

Specialisation Energy Systems

1. Specialisation module with laboratory course 1-2 (M1-M2). Choose two modules from this list:

	Module	ECTS	Contact person	Summer term (SS) or winter (WS) term
Module 1	Process Simulation with laboratory course	7,5	Prof. Dr.-Ing. Bastian Etzold	WS
Module 2	Process Control and Plant Safety with laboratory course	7,5	Prof. Dr.-Ing. Andreas Bück	SS
Module 3	Phosphors for Light Conversion in Photovoltaic Devices and LEDs with laboratory course	7,5	PD Dr.-Ing. habil. Miroslaw Batentschuk	WS

2. Specialisation module 1-4 (M3-M6). Choose four modules from this list:

	Module	ECTS	Contact person	Summer term (SS) or winter (WS) term
Module 1	Efficient heat transfer	5	Prof. Dr.-Ing. habil. Andreas Paul Fröba	SS
Module 2	Life cycle assessment	5	Prof. Dr. Martin Hartmann	SS
Module 3	Phosphors for Light Conversion in Photovoltaic Devices and LEDs	5	PD Dr.-Ing. habil. Miroslaw Batentschuk	WS
Module 4	Process Control and Plant Safety	5	Prof. Dr.-Ing. Andreas Bück	SS

* Module "Aeroacoustics" shall be taken after Module "Aerodynamics" only

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Module 5	Process simulation	5	Prof. Dr.-Ing. Bastian Etzold	WS
Module 6	Quantitative Methods in Energy Market Modelling	5	Prof. Dr. Gregor Zöttl	SS
Module 7	Energy transition analysis: Bridging techno-economic, business, and policy perspectives **	5	Dr. Aksornchan Chaianong	WS

3. Compulsory elective module 1-3 (M7-M9). Choose three modules from this list:

	Module	ECTS	Contact person	Summer term (SS) or winter (WS) term
Module 1	Process systems dynamics 2	5	Prof. Dr.-Ing. Andreas Bück	SS
Module 2	Scientific computing in engineering 2	5	Prof. Dr. Jens Harting	WS
Module 3	Polymer Recycling	5	Dr. Jochen Schmidt	WS
Module 4	Recycling of Electronic Wastes	5	Dr. Monica Distaso	WS

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Clean Energy Processes (M. Sc.), List of modules*subject to change*

Module 5	Aerodynamics	5	apl. Prof. Dr.-Ing. habil. Stefan Becker	SS
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Module 6	Aeroacoustics*	5	apl. Prof. Dr.-Ing. habil. Stefan Becker	WS
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4. Elective module from other specialisation 1-2 (M10-M11). See module list of Specialisation Energy Technologies (only modules M3-M6).

5. Elective module 1-2 (M12-M13). Soft skills, language courses (except English and native language), „Schlüsselqualifikationen“ offered at the FAU.

6. Seminar sustainability and environmental ethics (M14)

7. Internship (M15)

8. Advanced seminar (M16)

9. Master's thesis (M17)

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