

# NEW MASTER PROGRAMME MECHATRONICS AND INFORMATION TECHNOLOGY 2025



Arbeitskreis Mechatronik  
& Informationstechnik



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& Informationstechnik

# CHANGES TO THE CURRENT MIT MASTER 2015



# MIT MASTER 2015

- Some Modules will be moved to the Bsc only:
  - Fertigungsmesstechnik (From 31.03.2025)
  - Robotik I - Einführung in die Robotik (From 30.09.2025)
  - Nachrichtentechnik II (only in english starting from WS25/26)
- If that ruins your plans, contact the Prüfungsausschuss and ask them to make an exception.
- Vertiefungsfach Medizintechnik: Available until the end



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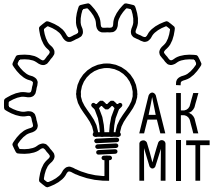
# THE NEW MIT MASTER 2025



Current state of planning.  
Not final, but unlikely to change.

# STUDIEN- UND PRÜFUNGSORDNUNG

- Transfer from Master 2015 to Master 2025 possible
  - Can't have an open examination procedure
- Language: English, german courses possible
- Maximum study duration: 8 Semester
- Studies can be finished with „Studienleistungen“
- No deadline for repetition of exams



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Not final, but unlikely to change.

# STRUCTURE

Master MIT SS25 - Version: 24.06.2024				
1. - 3. Sem				4. Sem
Field of Specialization in Mechatronics and Information Technology ( $\Sigma$ 60 CP):				Master's Thesis (30 CP)
Mandatory Electives – Methodical (at least 8 CP)	Mandatory Electives – General (at least 16 CP)	Internship / Lab Course (exactly one)	Additive Electives	
Elective Area in Mechatronics and Information Technology (22 CP)				
Interdisciplinary Qualifications (8 CP)				

Maximum of one Internship / Lab Course allowed in the Elective Area



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Not final, but unlikely to change.

# FIELDS OF SPECIALIZATION

- Vehicle Systems Engineering
- Energy Technology
- Micro System Technology
- Industrial Informatics and Systems Engineering
- Autonomous Systems and AI
- Automation, Control and Robotics
- Design of Mechatronic Systems



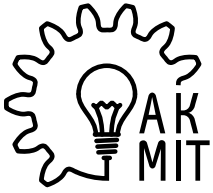
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# MEDICAL ENGINEERING

- New Master Biomedical Engineering (Faculty ETIT) starting WS 25/26
- No Field of Specialization „Medical Engineering“ available in MIT
- BME-Courses in Elective Area of MIT



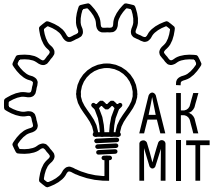




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# MASTERVORZUG

- There are no mandatory courses in the Master 2025
- Some courses will definitely not be part of Master 2025:
  - Nachrichtentechnik II
  - Systematische Werkstoffauswahl
  - Fertigungsmesstechnik
  - Bauelemente der Elektrotechnik
  - Robotik I - Einführung in die Robotik
  - Technische Mechanik 4
- At the moment no reliable information about courses in the fields of specialization in Master 2025
  - Current „Pflichtbestandteile“ will likely stay in respective fields of specialization
  - Courses for elective area and Interdisciplinary Qualifications definitely an option



Current state of planning.  
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# ADMISSION

## Requirements:

- Bachelor's Degree
- 6 Credits in „Grundlagen der Elektrotechnik und/oder Informationstechnik“ (Basics of electrical engineering and/or information technology)
- 6 Credits in „Technischer Mechanik und/oder Thermodynamik“ (Engineering mechanics and/or thermodynamics)
- 21 Credits in „Höherer Mathematik“ (Mathematics)
- 6 Credits in „Regelungstechnik“ (Control engineering)
- English Skills
  - Tests like TOEFL, IELTS, CAE, CPE, UNlcert
  - University Degree in the english language
  - Abitur with 5 years english and more than 5 points
  - English Bachelor's Thesis

Fulfilled with Bachelor  
MIT, MACH and ETIT

Standard at KIT



Current state of planning.  
Not final, but unlikely to change.

# FAQ

- Are there mandatory courses in the new Master?
  - No, only mandatory electives
- How do I transfer from Master 2015 to Master 2025 and which courses can I move where?
  - No definite information yet