



Arbeitskreis Mechatronik
& Informationstechnik

WELCOME TO KIT

Master Mechatronics and Information
Technology (MIT)

AK MIT



FS ETIT

Student Council Electrical
Engineering



FMC

Student Council
Mechanical Engineering



Arbeitskreis Mechatronik
& Informationstechnik

AK MIT



Contact:

info@ak-mit.vs.kit.edu

- Study Committee
- Examination Board
 - Counselling



All slides will be uploaded afterwards!

→ FMC-Homepage: Navigate to „Studium“ and then
„Downloads“



Arbeitskreis Mechatronik
& Informationstechnik

MASTER O-PHASE

Student Councils MACH/CIW and ETIT

MIT CAN DO BOTH!



You can participate in the orientation phases of both student councils!

FS ETIT: <https://fs-etit.kit.edu/studies/ophase/master/>

FMC: https://www.fs-fmc.kit.edu/master_o-phase

-> As always: Just google it 😊



FS MIT

- Today: Riddle with Simon
- Do 23.10. Bar Tour with Gahb
- Fr 24.10. Museum Martinee

• INTERESTING EVENTS

- Di 28.10. Bar Tour Password for the FMC Bar Tour:

FS_MASTER25

WHAT IS THE JOB OF THE STUDENT COUNCIL?



study



Previous Exams

1,0



Interested?

Get to know the Students Councils:
Mechanical Engineering 23.10.2025

Field Trips

Counselling

Partys



26.10.2025

Fachschaft Maschinenbau/Chemieingenieurwesen

8





Arbeitskreis Mechatronik
& Informationstechnik

MASTER'S PROGRAMME „MECHATRONICS AND INFORMATION TECHNOLOGY“ AT KIT (SPO 2025)



General information for your studies

WHERE CAN I FIND INFORMATION?



Website AK MIT:

ak-mit.vs.kit.edu

Website FS Mach/CIW:

fs-fmc.kit.edu

Website FS ETIT:

fs-etit.kit.edu

Website of the study programme:

www.mach.kit.edu/1982.php#

Remember to register to our E-Mail distribution list:

www.fs-fmc.kit.edu/semesterverteiler



IMPORTANT PEOPLE



- **Dean of Studies**

- Prof. Dr.-Ing. Martin Doppelbauer
(Master)
E-Mail: martin.doppelbauer@kit.edu
- Prof. Dr.-Ing. Marcus Geimer
(Bachelor, Master examination board)
E-Mail: marcus.geimer@kit.edu

- **Study Programme Service
Master MIT**

- E-Mail: master-info@etit.kit.edu
- Website:
https://www.etit.kit.edu/studiengangservice_bachelor_etit_medt_mit.php

COUNSELLING



- **Arbeitskreis MIT**
info@lists.ak-mit.vs.kit.edu,
pa@lists.ak-mit.vs.kit.edu
- **Student Councils**
 - Fachschaft MACH/CIW¹
 - Fachschaft ETIT²



- **Study Programme Service**
 - See previous slide
- **Studierendenwerk**
 - BeratungsWERK³
 - ISC – International Students Center⁴
- **IStO – International Students Office⁵**
 - Councelling for studies abroad
 - First contact point for international students



1. <https://www.fs-fmc.kit.edu/>

3. <https://www.sw-ka.de/de/beratung/beratungswerk/>

5. <https://www.intl.kit.edu/intl/isto.php>

2. <https://fs-etit.kit.edu/>

4. <https://www.sw-ka.de/de/internationales/>

COUNSELLING



- **Counselling centres**
 - Nightline Karlsruhe: nightline-karlsruhe.de
 - Telephone counselling: telefonseelsorge-karlsruhe.de
 - psychotherapeutic counselling centre for students (PBS): <https://www.sw-ka.de/de/beratung/psychologisch/>
- **AStA: asta-kit.de**
 - Legal Counselling
 - Labour Law Counselling
 - Counselling for foreigners
 - Social Counselling
 - Equal Opportunities Counselling
 - Queer Counselling



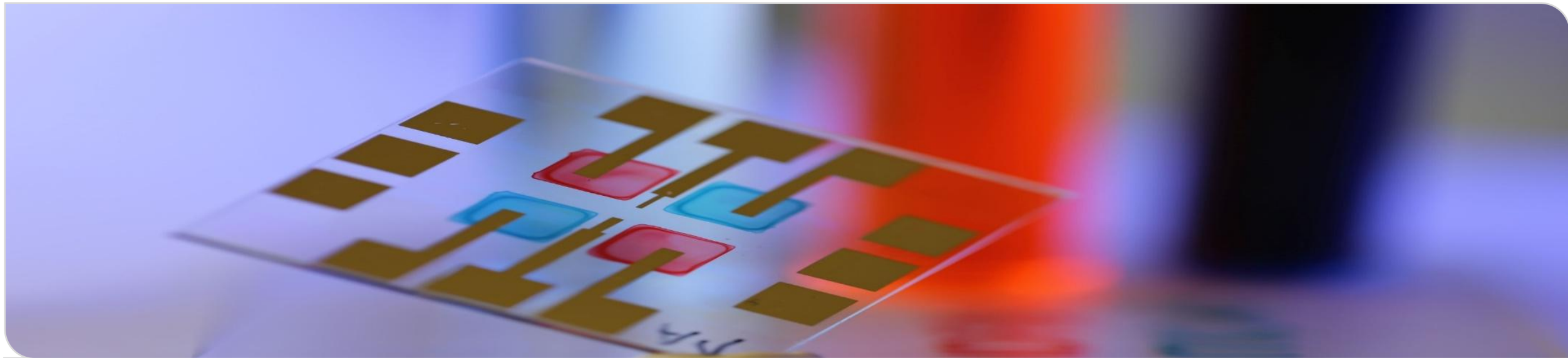


FURTHER LINKS

- Campus-Portal: <https://campus.studium.kit.edu>
- Course Catalogue: <https://studium.kit.edu/vvz>
- SCC-Accountmanagement: <https://my.scc.kit.edu/>
- ILIAS: <https://ilias.studium.kit.edu>
- Mensa Meal Plan: <https://www.sw-ka.de/de/essen/>
- KIT Library: <https://www.bibliothek.kit.edu/index.php>
- Student-Mail: <https://owa.kit.edu>

Welcome to the first Semester of Master Courses

Mechatronics and Information Technology (MIT)



Master Examination Board (PA)

- Chairman:

- Prof. Dr.-Ing. Marcus Geimer
- Institute of Vehicle System Technology
(Contact via master-info@etit.kit.edu)



- Study Programme Service:

- Gisela Schlüter
- Anastasia Wandler
- Tamara Sarter



- Processing of all applications for study derogations (deadline extensions, second repetition.....)
- Recognition of examination results in the Bachelor and Master's Program
- Examination admissions for examinations outside the faculty
- Studying abroad, such as Erasmus+, overseas, and double degree programs

Your Study Program

Chose 1 of 7 Fields of Specializations

Vehicle Systems Engineering

Energy Technology

Micro System Technology

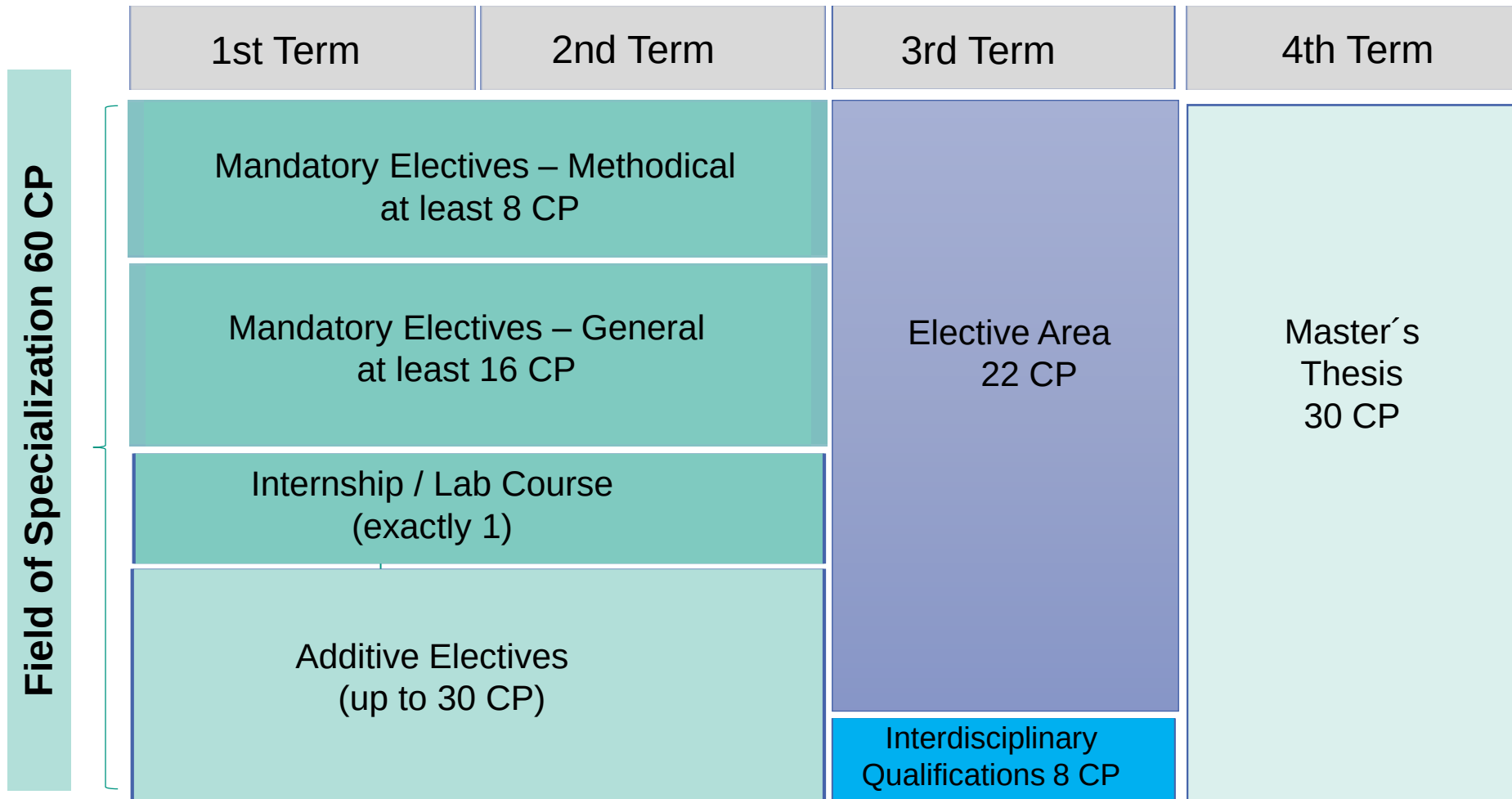
Industrial Informatics and Systems Engineering

Autonomous Systems and AI

Automation, Control and Robotics

Design of Mechatronic Systems

Your Study Programme



Your Study Programme

Field of Specialization: Energy Technology

Mandatory Electives – Methodical (Election: at least 8 credits)				
M-ETIT-100539	Communication Systems and Protocols	EN	SS	5 CP
M-MACH-107032	Mathematical Methods in Fluid Mechanics	DE/EN	WS+SS	6 CP
M-ETIT-107515	Multivariable Control Systems neu	EN	WS	6 CP
M-MATH-105831	Numerical Methods	EN	SS	5 CP
M-MATH-106972	Numerical Methods with Programming Practice	EN	SS	6 CP
M-ETIT-107497	Optimal Control neu	EN	WS	6 CP
M-MACH-107036	Numerical Fluid Mechanics	DE	SS	4 CP

[M.Sc. Mechatronics and Information Technology 2025](#)
[\(Master of Science\)](#)

Your Study Programme

Field of Specialization: Energy Technology

Mandatory Electives – General (Election: at least 16 credits)				
M-ETIT-107005	Batteries, Fuel Cells, and Electrolysis	EN	WS	6 CP
M-ETIT-100539	Communication Systems and Protocols	EN	SS	5 CP
M-ETIT-105394	Electric Power Transmission & Grid Control	EN	SS	6 CP
M-MACH-107032	Mathematical Methods in Fluid Mechanics	DE/EN	WS+SS	6 CP
M-ETIT-107515	Multivariable Control Systems neu	EN	WS	6 CP
M-MATH-105831	Numerical Methods	EN	SS	5 CP
M-MATH-106972	Numerical Methods with Programming Practice	EN	SS	6 CP
M-ETIT-107497	Optimal Control neu	EN	WS	6 CP
M-ETIT-104567	Power Electronics	EN	SS	6 CP
M-MACH-107031	Analysis Tools for Combustion Diagnostics	DE	SS	4 CP
M-ETIT-105915	Control of Power-Electronic Systems	DE	SS	6 CP
M-ETIT-100515	Design of Electrical Machines	DE	WS	5 CP
M-MACH-102707	Fundamentals of Combustion I	DE	WS	4 CP
M-MACH-102690	Fundamentals of Energy Technology	DE	SS	8 CP
M-MACH-107122	Introduction to Nuclear Energy	DE	WS	4 CP
M-MACH-107036	Numerical Fluid Mechanics	DE	SS	4 CP

Your Study Programme

Field of Specialization: Energy Technology

Internship/Lab Course (Election: 1 item)				
M-ETIT-107138	Electric Drives and Power Electronics Lab	DE/EN	SS	6 CP
M-MACH-107206	Laboratory Exercise in Energy Technology	DE/EN	WS+SS	4 CP
M-ETIT-107159	Information Systems in Power Engineering Lab	DE/EN	SS	6 CP
M-INFO-105955	Practical Course: Smart Energy System	EN	WS+SS	6 CP
M-ETIT-100381	Batteries and Fuel Cells Laboratory	DE/EN	WS	6 CP
M-ETIT-102350	Laboratory Solar Energy	DE/EN	WS+SS	6 CP

Interdisciplinary Qualifications (8 CP)

- Subjects listed in the modulehandbook
 - Difference to the lectures of specialization, mainly non-technical content
- Subjects of the Language Centre
 - One course per semester free of charge
 - <https://www.spz.kit.edu/>
- Subjects of the HoC – House of Competence
 - <https://studium.hoc.kit.edu/>
- Services of the FORUM - Studium Generale. Forum Science and Society (FORUM)
 - [FORUM - Startseite](#)



Useful information to navigate your studies

Studien- und Prüfungsordnung (SPO 2025)

Study and Examination Regulations



Modulhandbuch (SPO 2025)

Module Handbook



(New) SPO 2025 starting from summer semester 2025

→ Don't confuse with (old) SPO 2015 which is still active in parallel!



WHERE CAN I FIND THESE DOCUMENTS?

Website of the study programme:

www.mach.kit.edu/1982.php#

- Master
 - KIT degree program page
 - Module handbook, Statutes and regulation
-
- There is a new Module Handbook every semester!
 - Seperate Module Handbooks for SPO 2015 and SPO 2025

IMPORTANT TOOLS



ILIAS

- <https://ilias.studium.kit.edu/>
- Every lecture has an Ilias group
- Slides, recordings, etc.
- Communicate with the lecturer

CAS

- <https://campus.studium.kit.edu/>
- Register for exams
- See your grades

GENERAL INFO ON EXAMS



- A **failed written exam** can be **repeated once** more in written form. If the student fails the second attempt, an **oral re-examination** will be offered promptly, with the maximum achievable grade being 4,0. If the re-examination is missed, the examination is deemed to have been **finally failed**.
- A **failed oral exam** can be **repeated once more** in oral form. If the second attempt is also unsuccessful, the examination is deemed to have been definitively failed.
- Examination period and semester ends on 31 March/30 September, everything after that counts towards the next semester

GENERAL INFO ON EXAMS



- **Registration** for exams runs via the Campus Portal
 - For oral exams appointments may need to be made additionally
- Options for **de-registration** from written exams
 - Without deregistration, the test will be graded 5.0 (failed)
 - Deregistration usually in the Campus Portal up to the day before the exam
 - In person in the examination room before the exam is handed out
- Deregistration from **oral exams** up to 3 working days before the exam (Sundays and public holidays don't count)

RECOGNITION OF COURSES OF PREVIOUS STUDIES



- Has to be requested during the first semester
- Equivalent achievements already completed can be recognised (e.g. “Mastervorzug”, other degree programmes)
- Submit form to the study programme service
- Further Infos and form:
<https://www.mach.kit.edu/4522.php>



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QUESTIONS?