Electromobility is more than just a trend – it’s redefining the way we get around. Imagine a world where vehicles glide silently and glide through the streets with zero emissions. Electromobility is the path to a sustainable and climate-friendly transportation system based on renewable energies. It is the key to combating climate change!
The ACES fields of specialization in the interdisciplinary electromobility degree program go far beyond pure electromobility and reflect the competencies of the Faculty of Engineering and the fields of action for the future of mobility: AI & Autonomous driving, Connectivity, E-powertrain, Sustainable mobility & Production technology.
Electromobility is a central component of a sustainable and climate-friendly transport system based on renewable energies.
According to current studies, electric cars will already be cheaper to manufacture than combustion-powered cars from around 2025 on. For this reason, the industry is already looking for engineers with in-depth knowledge of electromobility.
The requirements for a new course of study in “electromobility” go far beyond the pure electrification of e.g. combustion drives. The study program “Electromobility-ACES” (“ACES” based on/further developed from the “McKinsey ACES 2019 survey”) with its four specialization areas “ACES” takes this into account. These reflect the competencies of the Faculty of Engineering for the future of mobility as follows:
The interdisciplinary course of studies bundles the extensive existing competences of the Faculty of Engineering in these areas in teaching and represents an attractive offer for prospective students.
In the course of your studies, you will acquire in-depth knowledge in all these areas, which you can use in your later professional life.
Possible career fields include
Your fields of application are versatile and varied. In addition to the large automotive companies, mobility groups and aviation, supplier companies as well as startups are also possible.
31.05.
31.10.
We strongly recommend applicants from non-EU countries like India, Pakistan, China etc. to submit the results of an international standard graduate test. This will strongly improve your chances of admission, since only about 10 % of our applicants get an admission to our master’s program and the submission of a standard graduate test makes it much easier for us to assess your academic performance. The following tests are accepted:
Please note the information on the page
https://www.aces.study.fau.eu/prospective-students/application-for-the-masters-degree-program/#collapse_1
Language Requirements: International applicants require:
For the Master’s program in English, proof of English language skills at a level of at least C1 of the Common European Framework of Reference (CEFR); for examples of possible proofs, please refer to the equivalency table of the FAU Language Center.
For the Master’s program in German, in deviation from § 4 para. 5 no. 14 sentence 1 b) Statutes of the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) concerning enrollment, re-registration, leave of absence and exmatriculation (ImmaS), proof of German language skills at the following level:
Evidence that deviates from this will be examined individually by the Admissions Committee for relevance.
Our Student Advice and Career Service (IBZ) is the central point of contact for all questions about studying and starting a degree programme. Our Student Service Centres and subject advisors support you in planning your studies.

Degree: Master of Science
Duration of studies in semester: 4
Start of degree program: Summer semester, Winter semester
Study location: Erlangen
Number of students: 250-600
Subject group: Engineering sciences
Special ways to study: International degree program, Part-time degree program
Teaching language: German or English
Admission Requirements: Qualification assessment
Admission requirements (first semester): Qualification assessment
Application deadline winter semester: 31.05.
Application deadline summer semester: 31.10.
Content-related admission requirements: We strongly recommend applicants from non-EU countries like India, Pakistan, China etc. to submit the results of an international standard graduate test. This will strongly improve your chances of admission, since only about 10 % of our applicants get an admission to our master's program and the submission of a standard graduate test makes it much easier for us to assess your academic performance. The following tests are accepted:

„Graduate Record Examination (GRE)" as "subject test physics", "subject test mathematics" or "General Test" (https://www.ets.org/gre.html)
„Graduate Aptitude Test in Engineering" (GATE) with an engineering test paper (https://gate2024.iisc.ac.in/)
other standard standard tests will be evaluated by our admission commission

Please note the information on the page https://www.aces.study.fau.eu/prospective-students/application-for-the-masters-degree-program/#collapse_1
German language skills for international applicants: DSH 2 or equivalent
General language skills: Language Requirements: International applicants require:
For the Master's program in English, proof of English language skills at a level of at least C1 of the Common European Framework of Reference (CEFR); for examples of possible proofs, please refer to the equivalency table of the FAU Language Center.
For the Master's program in German, in deviation from § 4 para. 5 no. 14 sentence 1 b) Statutes of the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) concerning enrollment, re-registration, leave of absence and exmatriculation (ImmaS), proof of German language skills at the following level:

at least DSH-2 with at least 74% of the attainable points each in the written and oral part of the examination
alternatively TestDAF with at least 4 points in each section and 5 points in at least one section

Evidence that deviates from this will be examined individually by the Admissions Committee for relevance.