



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Language course/short course



Biomedical Engineering 2023

Jade University of Applied Sciences Wilhelmshaven/Oldenburg/Elsfleth •
Wilhelmshaven

Overview

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|--------------------------|---|
| Course location | Wilhelmshaven |
| Teaching language | <ul style="list-style-type: none">English |
| Language level of course | <ul style="list-style-type: none">English: B2 |
| Date(s) | <ul style="list-style-type: none">August 28 - September 15, 2023 (Registration deadline of course provider: May 15, 2023) |
| Target group | Bachelor's and Master's students of a degree programme in biomedical engineering, mechatronics, electrical engineering, precision mechanics, or physical engineering |
| Description/content | <p>The Department of Engineering Sciences and the International Office of Jade University offer a three-week summer school in Biomedical Engineering. The summer school covers "Biomedical Signal and Image Acquisition, Processing and Analysis".</p> <p>Our ageing human society puts severe constraints on health care systems with regard to the demands of costs, quality, and personnel. There is a growing need for innovative medical technology solutions. Implementation of the latest technology will have a significant impact on future medical care, diagnosis, and the alleviation of diseases. Technical innovation can also provide solutions such as telemetry, distant-virtual consulting and checking, the automation of processes, and robot technology. Intelligent implants that use new design methods, materials, and software can keep patients mobile and fit as long as possible. Early recognition using accurate diagnostic equipment that employs imaging techniques, lab-on-chip analysis, and advanced sensors has the potential to reduce treatment costs and improve recovery rates. This can make it possible for medical care to be provided at home, instead of in a hospital, thus reducing costs.</p> <p>The aim of the course is to provide an introduction to the multidisciplinary field of Biomedical Engineering by examining the basics of the development of medical devices in general. Focusing on applications for medical technologies, biosensors and their electronic systems, biosignal and image processing and the simulation of biomechanics, the contents are developed in lectures, lab work and field trips. The multicultural focus of the course is intensified by the presence of an international lecturing staff drawn from several centres of excellence in the field of biomedical engineering. Another key learning outcome of this course is provided by the interaction of international students in group-based projects and organised social events.</p> <p>The course language is English. The presence of teachers as well as students from foreign countries requires the use of a shared language as the basis of everyday communication and interaction. Using English as the language of instruction provides a motivation for the students to speak and improve their English language skills.</p> |

Course details

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| Recognised language exams offered (e.g. DSH, TestDaF, TOEFL) | No |
| ECTS points (max.) | 6 |
| Average number of hours per week | 28 |
| Average number of participants per group/course | 15 |

Costs / Funding

| | |
|-----------------------|---|
| Dates and costs | <ul style="list-style-type: none"> August 28 - September 15, 2023 (Registration deadline of course provider: May 15, 2023) |
| Price only on request | Yes |

Requirements / Registration

| | |
|--------------------------|--|
| Teaching language | <ul style="list-style-type: none"> English |
| Language level of course | <ul style="list-style-type: none"> English: B2 |
| Language requirements | Good English language knowledge is obligatory. No German language skills are required. |
| Submit application to | iris.wilters@jade-hs.de |

Services

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|-----------------------------|--|
| Is accommodation organised? | Accommodation is arranged by the organiser. |
| Type of accommodation | Accommodation is possible in a youth hostel (two to four people in one room) with bathrooms in the corridor. The cost for this accommodation is approximately 500 EUR. This cost includes breakfast. |
| Meals | Breakfast is included. Lunch can be bought in the university's cafeteria. |

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| Is a social and leisure programme offered? | Yes |
| Description of social and leisure programme | Evening activities Sports events Workshop on German language and culture Excursions (one to three days) |
| Free internet access | Yes |
| Support in visa matters | Yes |
| Pick-up service from train station/airport | Yes |

Contact

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International Office

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🌐 Course website: <https://www.jade-hs.de/en/the-university/departments/engineering/international/engineering-summer-schools/biomedical-engineering/>

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International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor

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Disclaimer

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