

Catalogue Major / Minor



Module Type	Module Number	Module Name	Semester 2	Semester 3	Credit Points
			L/E/S/PC	L/E/S/PC	
Compulsory Module	OME-M1	Major	2/0/0/4*	2/0/0/0* E	10
	OME-M2	Minor	2/0/0/0*	2/0/0/0* E	5
L/E/S/PC Lectures/Exercises/Seminars/Practical Courses					
E Exams					
* Depending on Students' Choice					

Module Major

Objectives

Students will be able to orient themselves within a specialist field and be familiar with the latest developments in that field. The fields of choice are Photophysics of Organics or Electronic Systems. They will possess in-depth knowledge of current issues and the latest developments in the chosen area.

Contents

The student chooses courses from one of the two following specialist areas:

- Physics **OR**
- Electronics

The module comprises of two semesters starting in the summer semester (normally Semester 2).

Module Minor

Objectives

Students will be able to orient themselves within an additional specialist field and be familiar with the latest developments within that field. The fields of choice are Organic Materials or Complex Nanomaterials. They will possess in-depth knowledge of current issues and the latest developments in the chosen area.

Contents

The student chooses courses from one of the two following specialist areas:

- Chemistry **OR**
- Nanotechnology

The module comprises one semester.

Organization of your Major/Minor courses

Over the whole study course, you must complete:

- In your Major: **two courses** (with two exams) and a **lab course****
- In your Minor: **two courses** (with two exams)

The organization of **lab courses varies according to your chosen specialization area, i.e., it may or may not be integrated in the courses. Please discuss with your lecturers. You must submit your [result sheet](#) to the examination office. The lab course is not graded.

More [info](#)

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MAJOR Physics			
Course	Lecturer	Fac/Inst	Semester
Nanotechnology	Eng	IAPP	SoSe
Magnetism on the Nanoscale	Büchner	Physics	WiSe
Soft Condensed Matter Theory	Sommer	Physics	SoSe
Nanooptics	Eng	IAPP	WiSe
Applied Studies in Organic Electronics	Reineke	IAPP	SoSe
Scanning Probe Microscopy	Eng	IAPP	SoSe

MAJOR Electronics			
Course	Lecturer	Fac/Inst	Semester
Memory Technology	Mikolajick	ETIT	Wi/SoSe
Optoelectrical Devices	Lakner	ETIT	WiSe
Radio Frequency Integrated Circuits	Ellinger	ETIT	SoSe
Hardware Software Codesign	Fettweis	ETIT	SoSe
Modeling and Characterisation of Electron Devices	Schröter	ETIT	SoSe
Vacuum Technology	Bartha	ETIT	WiSe
Integrated Circuits for Broadband Optical Communications	Ellinger	ETIT	WiSe
Organic Field Effect Devices	Mannsfeld	ETIT	WiSe
Bioelectronics & Neuromorphic Computing with Organic Electro-Chemical Transistors	Kleemann	IAPP	SoSe

MINOR Chemistry			
Course	Lecturer	Fac/Inst	Semester
Quantum Chemistry	Heine	Chemistry	WiSe
Surface Chemistry	Werner	IPF	WiSe
Advanced Materials in Organic Electronics	Lissel	IPF	WiSe

MINOR Nanotechnology			
Course	Lecturer	Fac/Inst	Semester
Nanostructured Materials	Cuniberti	MS&E	SoSe
Molecular Nanostructures	Büchner	Physics	SoSe
Diffraction Methods in Macromolecular- and Nanoscience	Braun	IPF	WiSe
Nanotechnology	Eng	IAPP	SoSe
Magnetism on the Nanoscale	Büchner	Physics	WiSe