## Module title
Advanced Automation

## Abbreviation
10-I=AA-152-m01

### Module coordinator
holder of the Chair of Computer Science VII

### Module offered by
Institute of Computer Science

### ECTS
8

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
graduate

### Other prerequisites
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### Contents
Advanced topics in automation systems as well as instrumentation and control engineering, for example from the field of sensor data processing, actuators, cooperating systems, mission and trajectory planning.

### Intended learning outcomes
The students have an advanced knowledge of selected topics in automation systems. They are able to implement advanced automation systems.

### Courses
(type, number of weekly contact hours, language — if other than German)
V (4) + Ü (2)

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 60 to 120 minutes)
creditable for bonus

### Allocation of places
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### Additional information
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### Referred to in LPO I (examination regulations for teaching-degree programmes)
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### Module appears in
- Master’s degree (1 major) Space Science and Technology (2015)
- First state examination for the teaching degree Gymnasium Computer Science (2015)
- Master’s degree (1 major) Computer Science (2016)
- Master’s degree (1 major) Mathematics (2016)
- Master’s degree (1 major) Computational Mathematics (2016)
- Master’s teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)
- Supplementary course MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2016)
- Master’s degree (1 major) Computer Science (2017)
- Master’s degree (1 major) Computer Science (2018)
- Module studies (Master) Computer Science (2019)
- Master’s degree (1 major) Computational Mathematics (2019)
- Master’s degree (1 major) Mathematics (2019)