order number	Graduation Requirements for the Electrical Engineering and Automation Major at Kunming University	EUR-ACE® Standard Core Clauses	ASIIN Certification Corresponding Standards (TC02: Electrical/Electronic Information Technology Specialized Field)
1	Engineering Knowledge: Ability to integrate mathematical, natural science, fundamental engineering principles, and specialized knowledge to apply these skills in solving complex engineering problems within the field of electrical engineering, such as power systems, electrical energy conversion, and electrical control.	EUR-ACE 5.2.1: Apply mathematical, natural science, fundamental engineering principles, and specialized knowledge to solve complex engineering problems; master the core theories and methods of engineering disciplines.	ASIIN 1.3: The curriculum system comprehensively covers the core content of mathematics, natural sciences, and engineering fundamentals, achieves the required depth of knowledge, and is capable of supporting the resolution of complex problems in electrical engineering.
2	Problem Analysis: The ability to apply fundamental principles from mathematics, natural sciences, engineering fundamentals, and professional knowledge to identify, articulate, and analyze complex engineering problems in the field of electrical engineering through literature review, thereby deriving valid conclusions.	EUR-ACE 5.2.2: Identify and define complex engineering problems based on scientific principles, and develop effective solutions through literature review and analysis.	ASIIN 2.1: To cultivate students' ability in problem analysis and literature review; the teaching process includes problem identification, literature search, and solution evaluation training.
3	Solution Design and Development: Capable of designing solutions for complex engineering problems in the field of electrical engineering;	EUR-ACE 5.2.3: Design complex engineering systems, components, or processes by	ASIIN 2.2: The design phase covers power system and electrical component design, integrates innovative development and

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	capable of designing power systems and individual components that meet specific requirements; demonstrating an innovative mindset while taking into account factors such as society, health, safety, legal considerations, culture, and the environment.	integrating innovative thinking and comprehensively considering constraints related to health, safety, legal requirements, culture, and the environment.	consideration of multiple constraints, while the practical teaching component includes comprehensive engineering design training.
4	The objective of this study is to enable students to investigate complex engineering problems in the field of electrical engineering based on scientific principles and by employing scientific methods such as designing experiments, analyzing, and interpreting data, thereby deriving reasonable and effective conclusions through information synthesis.	EUR-ACE 5.2.4: Employ scientific methods to conduct engineering research, design experiments, collect and analyze data, and draw reasonable conclusions.	ASIIN 2.3: The experimental teaching system is comprehensive, designed to cultivate students' abilities in experimental design, data processing, and research report writing.
5	Use of modern tools: Ability to develop, select, and utilize appropriate technologies, resources, modern engineering tools, and information technology tools to address complex engineering problems in the field of electrical engineering—including the prediction and simulation of such	EUR-ACE 5.2.5: Select and utilize appropriate modern engineering tools, techniques, and resources to solve complex engineering problems, while understanding the limitations of these tools.	ASIIN 2.4: The curriculum covers the use of modern tools in electrical engineering, equipped with software and hardware that comply with industry standards, with tool application integrated throughout the entire teaching process.

order number	Graduation Requirements for the Electrical Engineering and Automation Major at Kunming University	EUR-ACE® Standard Core Clauses	ASIIN Certification Corresponding Standards (TC02: Electrical/Electronic Information Technology Specialized Field)
	complex engineering problems—and to understand their limitations.		
6	Engineering and Society: Students shall be able to conduct rational analyses based on relevant background knowledge in electrical engineering; evaluate the impact of professional engineering practices and solutions to complex engineering problems on society, health, safety, law, and culture; and understand their associated responsibilities.	EUR-ACE 5.2.6: Understand the relationship between engineering and society; evaluate the impact of engineering practices on public health, safety, law, and culture; and fulfill the responsibilities of an engineer.	ASIIN 3.1: Integrate education on engineering ethics, social responsibility, and legal regulations to cultivate students' engineering social perspective and sense of responsibility.
7	Environment and Sustainable Development: Ability to understand and evaluate the impact of engineering practices addressing complex engineering problems in the field of electrical engineering on environmental and social sustainable development.	EUR-ACE 5.2.7: Evaluate the impact of engineering activities on the environment and social sustainable development, and adhere to the principles of green, low-carbon, and sustainable engineering.	ASIIN 3.2: Integrating environmental engineering and sustainable development concepts, with both teaching and practical components reflecting green engineering principles and energy conservation and emission reduction requirements.
8	Professional Standards: Possess a foundation in humanities and social sciences and a sense of social responsibility; be able to understand and adhere to engineering	EUR-ACE 5.2.8: Possesses strong professional ethics and humanistic literacy, and adheres to the professional codes	ASIIN 3.3: Conduct education on professional ethics and industry standards to cultivate students' professional competence and compliance

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	professional ethics and standards in engineering practice, and fulfill their responsibilities.	of practice, ethical guidelines, and applicable laws and regulations within the engineering profession.	awareness.
9	Individuals and Teams: Possess a strong sense of teamwork and are able to assume individual, team member, or project leader roles within multidisciplinary teams.	EUR-ACE 5.2.9: Ability to work effectively within multidisciplinary teams, demonstrating teamwork, communication and coordination skills, and role competence.	ASIIN 4.1: Develop teamwork and interdisciplinary communication skills through course design, project-based practice, and university-enterprise collaboration.
10	Communication: Ability to effectively communicate and interact with industry peers and the general public regarding complex engineering challenges in the field of electrical engineering; this includes drafting reports and design documents, delivering presentations, articulating ideas or responding to instructions; possessing a broad international perspective; and being able to communicate and interact within cross-cultural contexts.	EUR-ACE 5.2.10: Ability to communicate effectively (verbally and in writing) regarding complex engineering issues, with strong cross-cultural and cross-disciplinary communication skills.	ASIIN 4.2: To cultivate students' abilities in Chinese–English communication, report writing, and academic exchange; this program includes bilingual communication training and English report writing exercises.
11	Project Management: Understand and master the principles of engineering management and economic	EUR-ACE 5.2.11: Master the principles of engineering	ASIIN 4.3: Integrates engineering management and project control elements; the

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	decision-making methods, and be able to apply them in multidisciplinary settings.	management; possess the competencies required for project planning, budgeting, scheduling, quality control, and risk management; and be able to apply these skills within a multidisciplinary environment.	practical projects include full-process management training and are designed to accommodate multidisciplinary application scenarios.
12	Lifelong Learning: Possess awareness of self-directed learning and lifelong learning, as well as the ability to fully leverage one's subjective initiative to engage in continuous learning to adapt to societal changes and the evolving landscape of electrical engineering.	EUR-ACE 5.2.12: Equipped with self-directed learning and lifelong learning capabilities to adapt to the rapid advancements in engineering and technology, and to continuously update professional knowledge and skills.	ASIIN 5.1: Foster an awareness of self-directed learning and lifelong learning; the curriculum framework incorporates space for knowledge expansion to support continuous learning and enable adaptation to industry developments.

Comparison Table of Graduation Requirements for Electrical Engineering and Automation

School of Mechanical and Electrical Engineering, Kunming University

vs. EUR-ACE / ASIIN Standards

table