

**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	Prof. Dr.-Ing. Stefan Will	SS
Module 2	<b>Power electronics for decentral energy systems 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>Electrical Energy Storage Systems</b>	5	Dr.-Ing. Bernd Eckardt	SS
Module 2	<b>Clean Combustion Technology</b>	5	Prof. Dr.-Ing. Stefan Will	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

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

Module 5	<b>Power electronics for decentral energy systems</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>Experimental fluid mechanics</b>	5	Prof. Dr. rer. nat. habil. Andreas Wierschem	SS
Module 2	<b>Polymer science and processing</b>	5	Prof. Dr. rer. nat. Nicolas Vogel	SS
Module 3	<b>Optical Diagnostics in Energy and Process Engineering</b>	5	Prof. Dr.-Ing. Stefan Will	WS
Module 4	<b>Self-organisation processes</b>	5	Prof. Dr. Michael Engel	SS
Module 5	<b>Computational Fluid dynamics I</b>	5	Dr.-Ing. Manuel Münsch	WS

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

Module 6	<b>Particle Technology</b>	5	Prof. Robin Klupp Taylor	SS
Module 7	<b>Polymer Recycling</b>	5	Dr. Jochen Schmidt	WS
Module 8	<b>Recycling of Electronic Wastes</b>	5	Dr. Monica Distaso	WS
Module 9	<b>Turbulence I</b>	5	Prof. Dr. Jovan Jovanovic	SS
Module 10	<b>Chemical Technologies for the Energy Transition</b>	5	apl. Prof. Dr. Marco Haumann	SS

**4. Elective module from other specialisation 1-2 (M10-M11). See module list of Specialisation Energy Systems (only modules M3-M6).**

**Choose two modules.**

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

**6. Seminar sustainability and environmental ethics (M14)**

**7. Internship (M15)**

**8. Advanced seminar (M16)**

**9. Master’s thesis (M17)**