

## MODULE DESCRIPTION

### A Business Case: Developing a Sustainable Finance-Strategy for Petrol-Stations in Europe

Prof. Dr. Andree Elsner, TH Lübeck

In this module, you will be working on an American business case where you have to review a company's business strategy, prepare cash flow statements to evaluate a company's liquidity and conduct an analysis of the latest products. The goal is to enable the company to run a sustainable business by preparing the first interim financial statements and conceptualizing the finance and business policy.

Max. number of participants: 25

### Warehouses in the Supply Chain

Prof. Dr. Rainer Lehmann, TH Lübeck

Warehouses and distribution centers are a crucial component of the supply chain. They are responsible for processing every B2C customer order, making them integral in adding value to the supply chain for customers. Therefore, they have to be designed to meet the requirements of a supply chain. In this course, we will discuss the relevant factors related to the design of efficient and sustainable warehouses in a supply chain. Furthermore, we will tour a company's distribution center to gain a better understanding of its warehouse operations.

Max. number of participants: 20

### Integrated Planning a Tool for Sustainable Supply Chain Management

Prof. Dr. Rüdiger Lohmann, TH Lübeck

Today many companies have suppliers and/or customers around the world. They are a part of international supply chains. In order to fulfill the "6 R's of Logistics" (right place, right time, ...), they have to allocate and utilize their resources efficiently. This is a major goal of supply chain planning. If the focus of supply chain planning is not on local optimization but on a holistic and integrated approach, it can contribute to sustainable development of companies.

Max. number of participants: 25

### Sustainability controlling and ESG-reporting: Frameworks and impact on management control systems

Prof. Dr. Nils Balke, TH Lübeck

Sustainability is a key element of corporate strategies. In addition, corporations face legal requirements concerning ESG (Environmental, Social, Governance)-Reporting defined e.g. by the Corporate Sustainability Reporting Directive (CSRD) and the European Sustainability Reporting Standards (ESRS). This course shows, how management control systems can be adjusted to reflect

corporate sustainability goals, measures and key figures. Specific performance measurement systems like e.g. the sustainability balanced scorecard are discussed. Moreover, the current frameworks concerning ESG-Reporting are analyzed. The course work also includes case studies based on sustainability reports of multinational corporations.

Max. number of participants: 25

#### Media Camp

Prof. Dr. Karen Cabos and Johanna Helbing, TH Lübeck

In this module you will be guided to report on the summer school activities as a social media blogger.

Max. number of participants: 12

#### Sustainability and AI

Prof. Dr. Tobias Knuth, TH Lübeck

Artificial Intelligence presents both an opportunity and a potential threat to a sustainable future. The latest breakthroughs in AI offer remarkable tools for problem solving. Yet, the technological infrastructure that supports these advancements presents its own challenges. This presentation highlights the duality of AI and provides an outlook on its contribution to sustainability.

Max. number of participants: 20

#### Humanitarian Logistics

Saja Al-Khasawneh, German-Jordanian University

Although logistics has been mostly utilized in commercial supply chains, it is also an important tool in disaster relief operations. Humanitarian logistics is a branch of logistics which specializes in organizing the delivery and warehousing of supplies during natural disasters or complex emergencies to the affected area and people. However, this definition focuses only on the physical flow of goods to final destinations, and in reality, humanitarian logistics is far more complicated and includes forecasting and optimizing resources, managing inventory, and exchanging information.

Max. number of participants: 25

### Prototyping a sustainable future

Prof. Dr. Monique Janneck, TH Lübeck

How can digital tools and applications help to shape a sustainable future? In this workshop we will get to know some fundamentals of Human-Centered Design and develop analog and digital prototypes of applications that could help reach the UN sustainability goals.

Programming skills are not necessary for this workshop.

Max. number of participants: 16

### Logic and Deduction

Prof. Dr. Andreas Schäfer, TH Lübeck

For centuries, logic has been a fundamental aspect of classical education. This course covers the basics of propositional and first-order logic, as well as the concept of proof, in a condensed format.

Max. number of participants: 16

### Temporal Logic

Prof. Dr. Andreas Schäfer, TH Lübeck

After mastering the fundamentals of logic, you will incorporate the element of time into your reasoning.

Max. number of participants: 16

### Systems and Environmental Simulation

Prof. Dr. Maximilian Schüler and Prof. Dr. Karen Cabos, TH Lübeck

Students get an introduction and hands-on experience with modelling of natural systems. Interacting with the models on limited growth and predator/prey-relationships they build intuition on their non-linear behavior and reflect their application on challenges in the real world.

Max. number of participants: 13

### Intercultural Competence Workshop

Nicola Graessner, TH Lübeck

The workshop aims to help you improve your communication skills and intercultural competence, which are valuable for everyday campus life. During this workshop, you will have the opportunity to develop your intercultural competence, a skill set that is not only useful on campus but also for professional settings on the open job market. The workshop dives into the comparison of different cultures. Not only will you gain theoretical knowledge during the workshop, but you'll also have the

opportunity to experience intercultural communication firsthand, thanks to the diverse range of our participants from various countries across the globe!

Coach: Mrs. Nicola Graessner

The workshop is led by Nicola Graessner. Nicola Graessner is a German national with requisite training and several years of experience as an intercultural trainer, both in Germany and abroad. She has traveled extensively and has spent many years studying, living and working in various countries around the world.

## INFORMATION ABOUT THE SOCIAL ACTIVITIES

### Welcoming and breakfast together

In the morning, we welcome our summer school students and gather for a cup of coffee or tea and some breakfast.

### Campus Rally

In small groups, the participants explore the campus, face tricky, fun and educational tasks and, by doing so, get to know the campus better. The winning team will receive an award. Good luck!

### Sightseeing tour Lübeck

Come and experience Lübeck's charme, join us on our walk to the city's sights on the island of the old town which measures about two square-kilometers. We will visit the world-famous medieval buildings from Lübeck's great times as queen of the Hanseatic League – the Holsten Gate, the church of St. Mary's or the Buddenbrookhouse. On our 1,5 hours trip we will come to marvel about today's life behind those picturesque stepped gables, some are more than 700 years old. Enjoy the atmosphere of a unique UNESCO world heritage site with secret alleyways and with churches built in the era of the brick gothic style.

### Grenzdokumentationsstätte

Learn more about German history, specifically the fall of the Berlin Wall and the opening of the border between East and West Germany on November 9<sup>th</sup>, 1989. The wall was constructed by East Germany and stood for several decades, creating an almost impenetrable division. The separation of East and West caused immense suffering for the German people. The dramatic events of that period and their historical significance must never be forgotten. The Grenzdokumentationsstätte museum has made it their mission to preserve the memories of that historical time.

### Company Visit

#### Dräger

Dräger manufactures medical and safety technology products and protect, support, and save people's lives around the world in hospitals, fire departments, emergency services, authorities, and in mining as well as industry. Founded in Lübeck in 1889, Dräger has grown into a worldwide, listed enterprise in its fifth generation as a family-run business. Dräger has more than 16,000 employees worldwide and is present in over 190 countries around the globe. Dräger technology is used all over the world. The

company operate in around 50 countries with own sales and service companies directly on location where the customers are.

**Here** is a sneak peak of the Dräger exhibition.

### Mankenberg

As a leading manufacturer of self-acting control valves, Mankenberg combines the tradition of an owner-managed industrial company with innovative spirit and entrepreneurial vision and decidedly boosts its own agile digital transformation. Mankenberg is a specialist for stainless steel and special materials in deep-drawing processes. The portfolio offers flexible standard valves and project-related special valves, from large series to small quantities and individual production, and is being consistently further developed. In Lübeck we set the course for the future.

### Brüggen

Brüggen is a family business that was founded in 1868. As a leading private label manufacturer, Brüggen specialize in the production of high-quality breakfast cereals. The dynamic team of around 2,000 dedicated professionals work together across five strategic locations in four countries to deliver nutritious and delicious products to valued customers worldwide.

### Escape Room

You wake up on a spaceship... You've lost your memory... and have no idea what you're in for!  
Several central ship functions are down...  
The interior is pretty ragged and needs a clean-up...  
The chief engineer who held it all together is on vacation...  
The captain, who could give instructions, is at a conference...  
The central computer is spreading panic and making cynical comments instead of helping...

Under time pressure, your task is to save the spaceship from a massive disaster with your team,

The Escape Room was constructed during a mandatory internship of all freshmen students in the electrical engineering department.

### Excursion to Hamburg

Not far from Lübeck is another beautiful northern city – Hamburg. We will explore the city, visit the Elbphilharmonie, go on a boat trip, enjoy a 'Fischbrötchen' or 'Franzbrötchen' and visit a brewery. Afterwards, you can choose how you would like to spend the rest of the day.

### Travemünde Week and Sailing Trip

World-class regatta sailing meets a maritime festival with a big heart. When the who's who of international sailing meets in Travemünde every year, the audience gets to experience the thrilling races on the waves of the Baltic Sea close up from the lively boardwalk. The "WE" is written in capital letters here: The people of Travemünde, local clubs, and associations enrich the Travemünde Week with their creativity. The seaside resort becomes a cosmopolitan and international meeting place where top athletes from all over the world gather together and compete.

As part of the Travemünde Week we will go on a sailing trip with an old hanseatic ship called 'Lisa von Lübeck'.

### European Hansemuseum

The Hanse was the most important and powerful trading network during medieval times. With its strategic position in the Baltic Sea region, the city of Lübeck developed into one of the most important trading partners of the alliance. As a pioneer of our modern understanding of the economy, the Hanse still shapes the politics, economy, and society of Europe today.

As a cultural and educational center, the European Hansemuseum is one of the best addresses for Hanse history worldwide. In cooperation with the affiliated 'Research Centre for the History of the Hanse and the Baltic Sea Region', the latest findings are made accessible.

### Dinner together

On the final day of our summer school, we will get together for a barbecue on campus.