

**Specialisation Energy Technologies**

**1. Specialisation module with laboratory course 1-2 (M1-M2). Choose two 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>Clean Combustion Technology with laboratory course</b>	7,5	PD Dr. Lars Zigan, M.Sc.	SS
Module 2	<b>Power electronics with laboratory course</b>	7,5	Prof. Dr.-Ing. Martin März	SS
Module 3	<b>Thin-film processing with laboratory course</b>	7,5	Prof. Dr. rer. nat. Nicolas Vogel	WS
Module 4	<b>Photovoltaic Systems – Fundamentals with laboratory course</b>	7,5	Prof. Dr.-Dipl.-Ing Christoph J. Brabec	WS

**2. Specialisation module 1-4 (M3-M6). Choose four 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>Batteries</b>	5	Prof. Dr.-Ing. Simon Thiele	SS
Module 2	<b>Clean Combustion Technology</b>	5	PD Dr. Lars Zigan, M.Sc.	SS
Module 3	<b>Fuel cells and electrolyzers</b>	5	Prof. Dr.-Ing. Simon Thiele	WS
Module 4	<b>Photovoltaic Systems – Fundamentals</b>	5	Prof. Dr.-Dipl.-Ing Christoph J. Brabec	WS

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Module 5	<b>Power electronics</b>	5	Prof. Dr.-Ing. Martin März	SS
Module 6	<b>Pumps and turbines</b>	5	apl. Prof. Dr.-Ing. habil. Stefan Becker	WS
Module 7	<b>Renewable thermal power plants</b>	5	Prof. Dr.-Ing. Michael Wensing	WS
Module 8	<b>Thin-film processing</b>	5	Prof. Dr. rer. nat. Nicolas Vogel	WS

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

Module 1	<b>Microfluidics and microfluidic devices</b>	5	Prof. Dr.-Ing. Simon Thiele	WS
Module 2	<b>Experimental fluid mechanics</b>	5	Prof. Dr. rer. nat. habil. Andreas Wierschem	SS
Module 3	<b>Polymer science and processing</b>	5	Prof. Dr. rer. nat. Nicolas Vogel	WS, SS
Module 4	<b>Optical Diagnostics in Energy and Process Engineering</b>	5	Prof. Dr.-Ing. Stefan Will	WS
Module 5	<b>Self-organisation processes</b>	5	Prof. Dr. Michael Engel	SS

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4. Elective module from other specialisation 1-2 (M10-M11). See module list of Specialisation Energy Systems (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)