WEIHENSTEPHAN · TRIESDORF
University of Applied Sciences

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LANGUAGE CLASSES

	Foreign Language Classes, Various Levels	2 SWS / 3 EC
982000010	Technical English For Brewing And Beverage Technologists	2 SWS / 3 EC
982000030	Technical English For Forest Engineers	2 SWS / 3 EC
982000040	Technical English For Horticulturists	2 SWS / 3 EC

811600190: PROCESS PLANT ENGINEERING (MASTER LEVEL)

Course/Module Code	811600190
Department	Department of Bioengineering Sciences
ECTS-Credits / Workload	6 EC / 4 hours per week
Lecturer	Prof. Dr. Marcus Millitzer
Recommended Prerequisites	Knowledge of unit operations, biotechnology, measurement and control technology, process automation
Assesment Method	Written Exam

COURSE DESCRIPTION

Learning Outcome:

When you have completed this course, you should:

- know the various steps throughout engineering and construction of a plant
- know and be able to apply the tools used throughout engineering and construction of a plant
- be familiar with the contractual and legal issues throughout engineering and construction of a plant
- have a good knowledge of the basic principles of quality assurance throughout engineering and instruction of a plant
- have gained further experience in team work:
- execution of an engineering project by a project team; presentation and discussion of the outcomes of an engineering project with experts from industry

Content:

- Introduction
- Feasibility Study
- Process Development
- Conceptual Design
- Basic Design
- Detail Design
- Project Execution
- Construction
- Commissioning
- Contracts
- Validation and Qualification

Literature:
Hand book and exercises for course „Process Engineering“

English Textbooks:

- Elvers, B., Hawkins, S. Schulz, G., Ullmann`s Encyclopedia of Industrial Chemistry, Volume B4: Principles of Chemical Reaction Engineering and Plant Design, 5. edition, VCH Verlagsgesellschaft, Weinheim, 1992.
- Green, D. W., Perry, R. H., Perry`s Chemical Engineers´ Handbook, 8. edition, McGraw-Hill Book Company, New York, 2008.
- Backhurst, J. R., Harker, J. H., Process Plant Design, Heinemann Educational Books Ltd., London, 1973.

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911300370: AGRICULTURAL MACHINERY COSTS CALCULATION - MOOC (MASSIVE OPEN ONLINE COURSE)

Course/Module Code	911300370
Department	Department of Agriculture, Food and Nutrition (Triesdorf)
ECTS-Credits / Workload	3 or 5 EC / 2 or 4 hours per week
Lecturer	Prof. Ralf Schlauderer
Recommended Prerequisites	Basic knowledge in the field of agricultural sciences is required.
Assesment Method	If participating in the final examination (presence at HSWT or at a partner university required) participants receive a certificate

COURSE DESCRIPTION

MOOC (Massive Open Online Course) as further education of the International Master's program in Agricultural Management.

Objectives of the Course:
The goal of the course is to provide the theoretical basis for decision-making in production and the subsequent illustration on specific practical examples. In this case, the course deals primarily with the issue of purchasing long-term means of production such as tractors. In the process, the question is addressed whether the long-term means of production should preferably be purchased or leased. With the example of such questions, the theoretical basics of economic decisions are illustrated and discussed. Subsequently the developed theoretical principles are applied to specific practical examples. The results are discussed and evaluated from the perspective of decision-makers. Additionally, the course is utilizing Moodle. For each module, there is time for questions and discussions in a virtual chat room scheduled, to which all users have access to.

Learning Outcome:
- To accurately define costs, to explain cost categories and to apply the terms to examples of agriculture
- To define and apply machinery costs, procedural costs and comparative costs
- To calculate and appropriately interpret the total costs per year and costs per unit of output such as tractors hours or hectares
- To calculate the Minimum Extent of Utilization for machinery, equipment and typical agricultural means of production and to appropriately evaluate the results.

By submitting additional coursework and holding a final presentation, students may acquire up to 5 EC in total for this module.

Contact person for registration and questions: Dr. Aristakesyan (aram.aristakesyan@hswt.de)

AGRARIAN PRODUCTION ECONOMICS - MOOC (MASSIVE OPEN ONLINE COURSE)

Course/Module Code	n.a.
Department	Department of Agriculture, Food and Nutrition (Triesdorf)
ECTS-Credits / Workload	2,5 or 4 EC / 2 or 4 hours per week
Lecturer	Prof. Ralf Schlauderer
Recommended Prerequisites	A basic knowledge in the field of agricultural sciences is required
Assesment Method	If participating in the final examination (presence at HSWT or at partner university required) participants receive a certificate

COURSE DESCRIPTION

MOOC (Massive Open Online Course) as further education of the International Master's program in Agricultural Management.

Objectives of the Course:

- to foster modern lecturing and teaching in universities
- to make university knowledge online available for all interested groups of our societies

Course Content:
The goal of the course is to provide the theoretical basis for decision-making in agricultural production and the subsequent illustration on specific practical examples for crop production. In this case, the course deals primarily with the issue of short- and long-term costs calculation means of crop production such as winter wheat. In the process, the question is addressed whether the crop production short- and long-term is profitable or not. With the example of such questions, the theoretical basics of economic decisions are illustrated and discussed. Subsequently the developed theoretical principles are applied to specific practical examples. The results are discussed and evaluated from the perspective of decision-makers. Additionally, the course is utilizing Moodle. For each module, there is time for questions and discussions in a virtual chat room scheduled, to which all users have access to.

By submitting additional coursework and holding a final presentation, students may acquire up to 5 EC in total for this module.

Contact person for registration and questions: Dr. Aristakesyan (aram.aristakesyan@hswt.de)

FULL COST & GROSS MARGIN CALCULATION CROP (WHEAT) PRODUCTION – MOOC (MASSIVE OPEN ONLINE COURSE)

Course/Module Code	-
Department	Department of Agriculture, Food and Nutrition (Triesdorf)
ECTS-Credits / Workload	2,5 EC / 6 hours per week
Lecturer	Prof. Dr. Ralf Schlauderer
Recommended Prerequisites	In order to successfully participate in the course, a basic knowledge in the field of agricultural sciences (all disciplines) is required.
Assesment Method	Exam

COURSE DESCRIPTION

MOOC (Massive Open Online Course) as further education of the International Master's program in Agricultural Management.

Objectives:

- to foster modern lecturing and teaching in universities
- to make university knowledge online available for all interested groups of our societies

The goal of the course is to provide the theoretical basis for decision-making in agricultural production and the subsequent illustration on specific practical examples for crop production. In this case, the course deals primarily with the issue of short- and long-term costs calculation means of crop production such as winter wheat. In the process, the question is addressed whether is the crop production short- and long-term profitable or not. With the example of such questions, the theoretical basics of economic decisions are illustrated and discussed. Subsequently the developed theoretical principles are applied to specific practical examples. The results are discussed and evaluated from the perspective of decision-makers. Additionally, the course is utilizing Moodle. For each module, there is time for questions and discussions in a virtual chat room scheduled, to which all users have access to.

What will I learn in this course?

- To accurately define output and costs, to explain cost categories (proportional variable special costs and fixed costs) and to apply the terms to typical examples of agriculture (crop production)
- To define and apply proportional variable special costs and fixed costs, procedural costs and comparative costs

- To calculate and appropriately interpret the prduction output (main output and spin-off output) variable, fixed and total costs as well as profit and netprofit per year and per unit of output
- To calculate the efficiency of factor input, threshold prices, comparable appraisal of efficiency measures of crop production and to appropriately evaluate the resultsand interpret the profitability of intensity change
- Sample of complete profitability calculation for winter wheat is available

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PROJECT WORK - FOOD TECHNOLOGY RESEARCH

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

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), 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

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

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), 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.

PLANNING AND DESIGN & ADVANCED PLANNING AND DESIGN

Course/Module Code	2512XXXX0 (see below)
Department	Department of Landscape Architecture
ECTS-Credits / Workload	10 EC / 7 hours per week
Lecturer	Different Lecturers
Recommended Prerequisites	For students of Landscape Architecture
Assesment Method	Project Work and Presentation

COURSE DESCRIPTION

If you are interested in one of the study projects, please contact the International Office as soon as possible.

The course "Planning and Design" consists of 2 parts and is offered as a 3rd- and 4th-semester project respectively, each time with a different focus:

3rd Semester	251203030 / 251223030	Planning & Design in Landscape Planning
4th Semester	251204030 / 251224030	Planning & Design in Urban Planning

Students choose the specialisation of their degree programme in the sixth semester. They can choose between open space planning, landscape planning and urban planning. Depending on their specialisation, students choose the following courses as part of the "Advanced Planning and Design" module:

Landscape Planning	6th Semester	251206210 / 251226210
	7th Semester	251207210 / 251227210
Open Space Planning	6th Semester	251206110 / 251226110
	7th Semester	251207110 / 251227110
Urban Planning	6th Semester	251206310
	7th Semester	251207310

If required, English-speaking project groups can be formed for the modules "Planning and Design" and "Advanced Planning and Design". However, lectures and materials are given in German.

Open Space Planning
The task of open space planning is to plan and design open spaces such as green spaces and parks, squares, streets, cemeteries, gardens, courtyards, sports facilities, playgrounds, but also gardens and allotment sites with sustainability in mind. They take into account aspects of social participation, ecology and economic importance in the planning process.

The most important contents are:

- Planning & design methods for the development of sustainable open spaces
- Implementing sustainability in open spaces in a technically sound & data-based manner
- Development of new climate adaptation strategies in open spaces
- Conveying planning & design content through convincing graphic & verbal communication
- Holistic, cross-section-orientated understanding of planning

Open space planners are responsible for high-quality planning and design of open spaces in the sense of an identity-creating building culture. They ensure sustainable development and make an important contribution to creating liveable cities and communities for people, animals and plants.

Landscape Planning
Species extinction and dealing with climate change are huge social challenges. Who takes care of these issues when planning and managing land in the open countryside and in urban areas? Landscape planning!

The most important issues are:

- Planning and implementing fair compensation for interventions in nature
- Designing nature conservation concepts
- Developing concepts for sustainable land use
- Develop adaptation strategies for climate change

Landscape planning is based on specific projects and development strategies. It is closely linked to all protagonists of land use such as agriculture, forestry, water management and human settlements. Landscape planners represent the interests of nature and resource conservation at all spatial levels and at all levels of administration. They therefore lend a powerful voice to a sustainable future.

Urban Planning
Urban planning is an interdisciplinary practice that deals theoretically, conceptually and practically with the planning of the city and the built environment. Our aim is to promote sustainable and green urban development that takes into account climate change, social needs and the preservation of natural resources. This includes, in particular, urban design, which encompasses these areas:

- the structural & aesthetic design of urban space
- the planning of transport infrastructure
- the development of residential & commercial areas
- the location of public facilities

Due to a restructuring of the study program at HSWT, the field of "Urban Planning" is being phased out. Students interested in urban planning can now find themselves in the program "Green Urban Planning."

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910500610: ECONOMIC BOTANY: GLOBAL PLANT RESOURCE UTILISATION (ELECTIVE MODULE)

Course/Module Code	910500610
Department	Department of Landscape Architecture
ECTS-Credits / Workload	3 EC / 2 hours per week
Lecturer	Dr. Annette Patzelt
Recommended Prerequisites	For students with a background in Landscape Architecture
Assesment Method	Semester Paper and Presentation

COURSE DESCRIPTION

Subject-Related Competencies

- This module promotes the understanding of core concepts of plants used by humans and relates economically useful plants with environment, cultures, climate, and ecosystems
- Students understand the history and involvement of humans with plants
- Students are able to identify the major plant species that play an important role in human life and demonstrate good knowledge of major plant products and plant product processing techniques used around the world
- Students deal with the economic value of plants and plant products
- Students gain knowledge about the taxonomic diversity of important families of useful plants
- Students understand the challenges of plant product processes, global food production and sustainable use of plants in the present as well as in the future

Methodical Skills

- Students map and recognise geographical, historical and cultural contributions of economically important plants
- Students develop critical understanding on the evolution of concept of origin of crops, evolution of new crops/varieties and importance of germ plasma diversity
- Students deepen their tools for working together in teams and for presenting results
- Students research plant use-relevant data and international sources
- Students learn to structure and plan a presentation; they will try out suitable communication forms and creative techniques for presenting a topic on economically used plants

Interdisciplinary Competencies

This module promotes an understanding of the interrelationships among different fields of inquiry within botany and other subjects by stressing the connections of economic botany to global vegetation, climate, history and societies. Students combine their prior knowledge from agriculture, horticulture, plant nursery techniques and plantations with the new know-how on economic plants in a meaningful way

Social and Personal Skills

- Students train and expand their social skills in dealing with people with many different background
- Students communicate, discuss and present relevant topics in English
- Students understand how different societies and global vegetation zones each have developed their own principles in using plants
- This module increases the awareness and appreciation of plants and plant products encountered in everyday life
- Students organise their project work, make decisions and take over responsibility for their project; they decide on timing, management and presentation of their project work

Contents of this Module

General topics cover universal and familiar uses of plants as a source of food, fuel, building materials, and industrial raw materials. The course also covers more specialised uses such as medicinal plants, volatile oils, herbs, spices and psychoactive plants.The topic of creating a sustainable future with scope of challenges and menue of possible solutions is emphasied. Economic and political aspects are included throughout the content. Specific topics include the origins of agriculture and the impact of cultivated plants on societies. Themes such as the reduction of the diversity of wild populations of economically useful plants, and controlling the commercial production in increasingly globalised markets are incorporated. The course also considers practical and ethical issues such as bio-piracy, bioprospecting, and the increasing privatisation of patenting of basic food plants. Climate change aspects and environmentally sensitive management options for useful plants are discussed.

This course is for students in the 6th semester or higher.

It should be noted that non-native English speakers are especially encouraged to enrol in this module. It is no prerequisite to be fluent in English and no special technical terms are used.

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911200370: LANDSCAPE TRANSFORMATIONS: PLACE, OBJECT, DETAIL (ELECTIVE MODULE)

Course/Module Code	911200400
Department	Department of Landscape Architecture
ECTS-Credits / Workload	6 EC / 4 hours per week
Lecturer	Prof. Tilman Latz
Recommended Prerequisites	For students with a background in Landscape Architecture
Assesment Method	Semester Paper and Presentation

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:
A complex design task, wth visonary approaches in relation to current challenges in landscape architecture and in an urban context, is worked on in three steps:

1. Students critically examine set topics, develop and discuss their own positions and possible fields of action. Keynote speeches are intended to stimulate discussions. Forms of work are initially group presentations and discussions, conceptual sketches and active participation in joint work/supervisions appointments.

2. Depending on the topic, a site visit takes place and the contet-related discussion is continued. Content and work cycle are developed together. The work step should be concluded with the presentation of a convincing conceptual desing or plannuing approach in plenary.

3. The participants concentrate on the graphic and content related specification of their concept and its graphic implementation.

911900910: DESIGNING URBAN PATTERNS (ELECTIVE MODULE)

Course/Module Code	911900910
Department	Department of Landscape Architecture
ECTS-Credits / Workload	6 EC / 4 hours per week
Lecturer	Prof. Christoph Jensen
Recommended Prerequisites	For students with a background in Landscape Architecture
Assesment Method	Semester Paper and Presentation

COURSE DESCRIPTION

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

Competence Objectives:

Subject-Related Skills:

- Students learn how to develop strategies and apply innovative urban building blocks in design
- In this course, they gain increased knowledge of housing layout and their characteristics
- As well as increased knowledge of open space design, especially in the residential environment
- The module also covers the theoretical foundations of special settlement typologies in innovative, ecological urban redevelopment as well as communicative, intergenerational living and working situations

Methodological Skills:
- Students learn the theory and methodology of design
- They practice designing in urban planning detail

Interdisciplinary Skills:
- For urban or open space design, this module provides good training

Social and Personal Skills:
- Project work is carried out as group work. This enables students to train their teamwork skills

Contents of the Module:
- Innovative urban redevelopment strategies against the background of energetic and social change – exemplified by urban building blocks
- Open space as an identification and orientation element

- Conversion, re-densification, up to demolition
- Metamorphose of different settlement typologies (“Gründerzeit”, 20’s, 50’s, 60’s, and 70’s, etc. /planning models) – approach differentiated according to small, medium-sized and large cities
  a. differentiated by location in the urban are: city center / outskirts etc.
  b. differentiated according to growing, stagnating and shrinking cities

A design project is being carried out that deals with urban development and open spaces in dense urban structures. The demands on space- and energy-saving settlement structures, which ensure both cross-generational housing and living models and guarantee mixed functions, pose a particular challenge for the layout and formulation. Different urban development structures are being examined and developed.

INTERNATIONAL SEMINAR: LANGUAGE, CULTURE, LANDSCAPE (IMLA)

Course/Module Code	n.a.
Department	Department of Landscape Architecture
ECTS-Credits / Workload	5 EC / 2 hours per week
Lecturer	Dr. Ellen Fetzer
Recommended Prerequisites	For students with a background in Landscape Architecture
Assesment Method	Presentation

COURSE DESCRIPTION

This course also is part of the IMLA program. It takes place as an online course.

Course Introduction
How we describe our landscapes and all things connected to them is not something that exists in an isolated or objective place – it's embedded in our identity and culture.
A deep understanding of the different concepts and perceptions of landscape from one country to another is an essential professional asset that will only become more important in the increasingly borderless future of our global profession. Even exploring one word – landscape – can reveal a complex web of meanings and cultural, physical, geographic and political connotations:

Course Content and Objectives
The course is designed to help you:

- Build a nuanced awareness of and sensitivity to the differences in understanding of landscape across cultures
- Develop a deeper understanding and objective awareness of the concept of landscape in your own country and how it differs from others
- Create tools for more effective communication in landscape planning and design in the international context

We will explore the intersection of language, culture and landscape using visual tools and essays. This includes using concept maps, which are graphical tools for organizing and representing knowledge. They consist of concepts, usually enclosed in circles or boxes of some type, and relationships between concepts indicated by a connecting line. Concepts are represented in a hierarchical fashion with the most general concepts at the top of the map and the more specific, less general concepts arranged below in order of importance. Cross-links are relationships between concepts that help us see how a concept in one domain on the map is related to another. See the resources section for more information on how to build a concept map.

Assignments and Schedule - Important Information:
The course consists of a single introductory meeting (online) and three presentation meetings (online). There won't be lectures or a final exam. The session length may be extended if there are a lot of students enrolled. Participation in presenting your work is part of your grade.

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

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MODULES - MASTER OF LANDSCAPE ARCHITECTURE (IMLA)

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

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 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

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356201010: CLIMATE CHANGE

Course/Module Code	356201010
Department	Department of Landscape Architecture
ECTS-Credits / Workload	5 EC / 4 hours per week
Lecturer	Prof. Dr. Matthias Drösler
Recommended Prerequisites	No conditions for participation
Assesment Method	Written Exam

COURSE DESCRIPTION

This module is part of the Master's Programm Climate Change Management.

Competency Objectives of the Module:

- Ability to understand climate change processes and drivers
- Knowledge about key findings and dynamics of climate change: observation
- Ability to differentiate between global and regional climate change dynamics and effects: scaling
- Knowledge about databases and models of climate change: scenarios and prognostics
- Ability to differentiate between trends and extremes
- Ability to critically read and assess original literature about climate change

Contents of the Module:

The contents are oriented on the IPCC-structure of the climate reports with

1. physical basis
2. mitigation
3. adaptation.

Major sources of information are the IPCC-assessment reports with the underlying peer-reviewed papers. Special emphasis is given to the global picture and the regional representation of climate change as well as to the identification of mitigation and adaptation options.

356201020: DIGITAL TOOLS

Course/Module Code	356201020
Department	Department of Landscape Architecture
ECTS-Credits / Workload	5 EC / 4 hours per week
Lecturer	Prof. Dr. Olaf Schroth
Recommended Prerequisites	The module is aimed at beginners and has no pre-requirements
Assesment Method	Written Exam

COURSE DESCRIPTION

This module is part of the Master's Programm Climate Change Management.

Competency Objectives of the Module:

- Knowledge of geographic data processing and remote sensing
- Knowledge about the capacity and functionality of GIS
- The ability to carry out fundamental GIS management and analysis functions
- GIS-based visualisation

Assessment of Learning Outcome:
The module has one student assignment at the end. For this assignment, students have to submit a poster with geodata-based maps and remote sensing imagery related to a climate change-related topic.

Contents of the Module:

The "Digital Tools" module is providing an introduction to geodata, Geographic Information Systems (GIS) and remote sensing. Students will gather knowledge about geodata and remote sensing data and how to analyse these data with various tools, in particular QGIS and R. In GIS, students also learn how to collect, manage and present data.

Requirements for Participation:

The module is aimed at beginners and has no pre-requirements. This module imparts specialist knowledge for the module "Project 1". It is recommended to complete both modules in the same semester.

234223050: RENEWABLE ENERGY BUSINESS ENGLISH & PRESENTATION SKILLS

Course/Module Code	234223050
Department	Department of Sustainable Agriculture and Energy Systems
ECTS-Credits / Workload	4 EC / 3 hours per week
Lecturer	Prof. Dr. Tanja Barton Christian Jager Dr. Simone van Riesen
Recommended Prerequisites	Students with English Level B
Assesment Method	Written and Oral Exam

COURSE DESCRIPTION

RE Buisness Communication
At the end of this class, the students shall be able to...

1. Professional Job Application in the RE Sector
   The students shall be able to apply in a professional way in companies of the Renewable Energy Sector (motivation letter to a RE company including professional CV, preparation of a RE job interview including topical RE issues to comment on), job interview training)

2. Oral and written Communication in RE Companies
   The students are familiar with the most important ways of Communication in RE Companies (oral and written communication), i.e. professional emailing and phone calls, standard letters, conference calls etc.
   The students apply RE technical terms in business communication effectively (i.e. technical terms of the different RE markets, technical and standard terms of wind/solar/biomass/geothermal and water energy power plants etc.).

3. Intercultural Competence in RE Business Communication
   The students are aware of different cultural backgrounds in professional business. They are familiar with the most important intercultural business rules for relevant RE markets worldwide (e.g. USA, China, India, South America etc.).
   The class is hold in English by a German lecturer with professional background in international legal business. English is the language in class in order to get students prepared for working in international RE companies in Germany or abroad.

Presentation Skills
The aim of this course is for students to get to know what makes a presentation really effective. It therefore covers major aspects from preparation to delivery in front of small audiences. In order to get this accomplished, the delivery is through an interactive seminar,

but the majority of time is devoted to practical exercises and self-preparation (homework and in class). The course is given in English language by a non- native speaking lecturer with a professional background in international business. English therefore is also the language in class, intended to mimic authentic mixed business environments, aiming to help students getting prepared for such events in their later jobs.

The course includes the following elements, but is not limited to:

1. The role of presentations in business and related environments (interactive seminar)

- Typical situations when you will be asked to give a presentation
- Understand the opportunities connected when presenting
- Get to know what is meant by the term "effective presentation"

2. Selected principles in verbal communications (interactive seminar)

- What is meant by "communication"?
- Understand challenges when communicating and how to handle them

3. Preparation of a presentation (interactive seminar, exercises)

- Learn to develop and structure your presentation whilst addressing your target audiences and accomplis- hing your objectives
- Get to know on how to select the media supporting your presentation and learn how to use them effectively in practice
- Acquaint yourself for a "free speech" - even in ad-hoc situations

4. The delivery of a presentation in practice (interactive seminar, group/individual exercises)

   - The personality of the presenter; learn how to present yourself and your company
   - Get to know the power of verbal and non-verbal communication
   - Learn how to interact with audiences, before/during and after your presentation
   - "Pulling it all together" for making the presentation as "effective" as possible
   - Learn how to manage unwanted situations before/during and after presenting

5. Follow-up activities after presentation (interactive seminar)

- Study the importance of the need for follow-up activities, right after the presentation and in the longer run
- What tolls are available and how can you use them?

6. Practical presentation in front of an audience in the class room (homework & exercises)

Students are requested to prepare a presentation of around 5 min. and to give it to the audience in the class room, mimicking a real life business situation of their choice. Each presentation is followed by thorough feedback and coaching from the group and the lecturer.

234127310 (MEE): INTERCULTURAL COMMUNICATION / INTERNATIONAL ENERGY LAW

Course/Module Code	234127310
Department	Department of Sustainable Agriculture and Energy Systems
ECTS-Credits / Workload	5 EC / 4 hours per week
Lecturer	Prof. Dr. Tanja Barton
Recommended Prerequisites	tba
Assesment Method	Written Exams

COURSE DESCRIPTION

Objectives of the Course/Learning Outcome:

Intercultural Communication:

The students…
- are aware of the division of different business areas on the global market (e.g. Europe, USA, South-America, Asia)
- know the most important differences of business habits and behavior on the different markets
- practice different "real life situations" in which they need different types of soft skills vis-à-vis their foreign business partners in order to communicate successfully
- are training intercultural communication with different global business partners from Europe, the USA, South-America and Asia

International Energy Law:

The students…
- are aware of the three different levels of law (hierarchy of law) as there are the international, European and national level
- know the legal basis for international and European legal acts (Art. 288 Treaty of the Functioning of the European Union)
- can explain why international and European regulations are strictly binding for the UN and European member states
- are able to cite the legal scheme of laws and regulations relating to renewable energies on the international level (e.g. pre- and post-Kyoto process)
- are able to name the main EU Regulations and Directives relating to energy law as well as their transformation into national laws, especially German law

910900080: INTERNATIONAL MARKETING

Course/Module Code	910900080
Department	Department of Sustainable Agriculture and Energy Systems
ECTS-Credits / Workload	3 EC / 2 hours per week
Lecturer	Prof. Dr. Markus Beinert Malte Anselm Beyer
Recommended Prerequisites	For students with basics in Marketing
Assesment Method	Written Examination, 60 Min., in German or English

COURSE DESCRIPTION

Objectives of the Course/Learning Outcome:

This course will develop practical competences for expansion into international markets and coordination of the activities:

- Basics of international marketing strategies
- Specifics of the marketing mix in international business
- Case studies and practical examples

355232050 (MEE): ENTREPRENEURIAL MARKETING (MASTER LEVEL)

Course/Module Code	355232050
Department	Department of Forestry
ECTS-Credits / Workload	5 EC / 4 hours per week
Lecturer	Prof. Dr. Markus Beinert
Recommended Prerequisites	For students with a background in basics of marketing
Assesment Method	Written Exam

COURSE DESCRIPTION

Objectives of the Course/Learning Outcome:

By the end of the course, the students will be able to

– apply the entrepreneurial approach of marketing (Entrepreneurial Marketing) in various forms in practice
– apply methods for identifying market opportunities in practice
– apply methods of ideation at the Fuzzy front end of innovation
– assess, compare and integrate business models in the field of renewable energy and their various revenue structures
– apply qualitative and quantitative statistical methods of market structuring / segmentation and the generation of customer / market knowledge
– use mathematical methods to reliably estimate potentials
– mathematically develop business cases and assess the influence of different market parameters in complex simulations (e.g. different take-rates / usage levels in different target segments, initial purchase / repurchase, etc.)
– position innovative product and service concepts vis-à-vis the stakeholders, and develop and implement suitable concepts for products, pricing, distribution and communication
– utilize the methods of brand management and controlling
– apply concepts to build and maintain relationship networks, alliances and cooperative business relationships with key partners

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355232060 (MEE): ENGLISH FOR SPECIFIC PURPOSES (MASTER LEVEL)

Course/Module Code	355232060
Department	Department of Forestry
ECTS-Credits / Workload	5 EC / 4 hours per week
Lecturer	Walter Strauss / Beverley Kubiak
Recommended Prerequisites	B2 English proficiency
Assesment Method	Written and Oral Exam

COURSE DESCRIPTION

Learning Outcome:

After completing the module, students are able to understand and apply written and spoken English of high complexity in study and university-relevant situations as well as in professional contexts at level C1 of the European Framework of Reference

Objectives of the Course:

Written Communication
- The ability to understand relevant written types of text in the foreign language (incl. their rules and the linguistic means) and independently apply/create such texts with a wide range linguistic means.
- Development of learning strategies that serve the independent further development of the language skills of the students.

Job-Oriented Communication
- The ability to understand the foreign language in written and spoken form in professional communication situations and to use it functionally and competently using a wide range of linguistic means
- Development of learning strategies that serve the independent further development of the language skills of the students.

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353221010: ECONOMIC PLANNING AND MANAGEMENT IN FOREST INDUSTRIES (MASTER LEVEL)

Course/Module Code	353221010
Department	Department of Forestry
ECTS-Credits / Workload	5 EC / 4 hours per week
Lecturer	Andrea Stübner
Recommended Prerequisites	B2 English Proficiency (computer based language test required); basic knowledge of business administration
Assesement Method	Semester Paper

COURSE DESCRIPTION

This module is part of the Master degree programme International Management of Forest Industries.

Objectives of the Course/Learning Outcome:

At the end of the module the student will be able to:

- Analyze business environment in the forest and wood industry
- Elaborate and interpret economic planning
- Apply different strategic analyses
- Carry out business management using the different management methods
- Use of quantitative methods of economics

Module Content:

- Strategic planning processes
- Environmental analysis
- Company analysis
- Strategic planning options
- Introduction to management theory
- Management systems
- Management systems for forest and wood industries

FOREIGN LANGUAGE CLASSES, VARIOUS LEVELS

Course/Module Code	n.a.
Department	Language Centre
ECTS-Credits / Workload	3 EC / 2 hours per week
Lecturer	tba
Recommended Prerequisites	tba
Assesment Method	Exam

COURSE DESCRIPTION

The following language courses/levels are available:

English

982000060A / 922000010A / 810200070B	Train your English - Basic (B1 GeR) / Basic English - Kurs 1
982000070A / 922000020A / 810200070C	Train your English - Intermediate / Basic English - Kurs 2*
980500020A / 922100280A	Englisch UNIcert® II Mittelstufe 1 (B2.1 GeR)
980500030A / 922100290A	Englisch UNIcert® II Mittelstufe 2 (B2.2 GeR)
980500040A / 922100300A	Englisch UNIcert® II Mittelstufe 3 (B2.3 GeR)
980500050A / 922100310A	Englisch UNIcert® II Mittelstufe 4 (B2.4 GeR)
982100010A / 922100660A	UNIcert® II - Practical English for the Workplace (B2 GeR)
980500080A / 922100060A	Englisch UNIcert® III Interkulturelle Kommunikation (C1 GeR)
980500070A / 922100540A	Englisch UNIcert® III Fachsprachl. Kompetenz (C1 GeR)
980500060A / 922100050A	Englisch UNIcert® III -Berufsorientierte Sprachkompetenz (C1 GeR)
980200010A / 920200010A	Business English Compact (B2 GeR)
982000010A	Technical English for Brewing & Beverage Technologists (B2 GeR)
982000020A	Technical English for Food Technologists (B2 GeR)
982000030A	Technical English for Forest Engineers (B2 GeR)

982000050A	Technical English for Landscape Architects (B2 GeR)
982000080	Technical English for Renewable Energies (B2 GeR)
981600040A	Practicing English in Agribusiness (B1 GeR)

French

980600010A / 922100380A / 880600010A*	Französisch UNIcert® Basis - Kurs 1 (A1.1 GeR)/ Modul Basis A1 - Kurs 1
980600020A / 922100390A / 880600010B*	Französisch UNIcert® Basis - Kurs 2 (A1.2 GeR)/ Modul Basis A1 - Kurs 2
980600030A / 922100400A / 880600020A*	Französisch UNIcert® Basis - Kurs 3 (A2.1 GeR)/ Modul Basis A2 - Kurs 1
980600050A / 922100420A / 880600030A	Französisch UNIcert® I - Aufbaustufe 1 (B1.1 GeR)/ Modul UNIcert I - Kurs 1*
980600080A / 922100350A	Französisch UNIcert® - Mittelstufe 2 (B2.2 GeR)

Intercultural Communication

910900380A	Interkulturelle Kommunikation (Language: German)

Italian

980900010A / 922100600A / 881090010A	Italienisch UNIcert® Basis - Kurs 1 (A1.1 GeR)/ Modul Basis A1 - Kurs 1
980900020A / 922100610A / 881090010B	Italienisch UNIcert® Basis - Kurs 2 (A1.2 GeR) / Modul Basis A1 - Kurs 2
980900030A / 922100620A / 881090020A	Italienisch UNIcert® Basis - Kurs 3 (A2.1 GeR)/ Modul Basis A1 - Kurs 1
980900030A / 922100620A / 881090020B	Italienisch UNIcert® Basis - Kurs 4 (A2.2 GeR)/ Modul Basis A1 - Kurs 2

Dutch

981400010A/ 921400030A	Niederländisch - Basis 1 (A1.1 GeR)

Russian

981800010A / 922100550A / 881800060A	Russisch UNIcert® Basis- Kurs 1 (A1.1 GeR)/ Modul Basis A1 - Kurs 1
981800020A / 922100560A / 881800060B	Russisch UNIcert® Basis- Kurs 2 (A1.2 GeR)/ Modul Basis A1 - Kurs 2

Spanish

981900010A / 922100480A / 881190010A	Spanisch UNIcert® Basis - Kurs 1 (A1.1 GeR)/ Modul Basis A1 - Kurs 1
981900020A / 922100490A / 881190010B*	Spanisch UNIcert® Basis - Kurs 2 (A1.2 GeR)/ Modul Basis A1 - Kurs 2
981900030A / 922100500A / 881190020A*	Spanisch UNIcert® Basis - Kurs 3 (A2.1 GeR)/ Modul Basis A2 - Kurs 1
981900040A / 922100510A / 881190020B	Spanisch UNIcert® Basis - Kurs 4 (A2.2 GeR)/ Modul Basis A2 - Kurs 2
981900050 / 922100520 / 881190040	Spanisch UNIcert® I - Aufbaustufe 1 (B1.1 GeR)
981900060A / 922100530A / 881190040	Spanisch UNIcert® I - Aufbaustufe 2 (B1.2 GeR)

Chinese

980300030A / 920300040A	Chinese for Beginners (A2.1 GeR)

Please note:
To join courses, students will have to complete an assessment test (not applicable for beginners' courses). Language classes can only take place if there is a sufficient number of interested students.

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982000010: TECHNICAL ENGLISH FOR BREWING AND BEVERAGE TECHNOLOGISTS

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

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.

982000030: TECHNICAL ENGLISH FOR FOREST ENGINEERS

Course/Module Code	982000030
Department	Language Centre
ECTS-Credits / Workload	3 EC / 2 hours per week
Lecturer	Stephanie Koch-Grimm
Target group	Students with English knowledge on level B2
Assesment Method	tba

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. tree anatomy and physiology, describing different types of harvesting methods, forestry processes)
- To improve reading skills on subject-related topics (e.g. biodiversity, wildlife habitat relationships)
- To develop language skills such as summarizing information acquired from reading articles on forestry topics.
- To improve English communicative competence (both written and spoken) by offering opportunities for discussion (on such topics as forest recreation) and written tasks (for example, opinion essay, describing a forestry process)
- To practice listening to and watching authentic talks / lectures held in English (e.g. describing processes / activities in the forest)
- To develop learning strategies, which enhance the students' own independent learning skills

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982000040: TECHNICAL ENGLISH FOR HORTICULTURISTS

Course/Module Code	982000040
Department	Language Centre
ECTS-Credits / Workload	3 EC / 2 hours per week
Lecturer	Natalia Romano Brandt
Target Group	Students with English knowledge on level B2
Assesment Method	Written Exam, 90 Min., Presentation of a Scientific Paper

COURSE DESCRIPTION

Objectives of the Course/Learning Outcome:

- Develop a broad understanding of technical terminology in horticulture
- Ability to analyse difficult scientific texts
- Ability to make a presentation in English
-

Course Content:

- Edible Plants grown from seed
- Soils and growing media
- Plant nutrition
- Plant propagation – generative
- Plant propagation – vegetative and xenovegative
- Aspects of plant physiology
- Aspects of plant pathology – diseases
- Aspects of plant pathology – pests
- Aspects of plant pathology – abiotic
- Intellectual property rights
- Communication in business
- Cultural techniques in horticulture