BEYOND BOUNDARIES

RESEARCH
Learning in the future, the power of yeasts, and aspects of quantum mechanics: just some of the things that scientists at Jacobs University are studying.

Page 4

RUNWAY
Put ideas into practice or found a company: Jacobs University supports the establishment of start-ups as part of its degree courses.

Page 8

RANKINGS
Whether you consult the U-Multirank, CHE or the World University Rankings by the Times Higher Education (THE) magazine, you’ll find that Jacobs University is consistently in a top position.

Page 14
LEARNING, TEACHING, AND RESEARCH ACROSS BORDERS

LIFE AND PASSION

These days, it is more important than ever to see diversity as an asset, rather than a threat. Every day, Jacobs University shows that it is possible to build a community without borders and to fill it with life, passion, and a sense of purpose. After they leave, Jacobs graduates will continue to uphold the values that they have lived on this campus.

LAVINIA JACOBS
PRESIDENT OF THE JACOBS FOUNDATION, ZURICH

OVERCOMING CULINARY BOUNDARIES

I’m Indian, and I’ve worked in many countries, so I’m familiar with Middle Eastern, Mediterranean and, of course, Asian cuisine from lots of different regions. Local dishes are key to understanding a culture. That’s why I always offer both: local and international food.

ANIL KUMAR
APETITO HEAD CHEF, CATERING AT JACOBS UNIVERSITY

FROM SCIENCE TO SCIENCE FICTION

Science and literature might appear to be at odds with one another, but I’m passionate about both: my field of study – biochemistry – and literature. Whenever I find the time, I write: some science-based fiction, but poetry most of all. Jacobs University inspires me, because it’s all about diversity here.

AYSHAN ALIYEVA
BIOCHEMISTRY AND CELL BIOLOGY STUDENT

REMARKABLE DIVERSITY

What drives me? What gets me excited? What am I really made of? Asking yourself these questions time and time again allows you to get the most out of life. The Jacobs University campus has a truly impressive level of diversity. Such an environment is rare, and I’m certain that it will continue to enrich the lives of all of its students in future.

DR. INSA THIELE-EICH
2019 GRADUATION CEREMONY GUEST SPEAKER · ASTRONAUT CANDIDATE

CULTURAL DIVERSITY

I am always amazed and delighted at how peacefully 240 young people from over 60 different countries live together in College III. It is striking how much effort many students put into presenting their homeland and culture to others, and the lengths they go to in order to ensure that everyone feels at ease. My children, who live with us on campus, also benefit from this diversity. Growing up in this kind of environment is very special indeed.

ROBERT RENNIE
RESIDENT MENTOR, COLLEGE III

THE RIGHT STEP

Before I enrolled at Jacobs University, I attended the SOS-Hermann Gmeiner International College in Ghana. For me, overcoming boundaries has meant leaving my comfort zone and going out into the world, immersing myself in a different country and a foreign culture. It was a difficult step, but I haven’t regretted it.

MARGARET NANDUDU
MEDICINAL CHEMISTRY AND CHEMICAL BIOLOGY STUDENT

WHAT MAKES SCIENCE FUN

We need curiosity and passion – these two things are more vital than anything else, especially in basic research. It’s not about being rich or respected, but rather about satisfying one’s inner need to understand and savor knowledge. That’s what really makes science fun.

PROFESSOR ADA YONATH
HONORARY DOCTOR OF JACOBS UNIVERSITY · NOBEL PRIZE WINNER FOR CHEMISTRY

FREEDOM AND INSPIRATION

We are all called upon to push against the current erosion of freedom. Freedom is a vital prerequisite for the greatest gift that we can bestow in an enlightened society: generosity. Generosity is a mindset that seeks to go beyond the conventional, beyond what is expected, and what is within easy reach. Instead, an attitude founded upon generosity strives for the unusual, the improbable, and excellence. Once we have experienced generosity – through scientific freedom, for instance, which values knowledge for knowledge’s sake, while also advancing education as a prerequisite for committed freedom – we become more open, and we are ready to engage. Engaged freedom makes our lives warmer, friendlier, more respectful, more tolerant, and, in short, more human. At Jacobs University we all have the immense privilege of experiencing this anew every day – in a very special place of freedom and a deep source of inspiration for generosity put into practice.

PROFESSOR MICHAEL HÜLSMANN
PRESIDENT OF JACOBS UNIVERSITY
It’s rare to see so much change. The key phenomena behind the technological leaps being seen today are digitization, automation, and artificial intelligence. These go hand in hand with new, agile, and mobile forms of work. In companies, this often leads to conflicts with older employees, who may find it difficult to make changes and have a fear of the transition. As such, he is working together with the German Research Center for Artificial Intelligence and the companies Airbus, Festo, and Lufthansa, under the leadership of the Demographie-Netzwerk ddn e.V., to develop software that enables learning opportunities to be ideally tailored to the learner and his or her individual strengths.

Learning fitness can be boosted by an appropriate learning design. Instead of the standard learning goals, which are often somewhat vague, Rönnagel’s approach defines quantifiable results, which also determine the teaching and learning activities. At the end, accurate feedback is provided in the form of an assessment, from which the instructors and learners alike can determine whether the previously defined outcomes have been achieved. Stamov Rönnagel’s projects show that this can significantly increase learning efficiency.

Rönnagel conducts operational training sessions himself and provides further instruction to company trainers. He is also carrying out research into how artificial intelligence can be used to make learning easier, especially when it comes to making such tasks straightforward for older employees. As such, he is working together with the German Research Center for Artificial Intelligence and the companies Airbus, Festo, and Lufthansa, under the leadership of the Demographie-Netzwerk ddn e.V., to develop software that enables learning opportunities to be ideally tailored to the learner and his or her individual strengths.

**Promoting Self-Reliance**

Just as he is looking to strengthen the self-management of company employees, Rönnagel also wants to stimulate his students’ curiosity and their eagerness to conduct research. They should be able to solve problems themselves, make decisions, and develop new approaches – all skills that will be needed later in their careers, regardless of the industry or sector.

“It works best if you get students involved in research from the very first semester,” says Rönnagel. And support for self-reliance goes even further than that: not only can students get involved in the projects being conducted by their academic supervisors, but they can also develop their own research in consultation with them. “That,” says Rönnagel, “is what really makes Jacobs University special.”

**The Organizational Psychologist**
Ever since her doctorate, Elke Nevoigt has been studying yeasts. They are robust, easy to handle, and versatile: “simply a wonderful organism for laboratory research,” the scientist enthuses. Her working group at Jacobs University is playing an international leading role in yeast research. The 52-year-old scientist is also keen on these microorganisms because they provide a bridge between the traditional use of baker’s yeast for producing foodstuffs, such as bread, wine, and beer, and modern “white” biotechnology for the sustainable industrial production of chemicals and fuels from renewable raw materials.

Environmental protection and the conservation of resources are primary motivations for her work. Nevoigt is researching how renewable raw and waste materials can be better utilized. Instead of chemical catalysts, she uses enzymes and microorganisms as biocatalysts. Ensuring that her research has practical applications is very important to her. “I want to see what my work can achieve,” she says. That said, she also conducts basic research.

Improving the Metabolism of Yeasts

Agricultural waste often contains significant amounts of substances whose nature precludes them from being used by baker’s yeast. Some of the compounds in such substrates are often toxic or growth-retarding, and thus hinder fermentation. As such, the challenge is to develop new and improved yeast strains using biotechnology. Elke Nevoigt has filed several patents in this area. To take one example, one of the processes that she has developed makes the production of bioethanol more efficient, resulting in fewer by-products, but more biofuel.

She is currently the coordinator of the European YEASTPEC research project, which includes partners from Finland, Belgium, and Portugal, who are working to optimize the use of sugar beet pulp. In this case, she hopes to convert the residual materials that result from sugar production into biofuel and chemicals. Her group is focusing on co-processing the building blocks of pectin. Pectin is an important structural substance in the cell walls of plants. “We’re on the right track,” she says.

Nevoigt is using the latest techniques from molecular biotechnology and synthetic biology, including CRISPR-Cas9 gene scissors, to investigate and optimize yeast metabolism. The scientist is also training the younger generation to conduct research. She gets good students involved in her work at an early stage and provides them with plenty of support: “Those who are really committed can achieve a great deal at Jacobs University.” Of course, she also teaches. “Going back over the basics is helpful in one’s own research.” Having worked at Jacobs University for around ten years, Nevoigt has come to greatly appreciate the international aspect of the student body. “Being in contact with other cultures and ways of seeing things is very inspiring. It’s not only the students who benefit from this kind of exchange – I do too, as a professor.”

Research and Teaching Go Hand in Hand

Teaching is important, but Petrat sees research as no less vital. He is particularly interested in mathematical physics, especially quantum mechanics, a fundamental physics theory that deals with the microscopic world of elementary particles – atoms and molecules. He is looking at the issue of how these microparticles interact with the larger world around them. “The general aim of my research is to understand how effectively the macroscopic dynamics emerge from the microscopic laws of quantum theory,” he says. This is hugely pertinent to modern experiments.

Although Petrat’s research is based on experiments, it is purely theoretical. “I see exchange and discussion as fundamentally important,” he says. This takes place at conferences in Germany and abroad, or via Skype with various colleagues. However, he also discusses mathematical concepts with students.

“The students here are of an extremely high caliber,” he declares. This is due to the great reputation of the Mathematics department, which in turn owes its success to the commitment of its many teaching staff. Mathematicians graduated from Jacobs University have themselves gone on to teach at many of the world’s leading universities. Others have gone into business, again supported by the degree program, which covers applied mathematics topics. “The mathematics degree course at Jacobs University gives you lots of opportunities for securing very good jobs,” says Petrat, “and not only in academia.”

Three of Professor Sören Petrat’s students have already been granted places in prestigious summer schools at renowned US universities: Carnegie Mellon University, Cornell University, and a Utah branch of the Institute for Advanced Study in Princeton. Professor Petrat himself did postgraduate work at the Princeton University. When he came from there to Jacobs University in fall 2017 to take up a post of Assistant Professor of Mathematics, one of his immediate objectives was to be a good teacher.

“It all worked out pretty well,” laughs the 34-year-old. What makes a good teacher, in his eyes? Thorough preparation for courses, for one. First and foremost, however, it means being open and responsive to the concerns of students. Then there’s being willing to learn from them in turn, through the questions that they ask. And opening up opportunities for his students, like the chance to take part in the summer schools. “Jacobs University has made it easy for me,” he says. “The classes are small and lecturers are in close contact with students, which I believe is something quite special.”
Bannour Hadroug didn’t think twice. The now Member of the Management Board left Tunisia ten years ago and came to Germany because he sought to live in an open and international environment that is not focused on one’s background, religion, or ethnicity, but on achieving something together. “I am driven by this idea,” he says – and so is Jacobs University. “Helping an organization with these values and this potential to develop is a great opportunity. I identify with my task and I am very passionate about it.”

Essentially, Bannour Hadroug’s function is to convince top talents to study at the English-speaking campus university. It’s not a fast-selling item. Jacobs University has an international orientation: 80 percent of its approximately 1,400 students, with origins in over 111 countries, come from outside Germany. It competes for intelligent, motivated, and socially committed young minds with renowned universities from all over the world. But how do you get them to move to Bremen-Nord in Germany?

“Communication is the one and only tool,” says Hadroug. He lives in the Bremen neighborhood of Lesum, together with his wife, a high-school teacher, and their two children. “It’s about building trust and being fair. We are the facilitators. We create optimal conditions for young talent so that these individuals can be successful.”

Hadroug had previously been responsible for marketing and sales activities in e-commerce and industrial companies. After starting his job at Jacobs University, he quickly became aware that the parameters in the academic world are generally more complex and differently applicable than in business. The decision-making process of future students for a study program often takes months, sometimes even years. It is both an emotional and rational decision. The majority of potential students are located in their home countries and cultural communities, several thousand kilometers away. They often have several equally good options to choose from.

Jacobs University’s recruiting team travels to around 30 countries, visiting career fairs and schools, advising young people, parents, and career advisors on the circumstances of what we have to offer, why we could be the right choice for them, explains the 40-year-old academic. His role is to encourage them, provide them with practical support, and, where there is doubt, perhaps dissuade them from going ahead with a particular start-up. “Students often get completely bound up in their idea. I see it as my job to protect them from themselves and their ambitions, to some degree.” The interdisciplinary approach offered by Jacobs University is beneficial for students, as they have lots of contacts outside their specific subject area. “A programmer will know an engineer, who in turn will know an economist. The teams members complement one another very well,” says Halaszovich.

This start-up potential is showcased every year at the Jacobs Startup Competition, a competition for students worldwide organized by students of the Jacobs University. “Dare to stand out” was the slogan for the 2019 event, in which the organizers encouraged entrants to pursue their ideas and dreams, even in the face of resistance. Nearly 160 start-ups from all over the world took part. Ten teams qualified for the final, which took place on campus on a weekend in March. The winner’s check for over 3,000 euros went to a team from the USA for a project for people with autism. The students from Northwestern University and the Rochester Institute of Technology developed wearable technology that uses biomorphic data for the early detection of stress symptoms and transmits information to an app. If a person with autism is in danger of suffering a breakdown, the app informs their relatives. www.sharemas.de

Academic Excellence and a Clear Position

With Jacobs University’s message that “Inspiration is a place,” Hadroug and his team aim to draw students’ attention to the private university from the ninth and tenth grade onward – primarily through personal advice, online communication, and the use of social media. Later, more concrete discussions about an application will be held with student advisors and potential students. “We try to provide neutral advice,” says Hadroug. In addition to academic excellence and a global perspective, the values of Jacobs University also remain important. “Palestinians and Israelis, Indians and Pakistanis, New Yorkers and Texans live and study together on our campus. We are a tolerant community. To us, it is not important where a student comes from, but where they want to go.”

The application phase is followed by the admissions phase. “We want to attract talented individuals, regardless of their financial means,” says Hadroug. In addition to performance-related support, students also receive needs-based aid. The diversity the university strives to maintain is fostered not only in the broad distribution of nationalities, but also in a balanced distribution of genders and academic orientations and the different financial resources available to the students. Once the admissions decisions have been made, things such as accommodation, visas, or insurance have to be clarified for the potential students – who may still choose another university at this stage. “This intensive phase often takes months. Of course, we try to provide guidance to these young people as actively as possible and support them in their decision-making.”

Almost one in ten students at Jacobs University comes from China, India, Nigeria, and South America will also be important target markets in the future, Hadroug says. He adds that no matter where the students come from, they must of course meet the admission requirements. Most of them are graduates of international schools.

“It’s a very nice moment when you see the students on their arrival during orientation week.” But there is another, even nicer moment: watching them graduate three years later after finishing their studies. Since Bannour Hadroug has only been with us for one year so far, the best is yet to come for him.
On the search for innovative, groundbreaking ideas for future higher education, the Jacobs Foundation and Jacobs University invited scientists from all disciplines to participate in an international competition. The Jacobs Foundation provided 650,000 euros of funding to promote pioneering research projects. Thirty proposals were received and evaluated by an international panel. These included the “AMIGO” project (Algorithmic Method for Intelligent Group Formation) by Dr. Henrik Böttcher, the Johannes Gutenberg University Mainz. Another project that received funding was “Developing department is addressing this area.

The competition came about as the result of the international conference “B2 – Bildung Beyond Boundaries” (education beyond boundaries) held at Jacobs University in November 2018. “Our discussions with the participants encouraged us to look for groundbreaking ideas involving a wide range of perspectives as part of an ideas competition,” says Sandro Giuliani, Managing Director of the Jacobs Foundation. It seeks to promote collaboration between international, interdisciplinary teams, with an emphasis on evidence-based educational research.

“We want to test out international ideas for improving universities through experimentation,” adds Simon Sommer, Co-Managing Director of the Jacobs Foundation. “This Jacobs University campus, together with its students and professors, serves as an experimental space. This is what really sets it apart: it’s not just about coming up with ideas, but also about actually implementing them and evaluating them through experiments.”

www.jacobsfoundation.org · www.jacobs-university.de/b3

650,000 EUROS FOR GROUNDBREAKING IDEAS IN HIGHER EDUCATION

The pressure of competition is immense, and changes to market conditions are taking place at breakneck speed: companies now expect more promptness, flexibility, quality, and cost control than ever. “Digitally transforming a company is an important step toward meeting these manifold requirements,” says Hagen Böttcher, Head of Business Solutions and Member of the Management Board at Jacobs University.

When attempting digital change, companies need to plan targeted and sustainable changes within their organization and business models. “With our expertise, we can help companies to understand the impact of digital transformation on their working process, employees, and customer relationships, and learn how they can implement that change in a strategic way.”

This is done through certified training programs for professionals and management, either at company premises or on the Jacobs University campus, as well as through custom solutions tailored to the specific needs of the business. The programs thus combine scientific expertise with application-oriented solutions. The topics cover not only digitization, but also intercultural management, big data, and industry 4.0.

Alongside its customer-specific training programs, Jacobs University also builds bridges with business through research and development collaborations. Scientists at Jacobs University are among the best in their field, working across disciplines in highly innovative research centers and offering companies access to cutting-edge international research.

JACOBS UNIVERSITY JACOBS UNIVERSITY

BeYOND BOUNDARIES BEYOND BOUNDARIES

Shaping Digital Change

Companies can benefit from the knowledge of researchers at Jacobs University. The Business Solutions Department is addressing this area.

FINANCE YOUR EDUCATION THROUGH BRAIN CAPITAL’S GENERATION CONTRACT

JUStudyAtEase was developed in conjunction with Brain Capital and will be offered to all students for the 2019/2020 academic year. Instead of fixed rates, students pay back a certain percentage of their income, spread over a maximum of ten years and linked to their income level. Repayment begins only when earnings are 25,000 euros gross per year minimum. If income falls below this level, the repayments, which are limited to a maximum amount, are paused. The model is thus directly adapted to the recipient’s respective situation in life, allowing students to plan their careers regardless of their parents’ income.

JUStudyAtEase is part of a financing package that is offered to every applicant admitted to Jacobs University. It is calculated individually and consists of three components. First, there is the potential for a scholarship, which is awarded based on the applicant’s performance and social commitment. At most, it may cover up to 75 percent of tuition fees and does not need to be paid back after graduation. Second, there is JUStudyAtEase, which is available to all successful applicants, with the amount calculated on an individual basis. Third, there is a needs-based component based on family income.

Brain Capital is considered one of the leading providers of alternative student financing in Germany. The company was founded in 2005 at the WHU – Otto Beisheim School of Management, based on a student initiative. Jacobs University will continue to award scholarships based on performance and need, irrespective of JUStudyAtEase.

www.jacobs-university.de/financing-options

NEW STUDENT FUNDING OPTIONS

“no one should have to drop out of their degree course as a result of the tuition fees,” says Andrea Herzig-Elter, Head of Finance & Controlling and Member of the Management Board. In order to ensure that this cannot happen, Jacobs University and its partner Brain Capital are offering a new financing model for Bachelor’s and Master’s degree programs. JUStudyAtEase, as the model is called, is tied to future income, thus offering students greater freedom and flexibility.

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HOME SWEET HOME ON CAMPUS

A place to retreat to and study, a gathering place for friends, and perhaps the occasional party: for many students, having their own four walls when they start university is a dream come true. As Jacobs University grows, it is creating new accommodation for its students.

There were formal speeches, and the residents belted out the Krupp College hymn. Jacobs University has created new student accommodation by converting a former administration building. “Krupp E” houses 73 modern apartments for students.

The four colleges on campus are currently home to 960 students, each supervised by a resident mentor.

The conversion is the product of Jacobs University’s success. Its abiding need for more accommodation. “As an international campus university, we want to give our students the opportunity to conduct research, study, and live together,” says Jens V. Dünnbier, Member of the Management Board. “When creating new housing capacity, building directly on campus is therefore our top priority.”

Currently, 960 students live on the spacious, 34-hectare site, a former bar-nacles. They live in four colleges: Alfred Krupp College, Mercator College, College III, and College Nordmetal. Each college has its own cafeteria and is overseen by a resident mentor.

The converted administration building dates from 1938 and is located right beside the university library. The apartments consist mainly of two fully furnished single rooms with a shared bathroom. There is a kitchen for the students to use on each floor of the three-story brick building. The design for the conversion of the building into a college was created by an architect from local Bremen-Wagetack, while the contracted tradespeople also came from the Bremen region.

As it turned out, it wasn’t that different at all. Both are about meeting customers’ wishes. This is well and truly reflected in the four colleges on the Jacobs University campus. Students from all over the world live there, representing more than 100 countries. They form a protected area. “They often shape the course of a student’s life,” says Dünnbier. And like the entire campus, they form a protected area.

As he sees it, students are guests, and should be treated as such. Custom – friendliness is just as important to him as the desire to provide a service. He expects his employees to be responsible, helpful, and cooperative, as he models these values himself. Jens V. Dünnbier has been responsible for student accommodation, campus catering, conferences and events, building management, and campus security since September 2018, as a Member of the Management Board at Jacobs University.

As a 48-year old father of two, he is a passionate hotelier. He worked in the hotel industry for 30 years, starting with classic on-the-job training in several establishments, including the Hotel Adlon Kempinski in Berlin. Most recently, he was Director of the Romantik Hotel auf der Wartburg in Eisenach for six years. “I would never have thought of making the change to a university myself,” he explains. But when an acquaintance got in touch and told him about Jacobs University, he was immediately enthusiastic. At the same time, he had a great deal of respect for the unfamiliar world of academia, and was impressed by the fact that the university had opened up to someone from a completely different sector.

As it turned out, it wasn’t that different at all. Both are about meeting guests’ needs, showing hospitality, and gearing your service toward customers’ wishes. This is well and truly reflected in the four colleges on the Jacobs University campus. Students from all over the world live there, under one roof. “They often shape the course of a student’s life,” says Dünnbier. And like the entire campus, they form a protected area.

Jacobs University is growing, but campus accommodation is limited. The inauguration of Krupp E College marks an initial success. Others are set to follow; planning for the conversion of a guesthouse is already underway. And the course has already been set for a major solution: two new colleges housing 580 students are to be built on a neighboring plot of land by late 2021; the tender procedure is now underway.
ALUMNI ASSOCIATION: A CONNECTION FOR LIFE

A degree course might have an end date, but the connection with one’s fellow students and the university endures. This is ensured by the Alumni Association, which currently has around 745 members. It promotes alumni exchange through regular events like the annual Homecoming celebration, and gatherings in many cities worldwide. The graduates form a mutually supportive, international network, connected via an intranet that features forums, profiles, and job advertisements. In addition, it is one of three partners involved in the Jacobs Alumni Network, which currently has around 745 members. It promotes alumni exchange through regular events like the annual Homecoming celebration, and gatherings in many cities worldwide. The graduates form a mutually supportive, international network, connected via an intranet that features forums, profiles, and job advertisements.

A HISTORIC DONATION

Jacobs alumni and social media star Hashem Al-Ghaili has donated 50,000 euros to the university because he wanted to give something back and support those who believed in him. The money was given to the working group of his mentor, the biochemist Professor Sebastian Springer, who used it to purchase a device for cancer research. Al-Ghaili studied Molecular Biotechnology at Jacobs University and is now a science communicator. His Facebook page alone has 32 million subscribers.

TOP POSITIONS IN RANKINGS

According to the international university ranking U-Multirank, Jacobs University is one of the 25 best universities in the world for the international orientation of its study programs. It received the best ratings of the 307 German universities considered. In the World University Rankings by the Times Higher Education (THE) magazine, Jacobs University was named as one of the best 300 universities worldwide. It scored particularly highly for teaching, research, its international orientation, and third-party funding. The outstanding quality of the teaching and research was also highlighted by the CHE ranking, the most detailed rating system for universities in German-speaking countries. In this ranking, Jacobs University scored top marks for its international dimension and the support it gives to freshmen.

LEARNING BY DOING:

Jacobs Students on a Teaching Cruise with the Heincke Research Vessel

The North Sea is as cloudy and opaque as ever. But what is hidden at the bottom of the sea is slowly becoming apparent on the computer screen on board the research vessel Heincke. thank to sonar. Yellow on blue and in 3-D, the contours of a shipwreck from the First World War become visible. It is a fascinating encounter with history.

Sonars are the eyes of scientists in the ocean. Working with the complex technology, analysis equipment, and underwater robots is just as much a goal of the “teaching cruise” as taking and examining water or sediment samples. “The cruise is really great because the students are already gaining practical experience with maritime research in their second year,” says Vikram Unnithan, Professor of Geosciences at Jacobs University Bremen. Jelle Bijma, Head of the Marine Biogeosciences Section at the Alfred Wegener Institute (AWI) and Adjunct Professor at Jacobs University, says: “What you see and learn here stays with you.” The two leaders have already been organizing the educational trip together for more than ten years. Professor Vikram Unnithan shows students a piece of the reddish rock which also makes up the famous Helgoland rock “Lange Anna.”

Once a year, the Heincke sets sail with bachelor students from Jacobs University’s Earth and Environmental Sciences program. The 95-meter-long ship, equipped with state-of-the-art technology, belongs to the Alfred Wegener Institute. The voyage is conducted jointly, with doctoral students from the POLMAR graduate school of the AWI and Master’s students from other universities on board. This mix gives the cruise extra appeal participants make contacts and exchange experiences. During the cruise, the students apply the same theories they previously learned in the seminar directly in the field. They can use the data they collect for their Bachelor’s thesis. The whole spectrum of the subject from marine geophysics to marine biology and oceanography is taught. Interdisciplinarity is important, and scientists from various disciplines are on the cruise. “In order to understand the topics and solve problems, you have to think and work in an interdisciplinary way,” says Unnithan. Aspects of physics, chemistry, biology, or even the social sciences play a role.

THE GROUP EN ROUTE TO HELGOLAND

The weather can get stormy during the teaching cruise, which lasts several days. Unnithan has been on board for a dozen years and has never been seasick. “Working at sea is not as easy as in the office. The ship moves, it rocks, and you have to concentrate. The changing conditions are also a good learning experience.” Another thing that the students won’t forget so quickly is their assignment as cruise leader on the last day of the trip. They determine which experiments will be carried out and have to consult with the captain and the other scientists.

The program of the cruise is constantly being further developed. Unnithan wants to involve students from the field of data engineering in the coming year, because more and more data is generated during the experiments. Technology is also progressing. Underwater drones and marine robotics are playing an increasingly important role. “Excursions are very, very important in the geosciences,” says Unnithan. “It’s great that we can offer this opportunity to our students.”

Highlights of the excursion: www.youtube.com/watch?v=F2ZCo7enhZo
Conferences and lectures, dance and theater, soccer and badminton: there’s always something going on on campus. We keep you informed on all of our social media channels – YouTube, Facebook, Instagram, LinkedIn, Twitter, and Weibo. See you there!