jens Onno  
Krah  
Professor Fakultät IME

**Valid from** winter semester  
2022/23

**Level** Bachelor

**Semester in the year** winter semester

**Duration** Semester

**Hours in self-study** 60

**ECTS** 5

**Professors** Prof. Dr. Jens Onno  
Krah  
Professor Fakultät IME

**Requirements** MA1, MA2, GE1, GE2,  
ASS, MT

**Language** German

**Separate final exam** Yes

### Literature

Skript

Lutz, Wendt: Taschenbuch der Regelungstechnik,  
Verlag Harri Deutsch.

### Final exam

**Details** Written module  
examination

**Minimum standard** -

**Exam Type** EN Klausur

## – Lecture / Exercises

### Learning goals

Goal type	Description
Skills	Transfer function of the closed control loop
Skills	Selection of a appropriate controller for a given system
Skills	Calculation of the stability of control loops

### Special requirements

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### Accompanying material

undefined

### Separate exam

No

### Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	2
Exercises (shared course)	0
Tutorial (voluntary)	0

## – Practical training

### Learning goals

Goal type	Description
Skills	Handling and correct application of engineering tools
Skills	Use and evaluation of the controllers
Skills	Structure of control equipment
Skills	Solving control problems

### Special requirements

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<b>Accompanying material</b>	Experimental instructions
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<b>Separate exam</b>	No
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### Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	1
Tutorial (voluntary)	0