



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Electric Vehicle Propulsion and Control (E-PiCo)

Kiel University • Kiel

Overview

Degree	Master of Science (MSc) in Electric Vehicle Propulsion and Control
In cooperation with	<ul style="list-style-type: none">• École Centrale de Nantes (Nantes, France)• Università degli Studi dell'Aquila (L'Aquila, Italy)• National University of Science and Technology Politehnica Bucharest (Bucharest, Romania)
Teaching language	<ul style="list-style-type: none">• English
Languages	<p>All courses are taught in English.</p> <p>In addition, in the first and second semesters, students take a language course (in the national language of the country where the respective university is located) as a non-technical module.</p>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	<p>Please find information regarding the application deadline on the following website: https://master-epico.ec-nantes.fr/admission/deadlines.</p> <p>Please note that there are different deadlines for applicants. If you wish to apply for an Erasmus Mundus or Consortium scholarship, your complete application needs to be submitted before 31 January every year. If you are self-financing your studies, the deadline is 31 May for non-European students and 22 June for European students.</p>
Tuition fees per semester in EUR	Yes
Additional information on tuition fees	<p>Information on tuition fees / participation costs can be found on the following website: https://master-epico.ec-nantes.fr/admission/fees-scholarships.</p>
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	<p>The Master's degree programme in Electric Vehicle Propulsion and Control (E-PiCo) is an Erasmus Mundus programme jointly offered by the following four partner universities: École Centrale de Nantes (Nantes, France), Università degli Studi dell'Aquila (L'Aquila, Italy), National University of Science and Technology Politehnica Bucharest (Bucharest, Romania) and Christian-Albrechts-</p>

Universität zu Kiel (Kiel, Germany). Within the framework of this programme, students study at least two of the above-mentioned universities. All courses are held in English. At the different university locations, students also gain insight into the language and culture of the respective country.

The E-PICo Master's degree programme deals with the challenges resulting from electrification in road and shipping traffic as well as in the transport industry. It offers academic education across the entire range of electric drive systems (including charge and power optimisation, energy management, battery life cycle, power electronics, control and automation technology) with the various technological specialisations of the partner universities.

By involving local and international industrial partners in the degree programme, students will not only have contact with renowned researchers at the various universities but will also be able to gain practical experience with potential future employers during their studies.

Website: master-epico.ec-nantes.fr/

Facebook: www.facebook.com/masterepico/

Instagram: www.instagram.com/master_epico/

LinkedIn: www.linkedin.com/company/e-pico/

Course Details

Course organisation

The first semester (S1) is focused on equipping students with a solid background in the main areas of automatic control and electric vehicles.

The second semester (S2) provides students with a solid background in electric vehicle components.

During the third semester (S3), specialisations are offered. The specialisations offered during the third semester at the various partner institutions depend on their specific research orientations. The following specialisations are offered:

- Energy storage systems (National University of Science and Technology Politehnica Bucharest, Romania)
- Control of electric propulsion system (Ecole Centrale de Nantes, France)
- Control in e-mobility (Kiel University, Germany)
- Embedded systems and communications in e-mobility systems (Università degli Studi dell'Aquila, Italy)

The fourth semester (S4) focuses on the Master's thesis.

Detailed information on the curriculum and descriptions of the modules included in the programme can be found on the following website: <https://master-epico.ec-nantes.fr/curriculum>.

International elements

- Integrated/optional study abroad unit(s)

Integrated/optional study abroad unit(s)

This is a degree programme in which you study at the four partner universities mentioned for a minimum of two, and a maximum of three semesters.

Special promotion / funding of the programme

- ERASMUS+

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses No

Costs / Funding

Tuition fees per semester in EUR Yes

Additional information on tuition fees Information on tuition fees / participation costs can be found on the following website: <https://master-epico.ec-nantes.fr/admission/fees-scholarships>.

Semester contribution An **enrolment fee** ("Einschreibgebühr") of 55 EUR is charged for the first enrolment at Kiel University. A **semester contribution** ("Semesterbeitrag") currently amounting to 269 EUR must be paid each semester. This covers free public transport ("landesweites Semesterticket") for trains and buses in Schleswig-Holstein and Hamburg, reduced lunch prices, a culture ticket and other benefits for students.

Costs of living The monthly costs of living in Germany are currently at least 934 EUR per month. Please note that when applying for a visa (from countries requiring a visa) and also later in Germany when extending a residence permit, financial means in the amount of the living costs for one year (11,208 EUR) must be proven.

More information can be found here: www.international.uni-kiel.de/en/incomings/planning-arrival-and-stay/visa.

Funding opportunities within the university Yes

Description of the above-mentioned funding opportunities within the university Please find more information on possible scholarships here: <https://master-epico.ec-nantes.fr/admission/fees-scholarships>.

Requirements / Registration

Academic admission requirements Please find information regarding the academic admission requirements on the following website: <https://master-epico.ec-nantes.fr/admission/how-to-apply>

Language requirements Please find information on the language requirements on the following website: <https://master-epico.ec-nantes.fr/admission/how-to-apply>

Application deadline Please find information regarding the application deadline on the following website: <https://master-epico.ec-nantes.fr/admission/deadlines>.

Please note that there are different deadlines for applicants. If you wish to apply for an Erasmus Mundus or Consortium scholarship, your complete application needs to be submitted before 31 January every year. If you are self-financing your studies, the deadline is 31 May for non-European students and 22 June for European students.

Submit application to

Information on application and admission can be found in the "Admission" section on the following website: <https://master-epico.ec-nantes.fr/admission/how-to-apply>

Please contact Centrale Nantes (France), the coordinator of the E-PiCo Erasmus Mundus programme, via the e-mail address epico@ec-nantes.fr if you have questions about the application process.

Services

Accommodation

Please find information on accommodation in Kiel on the following website: www.international.uni-kiel.de/en/incomings/planning-arrival-and-stay/accomodation.

Support for international students and doctoral candidates

- Welcome event
- Accompanying programme
- Visa matters

Our Partners



Kiel University Interfaces

Kiel University (CAU) uses research, teaching and the transfer of science to address the great challenges of our time in health, environmental and cultural change, technology and energy. In doing so, it ensures peace and preserves livelihoods for future generations.

» more:
https://www.youtube.com/watch?v=WYX_XFd0ROM

Kiel University



Kiel University

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Kiel University (also referred to as the CAU) was founded in 1665. It is Schleswig-Holstein's oldest, largest and best-known university, with 27,000 students and 3,700 staff members. It is also the only full-fledged university in the state. Seven Nobel Prize winners have worked here. The CAU has been successfully taking part in the Excellence Initiative since 2006.

We use research, teaching and the transfer of science to address the great challenges of our time in health, environmental and cultural change, nutrition and energy. In doing so, we ensure peace and preserve livelihoods for future generations. We use responsible actions to make sure that scientific discoveries are transferred into all sectors of our society by interdisciplinary thought – regardless of short-lived trends – where they are incorporated into political, economic and social decisions aimed at securing peace and prosperity.

When it was founded back in 1665, the CAU had the motto “Pax Optima Rerum: peace is the most valuable asset.” This maxim is as applicable today as it was over 350 years ago. We want to follow this key idea and contribute towards creating a peaceful, fair world in which everyone lives freely and comfortably. We aim to create a world in which treating the environment with respect also enables future generations to enjoy the same benefits.

CAU's mission:

Our mission is to deliver research and teaching that contribute to peace, prosperity and maintaining a pluralistic, free society as well as address the challenges we are facing. Our strong disciplines carry out this mission. The fulfilment of this mission requires interdisciplinary collaboration and involves transdisciplinary issues. We find solutions to today's pressing problems and implement these solutions together with stakeholders from society, industry and politics.

Teaching profile:

We are dedicated to research-based teaching and learning. Therefore, the development of new teaching approaches is evolving constantly at the interfaces between research from the different scientific disciplines. Students from all over the world benefit from this: research results are quickly integrated into programme curricula and our academic staff is trained in state-of-the-art teaching methods.

Research profile:

The CAU is Schleswig-Holstein's only full-fledged university with a major focus on research. Over time, four dynamic priority research areas have systematically developed. These are based on strong disciplines interacting together – Marine Science, Life Science, Societal and Cultural Change, and Nano Surface and Interface Science. Each individual research area makes a substantial contribution towards dealing with at least one of the grand challenges of our time.

Transfer profile:

A university is not an island. It is an entity that impacts on, with and for society in a number of ways, by offering space for new ideas, passing on knowledge and values, and enabling debates about controversial subjects. Universities train specialists, produce innovative products and start-ups, help companies to develop further and assist politics by giving advice and warnings. The CAU encompasses top quality, innovative science, a sense of responsibility and the transfer of knowledge. We advocate for the university's active role in society and aim to work closely together with the community to be the driving force behind regional, national and international development by looking for and finding pioneering solutions for our most pressing issues. This is the reason why we maintain a variety of active connections with our partners in science, industry, politics and society.

[Read more about our profiles.](#)

University location

The city of Kiel is located directly on the Baltic Sea coast and is the capital of the northernmost German federal state, Schleswig-Holstein. Famous for its sailing tradition, Kiel has hosted two Olympic sailing competitions. The city's annual "Kiel Week" is the world's largest sailing event and one of the biggest cultural festivals in northern Europe. Kiel's international flair is enhanced by its port, where Scandinavian ferries dock next to cruise liners and historic ships. Those who enjoy going out will benefit from the city's lively cultural life as well as the many clubs and bars to be found between the campus and the city centre. Kiel is a strong centre of science and research. Our students benefit from studying by the sea in a city that offers short distances and a wide range of leisure facilities by the waterside. It takes less than 20 minutes to get from the lecture hall to the beach. A fresh breeze on your face and the right books on hand create a great atmosphere for learning. The social conditions for studying in Kiel are excellent. Freshmen receive a welcome payment of 100 EUR when they come to Kiel to commence their undergraduate studies. They have the opportunity to live in one of the many halls of residence, which are reasonably priced and situated close to the universities. In our bicycle-friendly city, not only the universities but also other inner-city locations can be reached conveniently by bike. The new scientific generation represents the most important resource for making Kiel, the state capital, fit for the future.

www.kiel.de.

Contact

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🌐 Course website: <https://master-epico.ec-nantes.fr/>

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🌐 <https://www.linkedin.com/school/kieluni/>

📷 <https://www.instagram.com/kieluni/>

📺 <https://www.youtube.com/kieluni/>

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Disclaimer

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