

### 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	Dr.-Ing. Patrick Preuster	WS
Module 2	Process Control and 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	Economics of climate change	5	Prof. Dr. Veronika Grimm	WS
Module 2	Efficient heat transfer	5	Prof. Dr.-Ing. habil. Andreas Paul Fröba	SS
Module 3	Life cycle assessment	5	Prof. Dr. Martin Hartmann	SS
Module 4	Phosphors for Light Conversion in Photovoltaic Devices and LEDs	5	PD Dr.-Ing. habil. Miroslaw Batentschuk	WS

**Specialisation Energy Systems**

Module 5	<b>Process Control and Safety</b>	5	Prof. Dr.-Ing. Andreas Bück	SS
Module 6	<b>Process simulation</b>	5	Dr.-Ing. Patrick Preuster	WS
Module 7	<b>Quantitative Methods in Energy Market Modelling</b>	5	Prof. Dr. Gregor Zöttl	SS

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

	<b>Module</b>	<b>ECTS</b>	<b>Contact person</b>	<b>Summer term (SS) or winter (WS) term</b>
Module 1	<b>Process systems dynamics 2</b>	5	Prof. Dr.-Ing. Andreas Bück	SS
Module 2	<b>Energy process technology</b>	5	Prof. Dr. Andreas Hornung	SS
Module 3	<b>Scientific computing in engineering 2</b>	5	Prof. Dr. Jens Harting	WS
Module 4	<b>Biocatalytic Energy Systems</b>	5	Prof. Dr. Katharina Herkendell	SS

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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)