

**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	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

\* not in summer term (SS) 2024

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Module 5	<b>Process Control and Plant Safety</b>	5	Prof. Dr.-Ing. Andreas Bück	SS
Module 6	<b>Process simulation</b>	5	Prof. Dr.-Ing. Bastian Etzold	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*
Module 5	<b>Polymer Recycling</b>	5	Dr. Jochen Schmidt	WS

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Module 6	<b>Recycling of Electronic Wastes</b>	5	Dr. Monica Distaso	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)**