

Specialisation Energy Technologies

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	Clean Combustion Technology with laboratory course	7,5	Prof. Dr.-Ing. Stefan Will	SS
Module 2	Power electronics for decentral energy systems with laboratory course	7,5	Prof. Dr.-Ing. Martin März	SS
Module 3	Thin-film processing with laboratory course	7,5	Prof. Dr. rer. nat. Nicolas Vogel	WS
Module 4	Photovoltaic Systems – Fundamentals with laboratory course	7,5	Prof. Dr.-Dipl.-Ing Christoph J. Brabec	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	Electrical Energy Storage Systems	5	Dr.-Ing. Bernd Eckardt	SS
Module 2	Clean Combustion Technology	5	Prof. Dr.-Ing. Stefan Will	SS
Module 3	Fuel cells and electrolyzers	5	Prof. Dr.-Ing. Simon Thiele	WS
Module 4	Photovoltaic Systems – Fundamentals	5	Prof. Dr.-Dipl.-Ing Christoph J. Brabec	WS

* not in summer term (SS) 2024

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

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

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

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Module 6	Chemical Technologies for the Energy Transition	5	Prof. Dr. Tanja Franken	SS
Module 7	Particle Technology	5	Prof. Robin Klupp Taylor	SS
Module 8	Polymer Recycling	5	Dr. Jochen Schmidt	WS
Module 9	Recycling of Electronic Wastes	5	Dr. Monica Distaso	WS
Module 10	Turbulence I	5	Prof. Dr. Jovan Jovanovic	SS
Module 11	Turbulence II	5	Prof. Dr. Jovan Jovanovic	WS

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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)