

## **ONLINE COURSES**

ENGLISH

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### **FPGA-Online Basic Course with VHDL**

A Basic FPGA Course about Fundamentals in Programmable Logic, Basic Circuit Design, and Communication to External Components with Online Laboratory

Prof. Dr.-Ing. Dietmar Fey  
Friedrich-Alexander-Universität Erlangen-Nürnberg

#### Abstract

The module “Basics of FPGAs” is suitable for a one semester course for bachelor degree students in computer science, electrical engineering, and similar technical study programmes. Participants will learn about the structure and functioning of FPGAs and how to program them in a top-down fashion. They will also be able to recognise the application area of FPGAs and the pros and cons of specific FPGAs. Additionally, they will learn conceptual modelling and implementation of digital circuits using FSM and VHDL. The focus is not only on the programming of the interior of the FPGAs but also on using peripheral devices on an FPGA board. After the course, the students will have gained competence in modern design flows using industry standard design tools. For the practical exercises, the students will have access to real FPGA boards via the internet. They can control the boards using a web browser and can watch the results shown by LEDs and a 7-segment display on the boards utilising webcams. There are several basic boards available.

#### Course structure

1. Historical Development of Programmable Devices
2. Architecture of FPGAs
3. FPGA Board, Tools, and Online Laboratory
4. VHDL Introduction – Part 1
5. VHDL Introduction – Part 2
6. VHDL Introduction – Part 3
7. Design Flow
8. Architectural design for FPGAs – Part 1: Basics
9. Architectural design for FPGAs – Part 2: State Machines
10. Architectural design for FPGAs – Part 3: Hard Macros
11. Architectural design for FPGAs – Part 4: External Board Components
12. Architectural design for FPGAs – Part 5: Advanced Techniques

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Oral examination

## Introduction to Automata, Languages, and Computation

Prof. Dr. Wolfgang Mauerer  
OTH Regensburg

### Abstract

The course “Introduction to Automata, Languages, and Computation” provides the participants with fundamental knowledge in the fields of the theory of computation, i.e., automata theory, formal languages, computability, and complexity theory. Teaching the theory of computation provides the basics for every branch of modern computer science. The insights are part of almost every curriculum in the field. Moreover, theoretical computer science encourages logical reasoning and reveals common structures pertaining to computer science in general as well as to the studies of Management Information Systems. This course imparts the knowledge, abilities, and skills university students need to solve complex problems by applying well-established concepts of information and communication technology.

### Course structure

1. Introduction and Finite Automata
2. Regular Expressions and Formal Languages
3. Context-free Grammars and Formal Languages
4. Pushdown Automata (PDA)
5. Turing Machines and Computability
6. Complexity Classes

Hours per week / Credits  
4 SWS / 6 ECTS

### Exam

Written examination

## Tele-Experiments with Mobile Robots

Prof. Dr. Klaus Schilling  
Julius-Maximilians-Universität Würzburg

### Abstract

“Tele-experiments with mobile robots” brings basic robot theory and its implementation together into an introductory course for all students. Given that this tele-course is used as part of regular on-site lectures, the course contents are kept up-to-date and always accessible. The experiments available here include a carefully selected mixture of real-world examples and simulations of robotic principles. Various topics in field robotics including kinematics, navigation principles, path planning, theoretical analysis and inverse kinematics, and sensor data acquisition and processing are discussed and students are presented with challenging quizzes before beginning the experiments. Students also spend time reflecting on acquired sensor values and their interpretation. Time delay concepts in robot tele-operation on variable bandwidth networks are also transparently presented to users as part of involuntary learning.

### Course structure

1. Kinematics of a Car-like Mobile Robot
2. Navigation Control of a Car-like Mobile Robot
3. Path Planning of a Car-like Mobile Robot
4. Modelling of the Forward and Inverse Kinematics of a Differential Drive Robot
5. Sensor Data Acquisition and Processing

Hours per week / Credits

4 SWS / 6 ECTS

Exam

Seminar paper

## Global Retail Logistics

Prof. Dr.-Ing. Evi Hartmann  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

This course offers specific insights into logistic processes in the global retail industry. By participating in the course, the students will understand the specific aspects of logistics for FMCGs [fast moving consumer goods] better and more in-depth. Each module consists of a video lecture and script. Additional material and exercises enhance the presented topics. This course distinguishes itself with its orientation towards applicability with a specific emphasis on retail logistics. The course is thereby focused predominantly on the operational area in retail logistics and thus offers a comprehensive introduction and a special focus in the area of global retail logistics.

### Course structure

1. Overview
2. Characteristics & Basics
3. Trends & Challenges
4. POS Logistics
5. Interfaces
6. Load Units & Transport Logistics
7. Cross Docking
8. Warehousing & Distribution
9. Sourcing Challenges in Emerging Markets

Hours per week / Credits

4 SWS / 6 ECTS

Exam

Written examination

## International Supply Chain Management

Prof. Dr.-Ing. Jörg Franke  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

Supply chain management “[...] encompasses the planning and management of all activities involved in sourcing and procurement, conversion, and all logistics management activities. Importantly, it also includes coordination and collaboration with channel partners [...]. In essence, Supply Chain Management integrates supply and demand management within and across companies.”

### Course structure

1. Integrated Logistics, Procurement, Materials Management, and Production
2. Material Inventory and Material Requirements in the Enterprise
3. Strategic Procurement
4. Management of Procurement and Purchasing
5. In-plant Material Flow and Production Systems
6. Distribution Logistics, Global Tracking and Tracing
7. Modes of Transport in International Logistics
8. Disposal Logistics
9. Logistics Controlling
10. Network Design in Supply Chains
11. Global Logistic Structures and Supply Chains
12. IT Systems in Supply Chain Management
13. Sustainable Supply Chain Management

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Written examination

## **Leadership and Communication in a Global World**

Introduction to International People Management

Prof. Dr. Katrin Winkler

Hochschule für angewandte Wissenschaften Kempten

### Abstract

In a more and more global business environment with increasing complexity and speed of change, companies face new challenges nearly every day. These companies are steered by leaders, which is why their role and responsibilities have become increasingly demanding as well. To be able to deal with these challenges successfully, leaders need sufficient qualifications and a solid knowledge base. This course gives an introduction to and an overview of the principles of people management in an intercultural context. The various aspects of leadership are considered in direct reference to an intercultural context. The challenges for leaders to lead employees with different cultural backgrounds and to create a motivating working environment form the base for understanding the relevant tasks and tools of leadership. In addition, the model of ethics-oriented leadership is introduced as a core concept for sustainable success.

### Course structure

1. Leadership and Communication in a Global World: An Introduction
2. Introduction to Communication and Intercultural Differences
3. Leadership and Communication in an Intercultural Setting: Basic Principles
4. Leadership Tasks and Tools from an Intercultural Perspective
5. Ethical Leadership

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination



## **Management of Change Processes in a Global World**

An Introduction to Change Management: Processes, Key Success Factors, and Roles & Responsibilities

Prof. Dr. Katrin Winkler

Hochschule für angewandte Wissenschaften Kempten

### Abstract

Today, change processes are a core element of any professional life in companies. The challenges coming with change are well known. However, a variety of projects in companies still fail when facing these challenges for lots of different reasons. In globally operating companies, intercultural aspects increase the difficulties. Especially the cultural component is often neglected in an organizational change – too often the goals are purely data-driven. Yet, many studies have shown that the corporate culture is just as important for a successful change as the strategy and the structure of a company. This course offers an overview of this important topic: What is change management? Why is change so difficult? And what are the key factors for success? These aspects are discussed with a specific focus on changes in international environments. Globalization presents both opportunities and challenges which are considered in more detail.

### Course structure

1. The Case for Change: Why Change is Necessary for a Company in a Global World
2. The Nature of Change in an International Setting
3. Change Management or Change Leadership in a Global Context?
4. Communication as the Key to Manage Change Effectively
5. Managing the (Inter-)Cultural Aspect of a Change Process
6. Change Management: Summary and Review

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination

## Managing Talent in a Global World

Prof. Dr. Rainer Thome

Julius-Maximilians-Universität Würzburg

### Abstract

The demand for highly skilled employees is steadily increasing in the global market. Hiring people with the right skills and developing them to fully use their potential is one of the most crucial challenges for leaders and companies in the future. Therefore, "Talent Management" can be read on many corporate websites as a key HR tool, but few people really understand the full scope of it. This course gives a comprehensive overview of this important topic that (future) leaders as well as HR managers must be aware of. It covers the different aspects of talent management: how to recognize and assess talent, further develop employees and continuously improve their performance, as well as succession planning and employee retention. After going through this course, students will understand the overall goal, content and structure of talent management, as well as how it is incorporated into the overall corporate strategy.

### Course structure

1. Managing Talent in a Global World: An Introduction
2. The Leader's Role in Talent Management
3. Competence Management
4. Performance Management
5. Managing Training and Development
6. Succession Management

Hours per week / Credits

2 SWS / 2 ECTS

Exam

Written examination

### **Performance Management in Teams**

Enhancing Motivation and Productivity with the Productivity Measurement and Enhancement System (ProMES)

Prof. Dr. Klaus Moser  
Friedrich-Alexander-Universität Erlangen-Nürnberg

#### Abstract

Performance management is a comprehensive systematic approach aimed at aligning the performance of groups and individuals with organizational goals and strategy and at achieving continuous improvement. Strategically derived performance indicators and motivational interventions such as goal setting, feedback, and participation are core elements of performance management. This course covers several topics that are relevant for the design of effective performance management systems.

#### Course structure

1. Motivational Theories
2. Performance Evaluation
3. Productivity Measurement and Enhancement System (ProMES)
4. Case Study
5. Developing a Team Vision
6. Developing Objectives
7. Developing Indicators
8. Developing Contingencies
9. Developing a Feedback Report

Hours per week / Credits

2 SWS / 5 ECTS

Exam

Written examination

==summer term only==

## Product Innovation Management in Emerging Markets

Prof. Dr. Björn Ivens  
Otto-Friedrich-Universität Bamberg

### Abstract

The course “Product Innovation Management in Emerging Markets” is intended for future managers and entrepreneurs who want to understand the trends in the management of product innovation in a context of emerging markets. The course includes a combination of online lectures, videos, keynotes, and case studies in which participants study the management of product innovation in emerging economies. Students will become familiar with academic literature about product innovation management in emerging markets, understand basic concepts of innovation and emerging markets, learn different types of innovations originating from emerging markets, apply their knowledge about innovation in emerging markets in case studies, and learn to apply the case study method as part of an interdisciplinary team (group presentation).

### Course structure

1. General Course Information
2. Introduction to the Course
3. How we Define Emerging Markets
4. How we Define Innovation
5. The Good Enough Innovation
6. Reverse Innovation
7. Transformation of Strategies
8. Future Outlook
9. Group Assignments

Hours per week / Credits  
4 SWS / 6 ECTS

### Exam

Oral examination / Group presentation

## Public Economics

Prof. Dr. Hanjo Allinger  
TH Deggendorf

### Abstract

Public economics focuses on the state's role in attempts to regulate the economy. Some market failures are well known and require state action. Markets can either fail because the market outcome is inefficient or because it is unjust. But how exactly should the state respond to undesired market outcomes? Several general market failures like externalities or public goods will be defined. Students learn about the appropriate state reaction to these market failures to maximize welfare in society. The course offers an introduction to taxation theory and shows which market side has to bear the burden of a tax. Students will learn how to distinguish good taxes from bad taxes. Last but not least, students will be introduced to two completely different approaches to handle justice in a scientific context: exogenous and endogenous justice. In these two fields, they learn to work with different concepts of justice and how to apply them to real world analysis.

### Course structure

1. Introduction
2. Market Failure: Public Goods
3. Market Failure: Externalities
4. Market Failure: Monopolies and Merit Goods
5. Introduction to Optimal Taxation Theory
6. Redistribution and Justice

Hours per week / Credits  
2 SWS / 2.5 ECTS

### Exam

Written examination

## Sponsorship-linked Marketing

Prof. Dr. Jörg Königstorfer  
Technische Universität München

### Abstract

Students will learn about the state of the art of sponsorship-linked marketing, including sponsorship activities in sports, arts and culture, social causes, science and education, as well as ecological causes. Sponsorship-linked marketing is the orchestration and implementation of marketing activities in order to build and communicate an association to a sponsored property. Sponsored properties can be sports teams, festivals, charities, and schools, to state some examples. The course includes both online lectures and case examples that are part of the units. At the end of the module, students understand how sponsorship portfolios are created from the perspective of different stakeholders (sponsors and ambushers, event organizers, individuals, media). The students understand the basics in sponsorship and sponsorship-linked marketing, including recent developments and the chain of effects of the sponsorship-linked marketing management process.

### Course structure

1. Introduction and Overview of the Sponsorship-linked Marketing Management Process
2. How Sponsorship-linked Marketing Activities Influence Stakeholders
3. Outcome Measurement and Controlling in Sponsorship-linked Marketing
4. Sponsorship-linked Marketing Implementation

Hours per week / Credits

4 SWS / 6 ECTS

Exam

Written examination

## Strategic Human Resources Management

Prof. Dr. Max Ringlstetter  
Katholische Universität Eichstätt-Ingolstadt

### Abstract

In this course, the basic understanding of human resource management (HRM) will be taken to a deeper level. After a short introduction, we present the core functions of HRM. Then, a more sophisticated view on HR from a strategic perspective will be taught. We highlight interdependencies between HR and corporate strategy and, lastly, emphasize the effect of the external environment on HR and show trends in strategic HRM.

### Learning objectives

After you engaged successfully in the course, you will be able to ...

- ... critically reflect on functions of and trends in HRM,
- ... analyse interdependencies of strategic corporate governance and HRM as well as evaluate effects of different measures from both perspectives,
- ... recognize the importance of an HR department given its implementation into the organization,
- ... not only analyse tasks of HRM and contextual challenges, but also to develop and critically reflect on context-specific measures, and
- ... reduce complex information to its essential core and to develop and summarize recommendations for the management in the form of an executive summary.

### Course structure

1. Introduction
2. Functions of HRM
3. Strategy Orientation in HRM
4. Professional Strategic HRM
5. Framework and Trends in Strategic HRM

Hours per week / Credits  
4 SWS / 5 ECTS

Exam  
Seminar paper

## Computer Networking and Secure Network Management Interactive Online (CNSM)

Prof. Dr.-Ing. Alexandru Soceanu  
Hochschule für angewandte Wissenschaften München

### Abstract

Part I: The standard ISO/OSI computer networking model is introduced and compared with the TCP/IP model. The most important protocols and services of each layer used for networking the local and remote computers are presented. All protocols are analysed hands on using remote virtual labs and analyser tools. The roles and the main features of the network components are addressed, as well.

Part II: The role and the objectives of network management (NM) for an organization are initially addressed. Various standard and private Management Information Bases (MIB) and remote MIBs are presented. The different types of NM tools and protocols are experienced hands on based on virtualized experimental virtual networks and software tools. Experiments are also conducted on the fundamentals of the Reconnaissance and DoS network attack types. An understanding is gained of the need for protection tools. Legacy protection tools and other techniques for protecting the network components are addressed.

### Course structure

#### Part I: Fundamentals of Computer Networking

1. Computer Networking Terminology & Architecture
2. Application Layer, Transport Layer, and Network Layer
3. Multiprotocol Label Switching (MPLS)
4. Data Link Layer Wired and Wireless Networks
5. Multimedia Technology

#### Part II: Secure Computer Network Management

1. Surveys of Fundamentals on Computer Networks
2. Network Management (NM) Architecture
3. Management Information Bases (MIBs)
4. NM Protocols
5. Managing Network Security & Protection

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Written examination



## Integrated Production Systems

Prof. Dr.-Ing. Jörg Franke  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

Participants of the lecture “Integrated Production Systems” get an overview of the tasks of a production manager in an international company. The lecture explains, based on the overall goals of an integrated production system, the main methods and tools of a lean culture. The contents are presented in learning videos and slides. Additionally, students have to work on practical case studies.

### Course structure

1. Production Systems in the Course of Time
2. Structure of Integrated Production Systems
3. Implementation of Integrated Production Systems
4. Continuous Improvement Process
5. Process Orientation in Production Systems
6. Lean Global Production
7. Total Quality Management
8. Low Cost Automation
9. Total Productive Maintenance
10. Material and Energy Efficiency
11. Information Efficiency
12. Lean Development
13. Lean Administration

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Written examination

## Medical Image Processing for Diagnostic Applications

Prof. Dr.-Ing. Andreas Maier  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

In this course you will learn about the different modalities in medical image processing, learn the necessity of image preprocessing specific to the acquisition type, you will engage yourself in fundamentals and algorithmic details of the 3D-reconstruction, and get to know several options for image registration in all their mathematical beauty.

### Course structure

1. Course Introduction
2. Mathematical Tools: Singular Value Decomposition
3. Mathematical Tools (optional): Fourier Transform
4. Preprocessing: Undistortion
5. Preprocessing: Defect Pixel Interpolation
6. Preprocessing: MR Inhomogeneities
7. Image Reconstruction: Basics
8. Image Reconstruction (Optional): Projection Models
9. Image Reconstruction: Parallel Beam
10. Image Reconstruction: Fan Beam
11. Image Reconstruction: 3-D Reconstruction
12. Image Reconstruction: Modalities
13. Image Reconstruction: Iterative Reconstruction
14. Rigid Registration: Rigid Transformations
15. Rigid Registration: ICP Algorithm

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Written examination

## Clinical Economics

Prof. Dr. Horst Kunhardt  
Technische Hochschule Deggendorf

### Abstract

The course “Clinical Economics” is designed to three target groups that make health care decisions and have to know both the costs and the patient and societal values of health services. These groups are health care providers (doctors, nurses, nursing scientists, “Y”-nurses, physiotherapists), health care managers and economists (health managers, patient managers, hospital managers, disease managers, health insurance specialists, health scientists, risk managers in health care) and health informatics experts (health informatics experts, health prevention specialists, information managers in health care).

### Course structure

#### Definition and need of CLINECS

- Why the Human Mind is not Sensible Enough to Scientific Evidence
- Taking Internal Beliefs into Consideration in Critical Appraisal of External Evidences
- The Basis for the Null Hypothesis Principle in Medical Thinking
- Extreme Plausibility Principle and its Variants.
- Proof of Concept Principle
- The Very First Step in Critical Appraisal: Is the Hypothesis Worth to be Tested?
- Why Most Published Studies are False
- The Prevalent Phenomenon of Publication Bias
- Identifying Results too Good to be True (“Smelling” Studies)
- Defining the Right Outcomes in Clinical Trials
- Good and Bad Primary Outcome Definition on Trials
- Self-fulfilling Prophecies as Primary Outcomes of Trials
- The Weakness of Randomization: It Cannot Control for Preferences
- Common Traps in Composite End-Points
- The Counterintuitive (but Adequate) Intent to Treat Analysis

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Seminar paper

## Cross-border Health Care Management

Prof. Dr. Horst Kunhardt  
Technische Hochschule Deggendorf

### Abstract

The lecture “Cross-border Health Care Management” offers students from various disciplines insights into the structure and framework of the global health care industry in a modern, internationally networked health care system.

### Course structure

1. Supply and Demand in Medical Tourism and Cross-border Health Care
2. Countries of Origin and Destination in Medical Tourism
3. Legal Issues of Cross-border Health Care Management
4. Marketing in Medical Tourism
5. Transcultural Features of International Patients
6. Processes in Medical Tourism
7. Ethics and Morals
8. Case Studies

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Seminar paper

## Computational Methods in the Internet Economy

Prof. Dr. Michael Scholz  
Universität Passau

### Abstract

In this course, participants will learn how to apply commonly used quantitative methods to analyse internet data. The course will focus on online consumer behaviour, trust games, and network analysis. Specifically, students will explore how individuals behave in an online shopping environment and what algorithms and techniques can be used to examine their decision-making processes. Practical examples and research are used to illustrate quantitative methods. Most algorithms are implemented in the programming language R. The course provides a brief introduction to using R for data analysis. At the end of each chapter, tests and practical assignments in R will help students assess how well they covered the material.

Prior Knowledge: Basic knowledge of statistical reasoning will be useful, but not compulsory. No programming experience is required.

### Course structure

1. Introduction: Definition “Internet Economy”, Computational Methods in Internet Economy, Computation Example with R
2. Consumer Behaviour: Modelling Purchase Decision-Making Processes, Opinion Mining, Implementation in R
3. Games in Internet Economy: Foundations of Game Theory, Reputation Mechanisms, Implementation in R
4. Network Analyses: Graphs and Networks, Link Analysis, Social Network Analysis, Implementation in R

Hours per week / Credits

4 SWS / 6 ECTS

Exam

Written examination

## Decision Analysis in Information Systems

Prof. Dr. Guido Schryen  
Universität Regensburg

### Abstract

“Decision Analysis” is a field that analyses human decision behaviour and provides decision support in terms of mathematical models and quantitative methodologies. It is applied in many practical applications, including production planning, facility location, freight transport, and portfolio selection. In this course, participants will learn how to model real world scenarios with quantitative models and solve them efficiently. The course includes an introduction to decision making and to approaches for decision making under risk and under uncertainty. With regard to decision making under certainty, the course addresses various mathematical optimisation approaches, including linear optimisation, discrete optimisation, and nonlinear optimisation. In order to illustrate the theoretical constructs, the course contains practical examples and exercises in the programming language R.

### Course structure

1. Decision Making: Introduction, Decision Making under Uncertainty and under Risk, Decision Making and Utility, Implementation in R
2. Linear Programming: Introduction, Geometrical Perspective, Algorithmic Perspective, Transportation Problem, Implementation in R
3. Discrete Optimisation: Introduction, Motivational Examples, Branch & Bound Algorithm, Implementation in R
4. Nonlinear Programming: Introduction, Motivational Examples, Modelling Nonlinear Programs, Solving Nonlinear Programs, Implementation in R

Hours per week / Credits

4 SWS / 6 ECTS

Exam

Written examination

## E-Business Strategy and Networking

Prof. Dr. Freimut Bodendorf  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

The course analyses decisions in electronic business activities considering all relevant actors: a company's customers, its suppliers, and its cooperation partners. The main aspect of the course is to analyse new business structures and processes of companies with their partners/customers, suppliers, employees, and cooperating companies. The different perspectives of the analyses are:

- a communication, coordination and cooperation level
- a technology, economic and management perspective
- a transaction, relation and process view

In these areas, the course offers basic theories that lead to comprehensive concepts for application systems in different economic situations.

### Course structure

1. E-Business Overview
2. Levels of E-Business
  - 2.1 Communication
  - 2.2 Coordination
  - 2.3 Cooperation
3. E-Business Strategies
  - 3.1 Strategic Management
  - 3.2 Management Approach
  - 3.3 Strategy Analysis
  - 3.4 Strategy Development in E-Business
  - 3.5 IT-Governance
4. E-Business Networking
  - 4.1 Theories of Organization
  - 4.2 E-Markets and Market Engineering
  - 4.3 Electronic Network Management
  - 4.4 Social Networking

Hours per week / Credits  
2 SWS / 2.5 ECTS

Exam  
Written examination

## **Fundamentals of Project Management**

Business and IT

Prof. Dr. Markus Westner  
OTH Regensburg

### Abstract

The course “Fundamentals of Project Management” introduces you to the main concepts, standards, methods, and approaches relevant to project management from a managerial perspective. The course requires no specific prerequisites. Examples are geared towards IT and business projects. Apart from covering the fundamental concepts, the course focuses on the most important activities in project management as illustrated in the syllabus from chapter 3 to 13.

### Course structure

1. Introduction
2. Organizational Aspects of Projects
3. Project Selection
4. Leadership and the Project Manager
5. Scope Management
6. Project Team Building, Conflict, and Negotiation
7. Risk Management
8. Cost Estimation and Budgeting
9. Project Scheduling
10. Agile Project Management
11. Resource Management
12. Project Evaluation and Control
13. Project Closeout and Termination

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination



## IT Support in Supply Management, Part I

Optimised operational processes

Prof. Dr. Ronald Bogaschewsky  
Julius-Maximilians-Universität Würzburg

### Abstract

Participants acquire knowledge regarding the potential of optimised processes supported by software systems, which is of significant importance for purchasers. Students will learn what types of solutions are available for different procurement tasks. Participants will also learn how the parties involved have to adjust their processes in order to generate the best possible economic benefit. Students will be taught how to pursue projects introducing and rolling-out electronic procurement solutions. Additionally, participants will learn how to motivate staff and users in order to ensure optimised system utilisation.

### Course structure

#### Module 0:

1. Procurement: Tasks and Objectives
2. Categorisation of IT Tools
3. Integrated Strategic and Operational IT-based Processes in Procurement: The SCOPE Specs

#### Module 1: Optimised Operational Processes

1. Analysis of Operational Processes
2. Optimised Operational Processes
3. eCatalogs and eStandards
4. Usage Models
5. Tasks of the Procurement Function
6. Performance and ROI Analysis
7. Effects of Optimised O2P Processes on Suppliers
8. Project and Change Management
9. Conventional MRP Systems and Execution Systems
10. Electronic Supply Chain Management

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination

## IT Support in Supply Management, Part II

Strategic processes and tools

Prof. Dr. Ronald Bogaschewsky  
Julius-Maximilians-Universität Würzburg

### Abstract

Participants acquire knowledge regarding the potential of optimised processes supported by software systems, which is of significant importance for purchasers. Students will learn what types of solutions are available for different procurement tasks. Participants will also learn how the involved parties have to adjust their processes in order to generate the best possible economic benefit. Students will be taught how to pursue projects introducing and rolling-out electronic procurement solutions. Additionally, participants will learn how to motivate staff and users in order to ensure optimised system utilisation.

### Course structure

#### Module 0:

1. Procurement: Tasks and Objectives
2. Categorisation of IT Tools
3. Integrated Strategic and Operational IT-based Processes in Procurement: The SCOPE Specs

#### Module 2: Strategic Processes and Tools

1. Strategic Issues and Processes in Supply Management
2. Electronic Market Places: Aim, Structure, and Functionalities
3. E-Sourcing: Issues, Processes, and Tools
4. E-Auctions: Principles and Tools
5. Spend Analysis and Supply Market Analysis
6. IT-supported Supplier Relationship Management
7. Collaboration Tools in Supply Management

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination

## Knowledge Management

Prof. Dr. Franz Lehner  
Universität Passau

### Abstract

Companies face a growing importance of gaining easy and fast access to information, which can often be multimedia-based. For a long time, databases have been the most appropriate medium to fulfil this task. But recently, new developments and technologies have emerged, which led from isolated database concepts to company-wide information models using embedded web technologies, and, at the same time, allowed the reinterpretation of existing economic concepts. The goal of this course is to establish an understanding of the tasks, concepts, approaches, and conditions for knowledge management. Furthermore, a connection will be established between the technological capabilities and management approaches as well as the more comprehensive concepts of organisational knowledge.

### Course structure

1. Introduction and Scope
2. Definitions of Knowledge and Concepts of Organisational Memory
3. Knowledge Management Concepts and Frameworks
4. Knowledge Management Activities and Methods
5. Knowledge Management Systems and Tools for Knowledge Management
6. Content and Document Management Systems (CMS/DMS)
7. Knowledge Management and Web 2.0 – Part 1: Social Software
8. Knowledge Management and Web 2.0 – Part 2: Wikis
9. Search Engines and Knowledge Visualisation
10. Institutionalisation and Social Aspects of Knowledge Management
11. Measuring Knowledge Management Success
12. Interdisciplinarity of Knowledge Management and Reference Disciplines

Hours per week / Credits  
4 SWS / 6 ECTS

### Exam

Written examination

## Intercultural Communication I

Prof. Dr. Martina Rost-Roth  
Universität Augsburg

### Abstract

The learning material for this course is available in English with the aim of helping international students, in particular, to understand and participate in the course. However, forum activities will be in German only and compulsory tasks must be submitted in German. Likewise, it is only possible to take the final examination in German.

### Course structure

1. Welcome
2. Intercultural Awareness
3. Assessing Culture
4. Culture and Language
5. Intercultural Business Communication

### Hours per week / Credits

2 SWS / 4-7 ECTS

### Exam

Written examination

## Scientific Writing

Prof. Dr. Katja Radon  
Ludwig-Maximilians-Universität München

### Abstract

“Scientific Writing” in English is a crucial qualification course for students of all disciplines and all academic levels. Specifically for students of natural sciences who are often required to write texts in English (ranging from letters and emails about papers, to abstracts, posters, scientific publications, and grant applications), this course shall not only help them face the “fear of blank page” but also help them overcome the language barrier. The online seminar “Scientific Writing” targets students of natural sciences and health sciences who wish to improve their academic writing skills in English. The course helps students attain skills in literature searching, drafting various parts of scientific publications, and publishing and presenting the results of scientific work in English. The objective is to provide a brief theoretical introduction on each topic of the course. Exercises with clearly defined tasks give students the opportunity to test what they have learned and applied directly during the seminar. For example, the student has the opportunity to draft one’s own scientific publication step-by-step. Immediate feedback from the tutor can help the students with their queries if they are stuck.

### Course structure

1. Getting Started
2. The Writing Process
3. Publishing and Presenting
4. Evaluation and Conclusion

Hours per week / Credits  
2 SWS / 3 ECTS

### Exam

Seminar paper / Online examination

## Business English Scenario Training BEST4Engineers

Prof. Dr. Sylvana Krauße  
Hochschule für angewandte Wissenschaften Aschaffenburg

### Abstract

The online course Business English Scenario Training for Engineers (or in short BEST4Engineers) is designed for engineering students who want to acquire basic skills for writing e-mails, telephoning and business-related small talk situations. BEST4Engineers consists of two task-based scenarios with six units each. Every unit contains preliminary exercises in which the students gain a deeper understanding of the respective topic. The acquired skills are subsequently applied in their assignments.

### Course structure

#### Scenario 1: A Technical Visit

1. Addressing Requests
2. Exchanging Contact Details
3. Fixing Appointments
4. Rescheduling Appointments
5. Enjoying Dinner Talk
6. Expressing Appreciation

#### Scenario 2: A Sales Situation

1. Finding Suitable Equipment
2. Talking Numbers
3. Visiting Trade Fairs
4. Calls for Offers and Procurement
5. Handling Complaints
6. Solving Problems

Hours per week / Credits  
2 SWS / 2 ECTS

### Exam

Written examination

## English Competence and Research Training for Health Professionals

Prof. Dr. Christian Rester  
Technische Hochschule Deggendorf

### Abstract

This course is designed for students from a variety of health fields who want to broaden their knowledge about research skills and selected health topics. Students will improve their ability to read and interpret health articles which are taken from many different sources. Competence with basic terminology and technical language will also be improved by the examination of these research documents. Each chapter contains learning videos, articles, and tests to focus the learning of the students about these specific health topics.

### Course structure

1. International Health Systems
2. Evidence-based Health Care
3. Physical Health and the Way towards it
4. The Challenges of an Aging Society
5. The Importance of Understanding Pain
6. Health Promotion: Starting before Health Stops

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Written examination

## English for Studying, Working, and Living Abroad (B2.2)

Emma Phelan, Anna Tüchert  
Julius-Maximilians-Universität Würzburg

### Abstract

This is an online skills course for students from all academic fields. This course is designed for the student that would like to go abroad to study and/or work and is oriented on the B2 level of the Common European Framework. “English for Studying, Working, and Living Abroad” will concentrate on covering letters, email communication and banking, housing/accommodation, and survival skills all with a touch of intercultural training. It is a task-based course where students learn to identify key vocabulary in job adverts and assess their skills using a SWOT (strengths, weaknesses, opportunities, and threats) analysis. The participants write a covering letter and improve email writing skills through:

- email register
- correct word usage

Furthermore, they improve intercultural skills through vocabulary and terminology in:

- banking
- finding accommodation
- arranging a medical appointment and going to the doctor

### Course structure

1. Job Descriptions and Covering Letters
2. Email Communication
3. Banking/Housing/Accommodation and Dealing with Medical Appointments

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Modular tests



**English for Sustainable Technologies – Re-newable Energy, Smart Buildings, and Electric Mobility  
(CEFR Level B2)**

Introductory Course

Prof. Dr. Isabell Vollmuth, Bill Field  
Hochschule für angewandte Wissenschaften Landshut

Abstract

This course covers the three topics of renewable energy, smart buildings, and e-mobility. The learners will gain a deeper understanding of these topics and their development in Germany, and, very importantly, improve their English skills as they relate to these subjects. Learners will use their listening, reading, writing and grammatical skills in completing the course units for all subjects.

Course structure

Unit 1: Introduction

Module: Renewable Energy

Unit 2: Solar Technologies

Unit 3: Wind Technology

Unit 4: Hydropower

Unit 5: Renewable Energy for the Future

Module: Smart Buildings

Unit 6: Building Design

Unit 7: Building Management Systems

Unit 8: Passive Buildings

Unit 9: Intelligent Workplaces and Dwellings

Module: Electric Mobility

Unit 10: Hybrid Technology

Unit 11: Electric-only Cars

Unit 12: Other Renewable-mobility Technologies

Unit 13: The Future of Transport

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination

## English Vocabulary and Usage for Physics C1

Peter Hull, Dr. Gunter Lorenz  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

“English Vocabulary and Usage for Physics C1” is aimed at the development and expansion of students’ subject-specific vocabulary at C1 level. The course is designed to allow learners to improve both their vocabulary range and the accuracy of its usage.

### Course structure

1. Empirical and Experimental Work
2. Mathematics and Calculation
3. Presentations and Talks
4. Important and Famous Theories
5. Argumentation and Data

- The course consists of 5 modules, each associated with a different aspect of the use of English in physics.
- Each module uses its topic as a vehicle for the development and expansion of the learner’s vocabulary range and the correct, natural usage of this terminology.
- The modules each contain notes, written exercises, and listening exercises, allowing students to train the correct application of the vocabulary introduced.
- The course will be graded on the basis of a single written examination at the end of the semester, the details of which will be published directly in the course during the semester.

Hours per week / Credits

2 SWS / 2.5 ECTS

Exam

Written examination

## e-Xplore Technical English®

Prof. Dr. Uwe Bellmann

### Abstract

Just as conventional foreign language text books, this course is also comprised of several units, with each dedicated to specific technical, terminological, functional and grammatical focal points. In addition to the units, a terminology trainer and two C-tests are included. The course also offers a fundamental grammar review and an up-to-date glossary. Contextual usage and word meaning can be comfortably explored by means of the tools offered. The course is complemented by so-called short guides: a pool of useful information and exercises for adult learners of English. Furthermore, there is a comprehensive list of recommended links to diverse websites which support further English language learning on an ongoing basis.

### Course structure

Central components of the units are texts for reading and listening comprehension, which represent a variety of relevant text sorts. These are introduced and followed up through useful assignments and exercises such as:

- Researching Information
- Vocabulary and Terminology Introduction
- Grammar Introduction
- Practice in Text Reconstruction
- Multiple-Choice Tasks
- Matching Tasks
- Dictation Practice
- Pronunciation Practice
- Text Analysis Assignments of Various Kind
- Quizzes

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Online examination

### **Flaw and Order**

The Grammar of Word Order and Information Structure in English

Dr. Gunter Lorenz

Friedrich-Alexander-Universität Erlangen-Nürnberg

#### Abstract

“Flaw and Order” is aimed at advanced learners of English who study English as a main subject. It is intended as an online component of a classroom course; it is not recommended for use without an on-campus course at your university. Ideally, “Flaw and Order” would be used to complement a course in academic writing or other formal types of text production. It focuses on the rules of word and constituent order in English (part 1) as well as on the application of the principles of information structure (part 2). Even advanced students of English are not always aware of where to put the most relevant, new, or weighty information in a sentence. The course “Flaw and Order” attempts to make learners aware of this deficit and of ways of remedying it. Due to the limitations of the online medium, the application of the principles acquired needs to be trained in practical writing classes. The computer can in no way replace intelligent human teaching and feedback here.

#### Course structure

1. Word Order Rules in English (3 Units)
2. Principles and Grammar of Information Structure (4 Units)

Hours per week / Credits

2 SWS / 3 ECTS

Exam

Written examination

## International Project Management B2

Prof. Dr. Isabell Vollmuth, Bill Field  
Hochschule für angewandte Wissenschaften Landshut

### Abstract

This course covers the four themes of Communication Media, Tools for International Project Management, Intercultural Conflicts/Challenges in an International Environment, and Project Management. The learner will gain a deeper understanding of these themes, their development in Germany, and very importantly, improve their English skills as they apply to these subjects. Learners will use their listening, reading, writing and grammatical skills in completing the course units for all subjects.

### Course structure

1. Introduction
2. E-Mail/Informal Written
3. Presentations
4. Teleconferences/Telephoning
5. Software Tools
6. Rapid Prototyping
7. 3-D Printing
8. High and Low Context Cultures
9. Verbal and Non-verbal Communication
10. Dealing with Intercultural Conflicts
11. Documentation
12. Managing People
13. Managing Across Borders

Hours per week / Credits  
2 SWS / 2 ECTS

### Exam

Written examination

### **ReMedial Grammar Advanced**

An Online Error Correction Module for Advanced Learners of English  
(for Students of English only)

Dr. Gunter Lorenz  
Friedrich-Alexander-Universität Erlangen-Nürnberg

#### Abstract

“ReMedial Grammar Advanced” is intended to help advanced learners of English better understand how grammar works in context – at their respective individual paces. The course is not intended as yet another grammar of English; there are plenty of good student grammars available already. Nor is it strictly a grammar course with basic structures at the beginning and a systematic progression to more complex ones. In the exercises, all finite and non-finite verb forms can come up, and in our explanations we presuppose a reasonable knowledge of the actual rules and give reminders of how they are to be applied in context. “ReMedial Grammar Advanced” is intended as an online component of a classroom course; it is not recommended for use without an on-campus course at your university.

#### Course structure

- Finite and non-finite verb forms
- 6 + 6 test units (exam mode and exercise mode)

#### Hours per week / Credits

2 SWS / 3 ECTS

#### Exam

Written examination

## Technical Writing for Scientists and Engineers (B1/B2)

Mike Schwer

Technische Hochschule Nürnberg Georg Simon Ohm

### Abstract

This course is for students who plan to study or work in an English-speaking country, want to publish internationally (i.e., journal articles, patents, product descriptions) or frequently come into contact with English due to their chosen field of study. Students learn how to organize and express facts and ideas through written text in order to create documents for the workplace.

### Course structure

Topic 1: The Writing Process (Organising Ideas and Creating Outlines, from the Outline to the First Draft, Scrutinising your Text, Module Revision Test)

Topic 2: Letters, Emails, and Beyond (Correspondence, Netiquette, Negation, Did You Know?, Module Revision Test)

Topic 3: Describing Your Data (SI Units and Technical Writing, Tables, Graphs and Charts, Did You Know?, Module Revision Test)

Topic 4: Writing Instructions (Instructions, Expressing Mood, Capitalization, Did You Know?, Module Revision Test)

Topic 5: Intellectual Property (Trade Secrets, Passive Voice, Did You Know?, Module Revision Test)

Hours per week / Credits

2 SWS / 2 ECTS

Exam

Written examination

## European and International Monetary Law

Prof. Dr. Christoph Herrmann  
Universität Passau

### Abstract

Law students will be equipped with a basic understanding and knowledge of the structure and functioning of modern monetary systems as well as the fundamental legal frameworks that govern them at international and European levels. This will enable them to independently and critically assess developments and issues in this particular field from a legal point of view on the basis of EU and international law. Students of international economics and of public policy/governance will be able to describe and understand international and European monetary law from a legally informed perspective and therefore assess issues in monetary law from a basic legal point of view. They will have broadened their existing knowledge in the fields of economics and political science through an interdisciplinary approach to international monetary relations.

### Course structure

#### A. Interdisciplinary Introduction

#### B. International Monetary Law

- Monetary Sovereignty under Public International Law
- History of International Monetary Law
- Fundamental Legal Problems of International Monetary Relations
- The International Monetary Constitution: The IMF Articles of Agreement – Institutional Design and Decision-making and Substantive Legal Obligations

#### C. European Monetary Law

- History of Monetary Integration in Europe
- The Legal Framework of EMU post Lisbon – Institutional Setup and Substantive Legal Rules
- EMU and the Sovereign Debt Crisis – Measures and Legal Assessment

Hours per week / Credits

2 SWS / 5 ECTS

Exam

Written examination or essay



## European Trade and Investment Policy and External Trade Law

Prof. Dr. Christoph Herrmann  
Universität Passau

### Abstract

The course builds on existing knowledge in the field of EU Law and basic knowledge of World Trade Law in order to provide students with special and in-depth knowledge of European external trade and investment law as well as policy. The course deals with three of the main topics of the European Unions' common commercial policy: external trade law, customs law, and investment law. Within the framework of the common commercial policy the Member States have nearly fully transferred their sovereign rights to the European Union, lastly through the Treaty of Lisbon (2009). Since the 1960s, the European Union has enacted comprehensive regulations on trade policy and has negotiated various comprehensive trade and investment agreements. The most critically acclaimed recent novelty is the extension of the EU's exclusive competence for the CCP to include foreign direct investment.

### Course structure

#### A. European External Trade Law

- The European Union Customs Union
- The Application of European Customs Law
- The Development and Current Status of European External Trade Law
- The Objectives and Instruments of European External Trade Law
- The Division of Competences in European External Trade Law

#### B. European External Trade Policy

- The Treaty-Based European External Trade Policy (2 weeks)
- The Autonomous European External Trade Policy (2 weeks)

#### C. European Investment Policy

- The Development of European Foreign Investment Law
- The Division of Competences in European Foreign Investment Law
- Intra-EU Bilateral Investment Treaties
- The European International Investment Policy

Hours per week / Credits

2 SWS / 5 ECTS

Exam

Written examination

## German Company Law

Prof. Dr. Christoph Teichmann  
Julius-Maximilians-Universität Würzburg

### Abstract

The course takes the form of a text-based script which, in addition to theoretical discussion, includes cases, their solutions, and review questions. Combined with a discussion forum, the course script will enable students to gain a basic understanding of German company law in an international context. The course emphasis lies upon the characteristics of German law, which distinguish it from other jurisdictions. The course therefore enables students to gain knowledge of the legal framework within which companies operate and also offers the opportunity to improve technical English skills.

### Course structure

- Chapter 1: Introduction
- Chapter 2: Director's Remuneration
- Chapter 3: Corporate Mobility and International Company Law
- Chapter 4: Partnerships (1. GbR and OHG; 2. KG)
- Chapter 5: GmbH
- Chapter 6: Corporate Governance in the AG
- Chapter 7: Employees' Co-determination
- Chapter 8: Capital and Creditor Protection
- Chapter 9: Group Law

### Hours per week / Credits

2 SWS / 5 ECTS

### Exam

Written examination

## Legal Issues of Regional Economic Integration

Prof. Dr. Christoph Herrmann  
Universität Passau

### Abstract

The course starts with an introduction unit describing the international economic system that is based on two pillars, namely multilateral relations, e.g. the regime of the World Trade Organization (WTO), and bi-, respectively plurilateral relations in the form of regional trade agreements (RTAs). The course also provides an overview of the legal and institutional foundations of regional economic integration with regard to the WTO system and a three-unit specialisation on three specific legal issues related to regional integration of merchandise trade. Further, the course covers the essential issues that are subject matter of so-called “21st century trade agreements” like the TPP or CETA.

### Course structure

1. Regional Economic Integration through Law: an Introduction
2. Legal and Institutional Foundations of Regional Economic Integration
3. Structural Features of Regional Economic Integration
4. Regional Integration of Merchandise Trade
5. Preferential Rules of Origin
6. SPS Regulation in RTAs and Regulatory Cooperation
7. Customs and Trade Facilitation
8. Regional Integration of Services Trade
9. Bilateral and Regional Protection and Liberalization of Investments
10. Bilateral and Regional Protection of Intellectual Property
11. Regional Commitments on Competition Policy and Trade Defence Instruments
12. Regional (Free) Movement of Natural Persons
13. Monetary Union
14. REI Entities in Global Governance: the EU
15. Regional Economic Dis-Integration: the Brexit

Hours per week / Credits

2 SWS / 5 ECTS

Exam

Written examination

## Advanced Occupational Safety and Health

Prof. Dr. med. Hans Drexler, Prof. Dr. Katja Radon  
Ludwig-Maximilians-Universität München

### Abstract

The course is divided into two parts, “Biological Monitoring in Occupational Health” (Part 1) and “Occupational skin diseases” (Part 2). Part I begins with the basic aspects of anatomy, physiology, and toxicology. The knowledge of these is a fundamental pre-requisite for understanding the concept of “Biological Monitoring in Occupational Medicine”. The most important aspects of biological monitoring are then explained with the help of realistic cases. Part II deals with skin diseases that are occupationally-induced. After an introduction of the fundamental aspects of the structure and functions of the skin, the most common occupationally-induced skin diseases are presented using realistic cases. The cases are presented with the help of case stories, photographs, and expert comments. The case stories illustrate the causes, symptoms, diagnoses, biomonitoring methods, lines of therapy, and preventive measures. The user-friendly learning tool, CASUS, provides the learning platform for the cases. At the end of the course the student will have gained knowledge and understanding of the basic concepts and methods in biological monitoring and occupational dermatoses.

### Course structure

Part 1: Biological Monitoring in Occupational Health

Part 2: Occupational Skin Diseases

### Hours per week / Credits

2 SWS / 3 ECTS

### Exam

Online examination

## Epidemiology / Public Health

Prof. Dr. Katja Radon  
Ludwig-Maximilians-Universität München

### Abstract

The academic course “Epidemiology / Public Health” is built on computer-based, English-language case studies from the field of epidemiology / public health. Epidemiology is concerned with the question of how diseases spread among different populations and studies the factors that influence and determine the patterns of disease spread. Different subareas can be distinguished in this respect. Public health belongs to the field of health sciences and deals with the theory and practice of disease prevention, extension of life expectancy, and health promotion through organised community-oriented measures. In addition to identifying the risk factors, public health also places the identification of health promoting factors (salutogenesis) as well as the analysis and evaluation of healthcare structures centre stage. The knowledge about relevant epidemiological and medical issues is taught by means of case histories, photo materials, and expert statements.

### Course structure

1. Introduction into the Course
2. Epidemiology and Prevention of Heart and Blood Circulation Diseases
3. Epidemiology and Prevention of Cancer (Screening)
4. Epidemiology and Prevention of Cancer (Mobile Devices)
5. Epidemiology and Nutrition
6. Global Public Health
7. Occupational Epidemiology
8. Genetic Epidemiology
9. Lifestyle Factors

Hours per week / Credits  
2 SWS / 2 ECTS

Exam  
Online examination

## ABC: Approach to the Basics of Calculus

Prof. Dr. Hans-Georg Weigand, Prof. Dr. Thomas Weth  
Julius-Maximilians-Universität Würzburg

### Abstract

The course introduces the basics of calculus, which are necessary for success in a calculus lecture at the university. It can be taken as a preparatory course before the first semester and before the lecture “Calculus I” starts. But it can also be taken parallel to the lecture “Calculus” in the first semester.

The course was developed together with the Finnish Virtual University and Dr. Antti Rasila from the Helsinki University of Technology.

### Course structure

1. Sequences and Limits
2. Functions
3. Properties of Functions
4. Differentiation

Hours per week / Credits

2 SWS / 2 ECTS

### Exam

Written examination / Exercise

## Policy Making in the European Union

Institutions and Decision-Making Processes in Selected Policy Fields

Prof. Dr. Daniel Göler  
Universität Passau

### Abstract

This English-language course deals with the structures and the internal decision-making processes of the European Union (EU). For giving you a better understanding of this process, the theoretical knowledge about the European system is supplemented with insights into a special policy field of the EU, the European Migration and Asylum Policy. By attending this course you can learn everything about the basics of the EU, the internal structure of its bodies, the European Migration and Asylum Policy as well as the impacts of the migration and asylum debate of the EU as a whole.

### Course structure

Part 1: Learning the Basics: The Multi-Level Governance System of the EU

- The Emergence of the EU: Stages of Development from the Treaties of Rome until Today
- The European Union: An Association of States Sui Generis?
- How Does the EU Work? Theoretical Background and Instruments of Analysis

Part 2: Decision-Making Processes in the EU

- Political Decision-Making in the EU between Deliberation and Bargaining
- The Institutional Structure I: European Council and European Commission
- The Institutional Structure II: European Parliament and Council of the European Union

Part 3: Case Study: The European Migration and Asylum Policy

- Still Supranational Decision-Making in the EU? The Migration and Asylum Policy
- The Dublin Regulations and Their Challenges
- Current Challenges Caused by the Migration and Asylum Policy

Part 4: Changes and Impacts by the Migration and Asylum Debate in the EU

- Impacts of Nationalism and Euroscepticism on the European and National System
- Does the EU Fail or Will We Get Another Union?
- Consolidating Results and Concluding Discussion, Final Exam

Hours per week / Credits

2 SWS / 5 ECTS

Exam

Position paper or written examination

## Regionalism and Global Governance

Prof. Dr. Bernhard Stahl  
Universität Passau

### Abstract

The course examines the wide spectrum of promising potential and high hurdles facing regional integration. Various regional organisations (ROs) are presented and analysed. The main focus is placed on the analysis of institutional characteristics of ROs (structures, decision-making processes) as well as their role in providing governance functions in the global context. Against the background of inter-regional agreements increasingly displacing global, multinational agreements, ROs play an increasing role for 'global governance without global government'.

### Course structure

#### Chapter 1: Introduction and Theories

- Introduction
- Liberal Institutionalism
- Theories of Regional Integration
- Sociological Neo-Institutionalism

#### Chapter 2: Regional Organizations (ROs) – Cases and Analysis

- African ROs
- Arab ROs
- Pan- and Latin American ROs
- North American ROs
- Asian ROs
- European ROs

#### Chapter 3: ROs and Global Governance

- "Second-best solutions" – Interregionalism as an answer to stalling Global Governance?
- Interregionalism and the EU
- Legitimacy and Acceptance of ROs
- Closing Session

Hours per week / Credits  
2 SWS / 3-10 ECTS

Exam  
Seminar paper



## International Approaches of Social Work and Human Rights

Prof. Dr. Claudia Lohrenscheit  
Hochschule für angewandte Wissenschaften Coburg

### Abstract

Learning about children's rights is essential for social workers, parents, teachers, and all those who are working with or who are in close contact to children. In this course, students will learn about the universal Convention on the Rights of the Child (CRC) including its core principles and structural elements. To understand why the current discourse on inclusion is of utmost importance for both social work and human rights it is necessary to take a look back in history. Therefore, in the second part of the course, the application of the eugenic ideal of the so called "Nordic race" will be in focus. The various chapters include an introduction to the time of the Nazi dictatorship and National Socialism (1933-1945). It will highlight especially the history of forced sterilisations and institutional murders, but it will also discuss forms of resistance. On this basis current issues and trends focusing on the right to inclusive education as well as on diversity will be discussed.

### Course structure

#### Part 1: International Approaches of Social Work and Children's Rights

1. Convention on the Rights of the Child
2. Childhood in a Global/Local Context
3. Play, Education, and Work
4. The Sense of Belonging
5. Human Rights Education with Children

#### Part 2: International Social Work, Disability, and Inclusion

1. Disability, Illness, and Euthanasia in Nazi Germany
2. After the War in Germany (1945 until Today)
3. After the War at an International Level (1945 until Today)
4. The Right to Inclusive Education

Hours per week / Credits

4 SWS / 5 ECTS

Exam

Seminar paper

## Foreign Language Learning and Teaching with Digital Media

Prof. Dr. Thorsten Piske  
Friedrich-Alexander-Universität Erlangen-Nürnberg

### Abstract

Through the ten modules of this course, students of foreign language didactics become acquainted both with basic issues of digital media in EFL classrooms and with the practical usage of digital tools therein. The latest digital media will be introduced against their theoretical background and will be analysed, critically reviewed, and creatively adapted to meet the requirements of contemporary foreign language didactics. This course examines various pros and cons of digital tools for learning processes and prepares students to reasonably integrate digital instruments into their own future teaching, with a prime focus on aspects of task-based language learning, WebQuests, intercultural communicative competence and content, and language integrated learning.

### Course structure

1. A Changing Culture of Learning and Teaching
2. Media Didactics and Language Teaching
3. Learning through Digital Media
4. Creating Digital Media
5. Aspects of Presenting with Digital Media
6. TBLL and Digital Media
7. WebQuests and Digital Media
8. ICC and Digital Media
9. CLIL and Digital Media
10. Mobile Learning and Digital Media

Hours per week / Credits  
2 SWS / 3 ECTS

Exam  
Written examination

## Foundations of CLIL (Content and Language Integrated Learning)

Prof. Dr. Heiner Böttger  
Katholische Universität Eichstätt-Ingolstadt

### Abstract

The online seminar “Foundations of CLIL (Content and Language Integrated Learning)” is an English-language module for the subject-didactical training in the field of Anglistics / American studies. In addition, it is also appropriate for professional development for teachers. The course imparts basic competences in the field of didactics of bilingual subject instruction, known within expert discussions as the acronym CLIL. The training within the online seminar concerning the didactics of foreign language teaching is also a meta-didactical one: the various production- and competency-orientated as well as diverse task formats are at the same time exemplary for methods which are ideally used in CLIL teaching. This also applies to the exemplary test forms comprising open and closed tasks which merge into a comprehensible evaluation.

### Course structure

1. Introduction to CLIL
2. Language Acquisition Revisited
3. Towards Multilingualism
4. Literacy Learning in CLIL
5. Early CLIL
6. Lesson Planning – 4Cs framework
7. Lesson Planning – Scaffolding
8. Error Analysis and Feedback
9. Assessing CLIL
10. Developing CLIL Material
11. Test

Hours per week / Credits  
2 SWS / 4-5 ECTS

Exam  
Written examination

## Global Education

Focus on languages

Prof. Dr. Heiner Böttger

Katholische Universität Eichstätt-Ingolstadt

### Abstract

“Global Education” as a holistic concept provides pedagogic as well as didactical answers to questions on globalization, cultural diversity, and the development of the world’s society. The roles languages and language acquisition play in this context will be the main focus of the online seminar.

### Course structure

1. Global (Language) Skills
2. Media Education
3. Conflict Resolution
4. Sustainability Education
5. Workshop I
6. Workshop II
7. Global Citizenship or Human Rights & Responsibilities or Intercultural Education
8. Global Citizenship or Human Rights & Responsibilities or Intercultural Education
9. Workshop I
10. Workshop II

Hours per week / Credits

2 SWS / 4 ECTS

Exam

Project

## History of Mathematics

Prof. Dr. Jörn Steuding  
Julius-Maximilians-Universität Würzburg

### Abstract

The course deals with selected topics from the history of mathematics from its origins to the Enlightenment to the change to Modern Mathematics (e.g., the priority dispute between Leibniz and Newton about differential and integral calculus or Mathematics in the National Socialist period). By using network maps and in-depth essays, these aspects are discussed in other scientific and cultural contexts.

### Learning objectives

- Overview of the development of mathematics from its origins to modern times
- Getting to know specific aspects of the history of mathematics
- Scientific literature research
- Reading and autonomous writing of scientific texts in the English language

### Course structure

1. Introductory Words
2. Origins
3. Renaissance
4. The Priority Dispute between Leibniz and Newton
5. Enlightenment and Scientific Revolution
6. Progressive Actors in the Field of Algebra
7. Modern Mathematics
8. Mathematics in the National Socialist Period
9. Women in Mathematics
10. References

Hours per week / Credits  
2 SWS / 5 ECTS

Exam  
Seminar paper