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## **81010001A: SEMINAR "PEPTIDES AND PEPTIDASES"**

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<b>Course/Module Code</b>	81010001A
<b>Department</b>	Department of Bioengineering Sciences
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Prof. Dr. Schrader
<b>Recommended Prerequisites</b>	Students with knowledge of biochemistry, ideally also protein biochemistry, as well as liquid chromatography
<b>Assesment Method</b>	Presentation

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### **COURSE DESCRIPTION**

#### **Content:**

- Biochemistry, structure and function as well as applications of selected peptides, peptidases or inhibitors
  - Links of structures to physiological functions, diseases and related pharmaceutical applications
  - Physiologic protein digestion, regulation of degradation, food processing and peptide uptake
  - Peptide hormones, secretion, maturation and function, such as diabetes and insulin
  - Structure-function relations, e.g., initial binding of SARS-CoV-2 virus to ACE-2 peptidase
  - Animal toxins, antibiotic peptides and stabilising structure elements
  - Potential further topics, e.g., neuropeptides, ubiquinylation, HLA peptides, etc.
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## 910900280: INTERNATIONAL BEER STYLES

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<b>Course/Module Code</b>	910900280
<b>Department</b>	Department of Bioengineering Sciences
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Christopher McGreger
<b>Recommended Prerequisites</b>	For students with a background in Brewing and Beverage Technology
<b>Assesment Method</b>	Extra Credit (recommended): presentation in small groups (2 – 3 students) of a topic relevant to the class, preferably involving practical application of the surveyed brewing practices on a small scale

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

To develop an understanding of the following:

- the general origins of beer brewing and its connection to the domestication of cereals
- the great diversity of modern beer styles and where, why and how this diversity came to be
- regional differences and similarities among beer styles around the world
- details concerning the brewing methods of individual beer styles
- knowledge of flavor and aroma characteristics, in part gained through sensory analysis

#### Course Content:

A brief history of fermented foods with a focus on beer brewing from the last Ice Age to the present:

- the domestication of cereals and its probable link to brewing
  - beer and production methods of the first brewers in the ancient Near East
  - a general survey of the spread of ancient brewing methods throughout Western Eurasia and their dissemination throughout the world
  - a general survey of the changes that occurred in methodology, technology and ingredients
  - modern beer styles and brewing methods
  - where beer brewing is conducted in the world today, both of indigenous origin and using imported methods
  - the distinctive characteristics and methods in the production of modern beers
  - to accompany the course material, sensory analysis (tutored tastings) on a wide range of beer styles
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## 911900530: SUSTAINABILITY IN HORTICULTURE AND FOOD TECHNOLOGY

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<b>Course/Module Code</b>	911900530
<b>Department</b>	Department of Horticulture and Food Technology
<b>ECTS-Credits / Workload</b>	2,5 EC / 2 hours per week
<b>Lecturer</b>	Various Lecturers in the Department
<b>Recommended Prerequisites</b>	For students with a background in basics of environmental management
<b>Assesment Method</b>	Written Exam, 90 Min.

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

- develop a broad understanding of different aspects of sustainability in horticulture and food supply chains
- knowledge about environmental, social and economic dimension of sustainable development
- ability to develop sustainability strategies
- awareness for deficiencies in sustainability approaches and their implementation
- capability to deduce strategies for sustainable development

#### Course Content:

- Sustainability in production systems
  - Sustainability in supply chains of food and horticultural products
  - Product carbon footprint (PCF)
  - verification of sustainability by means of chemical and physical tools
  - Aspects of fair food
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## PROJECT WORK - FOOD TECHNOLOGY RESEARCH

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<b>Course/Module Code</b>	n.a.
<b>Department</b>	Department of Horticulture and Food Technology
<b>ECTS-Credits / Workload</b>	5-30 EC / up to 40 hours per week
<b>Lecturer</b>	Prof. Dr. Heike Mempel Prof. Dr. Özlem Özmutlu-Karslioglu
<b>Recommended Prerequisites</b>	For students with a background in Food Technology or similar field
<b>Assesment Method</b>	Research Paper

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### COURSE DESCRIPTION

The research project allows students to achieve between 5 to 30 EC by giving them the flexibility to decide themselves how many hours of project work they would like to contribute: one EC corresponds to 27 hours of project work on average per semester. A full-time participation (40 hours/week) for one semester will earn 30 EC.

If you are interested in attending other modules and/or language classes in addition to the project work, we advise students to sign up for less hours of project work. Research topics vary and interested students should inquire about current ongoing research projects before sending their application for a study exchange to HSWT. Together with the student, the supervising teachers and researchers will agree on the research topic and work amount for each student individually.

The project work encompasses e.g. preparation of a research plan, definition of the experimental design, survey of relevant literature, execution of practical tasks related to the research, analysis, presentation and reporting of results, etc.

Exchange students will be integrated into ongoing R&D activities at the ILM (Institute of Food Technology) where various topics in all areas of food research are investigated, from raw material production to processing and marketing. They will thus become temporary members of the research team while with us.

**If you are interested in participating, please send an e-mail to the departmental coordinator Prof. Dr. Eckhard Jakob ([eckhard.jakob@hswt.de](mailto:eckhard.jakob@hswt.de)), including information on your academic background, practical experience and motivation; you may include any particular topics of interest and we consider these as much as possible.**

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## PROJECT WORK - HORTICULTURAL RESEARCH

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<b>Course/Module Code</b>	n.a.
<b>Department</b>	Department of Horticulture and Food Technology
<b>ECTS-Credits / Workload</b>	5-30 EC / upto 40 hours per week
<b>Lecturer</b>	Prof. Dr. D. Kitemann; Prof. Dr. Elke Meinken; Prof. Dr. Heike Mempel
<b>Recommended Prerequisites</b>	For students with a background in Horticulture or similar field
<b>Assesment Method</b>	Research Paper

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### COURSE DESCRIPTION

The research project allows students to achieve between 5 to 30 EC by giving them the flexibility to decide themselves how many hours of project work they would like to contribute: one EC corresponds to 27 hours of project work on average per semester. A full-time participation (40 hours/week) for one semester will earn 30 EC.

If you are interested in attending other modules and/or language classes in addition to the project work, we advise students to sign up for less hours of project work. Research topics vary and interested students should inquire about current ongoing research projects before sending their application for a study exchange to HSWT. Together with the student, the supervising teachers and researchers will agree on the research topic and work amount for each student individually.

The project work encompasses e.g. preparation of a research plan, definition of the experimental design, survey of relevant literature, execution of practical tasks related to the research, analysis, presentation and reporting of results, etc.

Exchange students will be integrated into ongoing R&D activities at the IGB (Institute of Horticulture), in which various research topics in and along horticultural supply chains are investigated (mainly with third party funding). They will thus become temporary members of the research team while with us.

**If you are interested in participating, please send an e-mail to the departmental coordinator Prof. Dr. Stefan Krusche ([stefan.krusche@hswt.de](mailto:stefan.krusche@hswt.de)), including information on your academic background, practical experience and motivation; you may include any particular topics of interest and we consider these as much as possible.**

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## **910100460: ARCHITECTURE AND BUILDING THEORY (ELECTIVE MODULE)**

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<b>Course/Module Code</b>	910100460
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Jochen Witthinrich
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Semester Paper and Presentation

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### **COURSE DESCRIPTION**

The module will be offered bilingually (German/English) if required and will only take place if there are enough participants.

#### **Objectives of the Course/Learning Outcome:**

The aim of this course is to structure the broad field of architecture with its various building types, diverse construction forms and the various possibilities of floor plan organization in order to make this knowledge usable as a basic vocabulary for urban planning design.

The relevant architectural types, structural elements and their possible use and combination are introduced in analyses and exercises and their significant influence on the design process is tested in accompanying exercises/drafts. Project work with model building workshop. Work is carried out in small groups of 2-3 students. Interdisciplinary teams of students specializing in open space planning and urban planning are expressly encouraged.

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## 910200870: BIM - BUILDING INFORMATION MODELLING IN LANDSCAPE ARCHITECTURE (ELECTIVE MODULE)

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<b>Course/Module Code</b>	910200870
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	5 EC / 4 hours per week
<b>Lecturer</b>	Prof. Olaf Gerhard Schroth
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Semester Paper and Presentation

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### COURSE DESCRIPTION

The module will be offered bilingually (German/English) if required and will only take place if there are enough participants.

#### **Objectives of the Course/Learning Outcome:**

At the beginning of the module, the basics of Building Information Models (BIM) are explained:

- BIM process
- Client information requirements (AIA)
- BIM execution plan (BAP)

The following use cases in the BIM process are practiced using a case study in Ackermannbogen, Munich:

- Georeferencing of the project in Vectorworks
  - 3D terrain model (DTM) in Vectorworks
  - 3D model of the design in Vectorworks
  - Use of intelligent objects in Vectorworks
  - Introduction to scripting in CAD using the example of Marionette
  - Linking selected elements of the 3D model with IFC data
  - Exporting to the IFC format
  - Collision check
  - Visualization of the BIM model in TwinMotion
  - Linking with service specifications
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## 910700670: GLOBAL ECOSYSTEMS (ELECTIVE MODULE)

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<b>Course/Module Code</b>	910700670
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Dr. Annette Patzelt
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Semester Paper and Presentation

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### COURSE DESCRIPTION

The module will be offered in English if required and will only take place if there are enough participants.

#### Objectives of the Course/Learning Outcome:

This course provides an overview to global climatic zones with their corresponding vegetation, the plant diversity and plant use of terrestrial ecosystems. The zonal and azonal vegetation from the tropics to the polar regions including high mountains is described and discussed.

The reasons behind the distribution and functioning of terrestrial systems are recognized and characteristic life forms; plantfamilies and species are presented and discussed, as well as the landuse type and dynamic.

The focus is on the characterisation of interactions between the spatial location of plants and plant communities as well as site conditions, historic, geographical and ecological processes, spatialand temporal patterns, ecophysiology and anthropogenic influences. Specific topics are processes that determine the impact of climate change and changes in land use. Transformation processes, conservation strategies and the global flows of ecosystem services are presented and evaluated.

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## 912100240: URBAN HYDROLOGY (ELECTIVE MODULE)

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<b>Course/Module Code</b>	912100240
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Prof. Kristian Förster
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Semester Paper and Presentation

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### COURSE DESCRIPTION

The module will be offered in English if required and will only take place if there are enough participants.

#### Objectives of the Course/Learning Outcome:

This module provides specific knowledge of the urban hydrological cycle and its characteristics. Emphasis is put on process understanding and on urban storm water management including exercises and application of computer models. This approach enables students to understand the impact of urban areas on the water balance and how green infrastructure plays a crucial role in restoring the natural water balance of urban ecosystems.

Upon completion of the module, students are able to:

- Describe and analyze hydrological processes in urban areas including hydraulics.
  - Design different measures in urban storm water management (e.g., retention, infiltration, drainage).
  - Apply urban drainage models in order to study the impact of different measures (e.g. grey and green infrastructure) on drainage.
  - Identify challenges and opportunities of co-designing solutions that also acknowledge other targets (e.g., urban climate, climate change adaptation, waterway restoration) in the light of sustainability and livable cities.
1. Hydrological processes in urban areas:
    - Characteristics of the urban water balance and differences compared to natural environments
    - Approaches to compute runoff generation, runoff concentration, and channel runoff in urban areas
  2. Urban storm water management
    - "Grey" drainage systems
    - Green infrastructure
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3. Modelling, applications using computer models
    - Rainfall-runoff modelling of urban hydrological systems
    - Model-based hydrological design and feasibility studies for different measures
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## 911400310A: NATURA 2000

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<b>Course/Module Code</b>	911400310A
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Prof. Dr. Reinke
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Oral Exam

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### COURSE DESCRIPTION

The module will be offered bilingually (German/English) if required and will only take place if there are enough participants.

As FFH habitats, forests are of great importance for nature conservation. At the same time, they are exposed to climate change and, in the Spessart in particular, the valuable, very old forests in the dry region with lower water retention capacity of the soil are massively affected.

In the elective module, a close-to-nature forest in the Spessart is mapped in accordance with the FFH guideline for the forest (structure, vegetation and fauna) and a concept for the sustainable, close-to-nature development of the FFH habitat is developed.

The work is being carried out jointly by 15 students each from the LA and WF (Forestry) faculties and in close cooperation with the local foresters. The results will be presented to the public and the module will then be completed.

Supervision is provided in particular by Prof. Zahner and Prof. Reinke in the Spessart. In addition, other professors will be consulted for didactic questions etc.

The elective is built around a fee-based excursion, including overnight stays, to the Spessart region.

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## 912200300A: VIDEOGRAPHY

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<b>Course/Module Code</b>	912200300A
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	6 EC / 4 hours per week
<b>Lecturer</b>	Prof. Einberger (and Ms Eva Hartmann)
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Assignment with Presentation (Video Project)

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### COURSE DESCRIPTION

The module will be offered in English if required and will only take place if there are enough participants.

#### Concept:

- Video aesthetics
- Storyboard: setting / scene
- Recording techniques: from cell phones to action cams, professional video cameras to camera drones
- Video editing: Introduction and use of video editing software (Adobe Premiere / Premiere Elements)
- Image and sound
- Text and movie titles
- Editing techniques

#### Output:

- Generating video formats for various channels (web, social media, cinema)
  - Presentation of selected videos, if applicable, as part of the HSWT's Green Cinema
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## 912000250A: EXCURSION TO ANTALYA, TURKEY

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<b>Course/Module Code</b>	912000250A
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	6 EC / 4 hours per week
<b>Lecturer</b>	Prof. Dr. Latz
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	Assignment with Presentation

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### COURSE DESCRIPTION

The module will be offered bilingually (German/English) if required and will only take place if there are enough participants.

- 4-day studio work, with introductions to the topic and joint planning workshops in intercultural working groups. For two locations, ways of dealing with “over-tourism” (Belek) and sustainable tourism (Cirali) will be taught, the historical and current situation examined and development strategies and design methods worked on/developed.
- Bus excursions are planned on 2 days: Belek, Cirali and other professional and tourist hot spots under expert guidance - ancient sites (e.g. Perge, Aspendos, Termessos), modern promenades (e.g. Caretta, Konaalti, Kemer, ...), modern Antalya and the old town.
- Presentation of the working sketches to leading representatives of the local administration.
- Two free afternoons give you the opportunity to set your own priorities for the trip.

The elective is build around a fee-based excursion, including overnight stays, to Antalya, Turkey.

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## 356222010: MITIGATION AND ADAPTATION IN FORESTS AND AGRICULTURE

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<b>Course/Module Code</b>	356222010
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	5 EC / 4 hours per week
<b>Lecturer</b>	Prof. Dr. Bernhard Schauburger Prof. Dr. Stefan Wittkopf Prof. Dr. Christian Zang
<b>Recommended Prerequisites</b>	For students in related fields (5th semester or higher in Bachelor or in Master programmes)
<b>Assesment Method</b>	Written Exam (90 Minutes)

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### COURSE DESCRIPTION

This module is part of the English-taught master programme "Climate Change Management".

### MODULE CONTENT

Before the background of climate change impacts on forests and agriculture, this module focuses on strategies for adapting forests and agricultural systems to climate change conditions and for optimizing their mitigation potential. Regarding adaptation, important management options are discussed, including tree species selection, and stand management (forestry), as well as selection of crop species, cultivation measures or water status improvements (agriculture). Mitigation is discussed within the frameworks of climate-smart forestry and climate-smart agriculture, focusing on the potential of soils to sequester carbon. The module is designed as a combination of lectures, excursions and practical case studies.

### LEARNING OUTCOMES AND COMPETENCES

By the end of the module

- students will understand that the management of agricultural and forestry systems needs to be adapted to take account of climate change
  - students will be aware of the significance of location and management to the potential for carbon sequestration and nutrient/water use efficiency as well as the resilience of forest, agroforestry and agricultural systems
  - students will have knowledge of suitable methods and techniques for securing agricultural and forestry production even in changing environmental conditions
  - students will be able to calculate greenhouse gas emissions and sinks in agricultural and forestry systems, including special usage concepts within bioeconomics and bioenergy
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- students possess the necessary theoretical foundations to design scientifically valid land use concepts for a specific region, taking into account impacts of climate change and optimising the potential for sequestering carbon
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## **356222030: LANDSCAPE & LANDUSE PLANNING, GOVERNANCE, LAW & ECONOMICS**

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<b>Course/Module Code</b>	356222030
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	5 EC / 4 hours per week
<b>Lecturer</b>	Prof. Dr. Tanja Barton Prof. Dr. Cristina Lenz
<b>Recommended Prerequisites</b>	Basic knowledge of land usages like agriculture, forestry and nature protection
<b>Assesment Method</b>	As an assessed assignment, students have to submit a seminar paper. The topic of the paper can be chosen from a list of subjects provided by the lecturers of the module. The choice needs to be verified by the respective lecturer.

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### **COURSE DESCRIPTION**

This module is part of the English-taught master programme "Climate Change Management".

### **MODULE CONTENT**

National governments have different tools and approaches at their disposal for bringing down greenhouse gas emissions and/or influencing the scope of these emissions. This module aims to provide an overview of these tools and approaches, highlight practical examples of their use by specific countries, and reflect on the national understanding that is associated with this. Countries can use strict rules (laws, ordinances, decrees) and associated sanctions (punishments) to effect desired behaviour within their society. With regard to climate matters, this has been done e.g. through the ban of coolants containing CFCs. However, such bans normally require there to be an alternative option that can be used instead. Also, when evaluating the underlying premises, it must be considered whether such bans or strict requirements are enforceable within the society. At the international level, the effectiveness and applicability of such strict legal requirements are limited. A different governance approach involves the adoption of fiscal policies that, for instance, tax emissions of climate-damaging greenhouse gases or subsidise energy-saving technologies. Examples of this include the trade in CO<sub>2</sub> certificates, subsidies for renewable energy, and so on. This module will discuss the governance approaches that are available for managing climate change at the national level, with regulatory, fiscal or persuasive tools (such as awards), and analyse their prospects of success. In addition to these governance principles, which can be used anywhere regardless of the land type present, national governments also have options for influencing climate change through the control of land usage systems. The protection of CO<sub>2</sub> sinks in the landscape (ancient woodland, moorland), control of usage intensity and usage models e.g. in

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agriculture (livestock farming systems etc.) are also used as examples in this module. The three types of government action (legal, fiscal and persuasive tools) are also applied here within sustainable land usage management. Using practical examples from an international context, this module aims to illustrate how these governance concepts have a limiting or amplifying effect on climate change when used to influence decisions on how space is used and how land is managed.

The module has two different parts:

1st: Landscape & Landuse Planning - 356222030A

2nd: Governance and Legal Framework - 356222030B

### **LEARNING OUTCOMES AND COMPETENCES**

- Gaining knowledge about landscape and landuse planning approaches for climate changemanagement
  - Ability to apply the planning tools as input to the “Project 2”
  - Gaining knowledge about international laws for governance of climate change
  - Ability to compare economic drivers for climate change adaptation and mitigation
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## MODULES - MASTER OF LANDSCAPE ARCHITECTURE (IMLA)

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<b>Course/Module Code</b>	n.a.
<b>Department</b>	Department of Landscape Architecture
<b>ECTS-Credits / Workload</b>	2,5-10 EC / 2-8 hours per week
<b>Lecturer</b>	tba
<b>Recommended Prerequisites</b>	For students with a background in Landscape Architecture
<b>Assesment Method</b>	tba

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### COURSE DESCRIPTION

The 1st semester courses (summer semester) only take place in Freising every two years. Accordingly, the courses of the 2nd semester also only take place in Freising every two years. This means that the IMLA course will take place in Freising in the current summer semester and the second semester courses in the following winter semester (winter semester 2024/25). The next start of IMLA-courses in Freising will be in 2026 and 2028 and so on.

#### Landscape Basics

The aim of this module in semester 1 is to provide students with adequate knowledge and to understand the basic elements which are shaping the landscape. Information about the quality of nature as well as managed and designed environment is conveyed. Topics are: landscape ecology, soil, water, vegetation, planting design. The knowledge can then be applied in projects and other modules.

#### Planning and Project Management

Planning and Project Management 1 (sem. 1)  
Planning and Project Management 2 (sem. 2)

Students learn how to plan and execute projects successfully through collaborative thinking, team work and suitable development and practice of methods. Significant emphasis is placed on self-evaluation and the students' reflection on their own position in the team. Furthermore, students learn how to conceptualize organizational procedures and communicate appropriately within teams.

#### Information Technologies in Planning and Design

Information Technologies in Planning and Design 1 (sem. 1)  
Information Technologies in Planning and Design 2 (sem. 2)

Students learn how to solve landscape planning and landscape architecture exercises with digital tools. These are then applied to analyze facets of the respective project in the same semester. Issues regarding data transfer and workflow between programs are addressed, too. Content of semester 1 is GIS (Geographical Information Systems) while semester 2

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comprises DTM (Digital Terrain Models), Visualization and an IT seminar with regard to Geodesign.

### **Planning and Design Methods**

Planning and Design Methods 1 (sem. 1)

Planning and Design Methods 2 (sem. 2)

In semester 1 planning and design methods are taught and compared, including a reflection on systems analysis and problem-oriented basics. An additional landscape and democracy seminar focusses on participatory approaches to planning and design.

Contents of semester 2 are Landscape Architecture Research, Evaluation and Assessment. Students learn the basics of models and strategies of concept development and analysis. Creative perspectives on planning and design will be demonstrated with concrete examples. Students design, implement and document a self-directed research.

### **International Planning and Design**

Planning Systems (sem. 2)

International Approach to Planning and Design (sem. 2)

Students learn how to manage international and cross-border planning and organization. They are exposed to present and prospective work environments and concepts of landscape architecture in other countries. A particular focus is on European law, which influences building practice.

### **Planning and Design Studios**

Main Project I (sem. 1)

Main Project II (sem. 2)

Projects at various scales and in differing contexts which are closely entwined with the above-mentioned modules and build upon the theoretical content taught there.

### **Further information can be found via these links:**

<https://www.imla-campus.eu/>

<https://www.imla-campus.eu/overview>

### **Programme Presentation:**

<https://www.imla-campus.eu/fileadmin/imla/download/230506-IMLA-Info-GreenFutureDay.pdf>

### **Module Handbook:**

[https://www.imla-campus.eu/fileadmin/imla/download/20210118\\_IMLA\\_course-handbook.pdf](https://www.imla-campus.eu/fileadmin/imla/download/20210118_IMLA_course-handbook.pdf)

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## 234224310: INTERNATIONAL MARKETING PROJECT

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<b>Course/Module Code</b>	234224310
<b>Department</b>	Department of of Sustainable Agriculture and Energy Systems
<b>ECTS-Credits / Workload</b>	5 EC / 4 hours per week
<b>Lecturer</b>	Prof. Dr. Markus Beinert
<b>Recommended Prerequisites</b>	-
<b>Assesment Method</b>	Written Exam (90 Min.) and Project Work

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

Students know the different forms of project organization and know the respective advantages and disadvantages. They know the specifics of leadership in project organizations and can characterize the various requirements for project managers. They can apply various methods of project selection and project portfolio management. For the management of a project they can explain the methods of target definition, team composition, risk analysis, cost and budget estimation, time planning, resource management and project controlling and apply them in different situations.

In a specific project assignment, they work on a practical problem and transfer this problem into a project plan with the aim of developing a marketing and sales concept. In the project, the students prepare a marketing and sales plan and develop recommendations for the implementation of appropriate marketing instruments. They evaluate and check these problem solutions based on information they have obtained themselves in the form of market research.

#### Synopsis of Course Content

1. Scope and challenge of international marketing
  2. Strategic issues in international marketing
  3. Specific issues of the international product mix
  4. Specific issues of the international distribution mix
  5. Specific issues of the international pricing mix
  6. Specific issues of the international communication mix
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## 234226310: INTERNATIONAL CHALLENGES OF RENEWABLE ENERGY

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<b>Course/Module Code</b>	234226310
<b>Department</b>	Department of Sustainable Agriculture and Energy Systems
<b>ECTS-Credits / Workload</b>	5 EC / 4 hours per week
<b>Lecturer</b>	Dr. Sebastian Baum
<b>Recommended Prerequisites</b>	For students in relevant fields; basic knowledge regarding environmental issues associated to climate change
<b>Assesment Method</b>	Written Exam, 90 Minutes

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### COURSE DESCRIPTION

Renewable energy sources will be one of the greatest issues facing our society in the future. The movement of wind and water, the heat and light of the sun, the carbohydrates in plants and the warmth in the earth are energy sources that can supply our needs in a sustainable way. Renewable energy has the potential to slow down global warming, to reduce pollution, to create new industries and jobs and move us towards a cleaner, healthier and sustainable energy future, where meeting our energy needs will not mean to exploit our earth and threaten the resources of future generations any longer.

#### Objectives of the Course/ Learning Outcomes:

In this module the students will investigate the benefits and challenges of a variety of methods, that are used to convert renewable energy resources into electricity and thermal energy. The importance of renewable energy sources in the context of sustainability will be discussed individually and within a group of students, taking into account global challenges connected to the five dimensions of sustainability.

The module is designed in a very interactive manner and encourages strong participation of the students to foster rhetoric, discussion, presentation and foreign language skills. After detailed introductions and presentations of the different topics, students will be asked to elaborate issues and present the results in a self-organized manner (group work), for example by conducting country case studies, panel discussions with different actors (role plays) preparation of short presentations on issues of special interest.

Students completing the course will acquire the following competences:

- understanding of the importance of biodiversity and conservation of nature for the future of mankind on earth
  - knowledge of the importance of sustainability for our future and the role of renewable energy sources in this concept
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- knowledge about energy consumption and energy resources in different countries and regions of the world
- knowledge of environmental, ecological, social, cultural impact of renewable energy technologies
- knowledge of current approaches for energy efficiency inspired by nature (biomimicry and bionics)

In addition students will also:

- train their language skills by strengthening the ability to explain fundamental technological principles of renewable energy sources in English
  - learn about the most relevant scientific journals, research institutions and source of information in the field of renewable energy sources
  - learn how to summarize essential information and to present it in written and oral form- write short reports on specific topics
  - train general skills like rhetoric, discussion and presentation skills and the capacity for team work
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## 910100210: ADVANCED PRICING METHODS

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<b>Course/Module Code</b>	910100210
<b>Department</b>	Department of Sustainable Agriculture and Energy Systems
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Prof. Dr. Markus Beinert
<b>Recommended Prerequisites</b>	For students with a background in basics of marketing
<b>Assesment Method</b>	Written Exam (60 Min.)

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### COURSE DESCRIPTION

Price management is one of the most important revenue levers in a company. Knowledge of relevant / new methods for correct pricing and price management in a company are therefore of crucial importance.

#### **Objectives of the Course/Learning Outcome:**

The students know the economic fundamentals of optimal pricing (marginal analytical optimization) and can apply them successfully. They know the important psychological principles of pricing and can apply the corresponding implications for pricing. The students know different methods of price setting and are proficient in their application. They know the central challenges of strategic pricing, can develop solutions to relevant strategic problems in a context-related manner and apply modern analysis tools and solution methods

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## **911900770: SUSTAINABLE RURAL DEVELOPMENT IN DEVELOPING AND INDUSTRIALIZED COUNTRIES**

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<b>Course/Module Code</b>	911900770
<b>Department</b>	Department of Sustainable Agriculture and Energy Systems
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Prof. Dr. Sabine Daude
<b>Recommended Prerequisites</b>	For students with interest in the challenges of the development of rural areas in a sustainable way
<b>Assesment Method</b>	tba

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### **COURSE DESCRIPTION**

#### **Objectives of the Course/Learning Outcome:**

- Knowledge of different concepts of sustainability and rural development economics
  - Knowledge of actors in the process of rural development
  - Knowledge of projects of rural development in developing and industrialized countries
  - Ability to analyze and discuss problems of rural development and possible solutions
  - Ability to analyze and discuss similarities and differences of rural development in developing and industrialized countries
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## **355231050: INTERNATIONAL CLIMATE AND ENERGY POLICY (MASTER LEVEL)**

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<b>Course/Module Code</b>	355231050
<b>Department</b>	Department of Forestry
<b>ECTS-Credits / Workload</b>	5 EC / 4 hours per week
<b>Lecturer</b>	Prof. Dr. Anne Kress Prof. Dr. Tanja Barton
<b>Recommended Prerequisites</b>	The number of participants is limited; attendance in class is mandatory
<b>Assesment Method</b>	Project Work

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### **COURSE DESCRIPTION**

This module is part of the Master degree programme Business Management and Renewable Energy Entrepreneurship.

#### **Objectives of the Course/Learning Outcome:**

- Students will obtain a comprehensive overview of current international climate and energy policies and understand the underlying strategies and the legal background.
  - Using national examples, students can illustrate the relationship between national climate policy and the respective energy policy and energy law.
  - The students are familiar with the various European subsidy models of renewable energies and their legal frames and can identify the main advantages and disadvantages.
  - The students will analyse the measures of the climate and energy policy of a specific country and make suggestions for improvement, including measures for developing the legal setting.
  - The acquired expertise in the field of current climate and energy policy will enable them to develop strategies required due to the consequences of climate change in the energy sector and to work out measures for the political and legal levels.
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## 912000080: TECHNICAL ENGLISH FOR AGRICULTURISTS II

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<b>Course/Module Code</b>	912000080
<b>Department</b>	Language Centre
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Elizabeth Hamzi-Schmidt
<b>Target group</b>	For students in Agriculture and related fields
<b>Assesment Method</b>	tba

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

- To expand knowledge of subject-related vocabulary and to use this in context (e.g. describing farm processes)
- To enhance reading skills on subject-related topics (e.g. European Agricultural Policy, genetically modified crops, animal/crop, diseases, etc.)
- To further develop language skills such as paragraphing and summarizing information acquired from reading articles on agricultural topics
- To improve English communicative competence (both written and spoken) by offering opportunities for discussion and short written tasks (e.g. report on farm work experience, useful subject-related web-site, e.g. [www.agriculture.com](http://www.agriculture.com))
- To increase confidence in understanding the spoken word in short video-clips (e.g. BBC Jimmy's Farm/ podcast reports about various aspects of farming life)

#### Course Contents:

- subject-related vocabulary and its use in context (e.g. describing farm processes)
  - training of reading skills on subject-related topics (e.g. European Agricultural Policy, genetically modified crops, animal/crop diseases, etc.)
  - development of language skills such as paragraphing and summarizing information acquired from reading articles on agricultural topics
  - exercises to improve English communicative competence (both written and spoken) by offering opportunities for discussion and short written tasks (e.g. report on farm work experience, useful subject-related web-site, e.g. [www.agriculture.com](http://www.agriculture.com))
  - training to increase confidence in understanding the spoken word in short video-clips (e.g. BBC Jimmy's Farm/podcast reports about various aspects of farming life)
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## 982000010: TECHNICAL ENGLISH FOR BREWING AND BEVERAGE TECHNOLOGISTS

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<b>Course/Module Code</b>	982000010
<b>Department</b>	Language Centre
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Christopher McGreger
<b>Target group</b>	Students within Brewing and Beverage Technology
<b>Assesment Method</b>	tba

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

This course, which is held on level B2 of the Common European Framework of References for Languages (CEFR), has the following objectives or learning outcomes:

- To increase knowledge of subject-related vocabulary
  - To improve reading skills on subject-related topics
  - To develop language skills such as summarizing information acquired from reading articles
  - To improve English communicative competence (both written and spoken) by offering opportunities for discussion and written tasks
  - To practice listening to and watching authentic talks / lectures held in English
  - To develop learning strategies, which enhance the students' own independent learning skills.
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## 982000020: TECHNICAL ENGLISH FOR FOOD TECHNOLOGISTS

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<b>Course/Module Code</b>	982000020
<b>Department</b>	Language Centre
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Kristina Breith
<b>Target group</b>	Students in the field of Food Technology English and with English knowledge on level B2
<b>Assesment Method</b>	Written Exam (90 Min.), Presentation, Oral Mark

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

This course, which is held on „level B2 of the Common European Framework of References for Languages (CEFR)“, has the following objectives or learning outcomes:

- To increase knowledge of subject-related vocabulary (e.g. functional food, GMOs, food laboratory).
- To improve reading skills on subject-related topics (e.g. taste perception, sustainable farming)
- To develop language skills such as summarizing information acquired from reading articles on food science topics
- To improve English communicative competence (both written and spoken) by offering opportunities for discussion and presentation (on such topics as Slow Food) and written tasks (for example, opinion essay, describing processes or answering email messages)
- To practice listening to and watching authentic talks / lectures held in English (e.g. describing food processing principles / discussing genetic engineering)
- To enhance the knowledge of terms and phrases required in business life (welcoming visitors, answering the telephone, handling complaints)

#### Course Contents:

- Food processing basics, Slow Food, food categories, food laboratory, food safety, functional food, water, packaging, food allergies, trends in the food industry, GMOs, organic farming, confectionery (topics may vary due to updating)
  - Business language for welcoming visitors, presentations, telephoning and handling complaints.
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## 982000050: TECHNICAL ENGLISH FOR LANDSCAPE ARCHITECTS

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<b>Course/Module Code</b>	982000050
<b>Department</b>	Language Centre
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Walter Strauß
<b>Target group</b>	Students of Landscape Architecture
<b>Assesment Method</b>	tba

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

This course, which is held on \*level B2 of the Common European Framework of References for Languages (CEFR)\*, has the following objectives or learning outcomes:

- Increase knowledge of subject-related vocabulary and to use this in context (e.g. describing different types of processes in landscape architecture and construction)
  - To improve general language skills, also free speech and communication
  - To improve reading skills (e.g. journal articles) on subject-related topics
  - To improve English communicative competence (both written and spoken) by offering opportunities for discussion and short written tasks
  - To practise listening to authentic talks/lectures given in English (e.g. describing processes/activities in landscape sciences)
  - To improve and repeat particular aspects of grammar
  - To develop the learning strategies which enhance the students' own independent learning skills
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## 982000080: TECHNICAL ENGLISH FOR RENEWABLE ENERGIES

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<b>Course/Module Code</b>	982000080
<b>Department</b>	Language Centre
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	Anthony Perkins, Nicole v. Jüchen
<b>Target group</b>	Students in the field of Renewable Energy
<b>Assesment Method</b>	tba

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### COURSE DESCRIPTION

#### Objectives of the Course/Learning Outcome:

This course, which is held on “level B2 of the Common European Framework of References for Languages CEFR)”, has the following objectives or learning outcomes:

- To increase knowledge of subject-related vocabulary (i.e. energy in general, infrastructure, different kinds of technology used, using figures in English)
- To improve reading skills on subject-related topics (i.e. newspaper articles on political issues, excerpts from the Global Wind Report, excerpts from a blog on biogas/biomass, a scientific article on CSP)
- To develop language skills such as summarizing and mediating information acquired from reading articles on renewable energies topics
- To improve English communicative competence (both written and spoken) by offering opportunities for discussion (an up-to-date political decision concerning renewable energies) and written tasks (for example opinion essay, describing a process related to the generation of biofuels; describing graphs and trends)
- To practice listening to and watching authentic talks / lectures held in English (i.e. different projects/ technologies in renewable energies worldwide)
- To develop learning strategies, which enhance the students’ own independent learning skills.

#### Course Contents:

Introduction to the Energy Sector; Germany’s energy mix and describing graphs; an up-to-date political issue from RES, i.e. Germany’s emissions or Trump’s climate policy; wind energy: onshore / repowering; offshore; biomass, innovative biofuels; solar energy; wave/tidal energy; sustainability; describing course contents in English and working in the energy sector.

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## GERMAN AND FOREIGN LANGUAGE CLASSES, VARIOUS LEVELS

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<b>Course/Module Code</b>	tba
<b>Department</b>	Language Centre
<b>ECTS-Credits / Workload</b>	3 EC / 2 hours per week
<b>Lecturer</b>	tba
<b>Target group:</b>	For students of all departments
<b>Assesment Method</b>	Exam

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### COURSE DESCRIPTION

#### **German as a Foreign Language (DaF - Deutsch als Fremdsprache)**

- German classes are offered at various levels (a minimum number of participants is required for courses to take place)
- Beginners courses and courses on levels A1/A2/B1 are also available online through Bavarian Virtual University

#### **Other foreign language classes are offered at various levels:**

To join courses, students will have to complete an assessment test (not applicable for beginners courses)

The following language courses/levels are available:

#### **UNICert Courses:**

- English (up to C1)
- Spanish (up to B2)
- French (up to B2)
- Italian (up to A2)
- Russian (up to A2)

#### **General Language Courses:**

- Chinese (up to A2)
- Dutch (up to A2)

**Please note:** Language classes can only take place if there is a sufficient number of interested students.

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