Allgemeine Angaben *(general information)*	
Name der Lehrveranstaltung *(name of the course)*	International modular short-term programme **Campus Alps**
Lehrperson(en) *(teacher)*	Detailed in specific project description. Students select one seminar from each of the two academic tracks 1 or 2. Each selected seminar is worth 4 ECTS. Successful completion of two seminars results in 8 ECTS.
Sprache [1] *(language)*	English at least B2 level
SWS *(hours per week)*	6 SWS, 8 ECTS Each of the two seminars is awarded 4 ECTS in a hybrid form: Online individual and/or cooperative preparation, block format on campus including 4 to 5 compulsory block days within 2.5 weeks; individual and/or cooperative follow up online
Zeitaufwand: *(time required)* - Lehrveranstaltung LVS [2] *(contact hours)* - Selbststudium *(private study)*	**Total** Contact hours 80h (2 x 40h) Private study 110h (2x55h) Online hours 10 h (2x5h) Total 200 h (2x100h). Generally, 100 hours are required in each seminar. Slight changes may occur in the individual seminars. Detailed in specific appendix.
Angebotsturnus [3] *(frequency)*	Offered in the winter or summer semester.
Max. Teilnehmende [4] *(max. participants)*	Detailed in specific project description
Beschreibung der Lehrveranstaltung *(description of the course)*	
Lernziele [5] *(learning objectives)*	Upon completing this module, students will be able to… • apply subject-specific knowledge and methods acquired in their selected seminars; • collaborate effectively in international and interdisciplinary teams; • analyse challenges from different cultural and disciplinary perspectives; • develop and present solutions to practical and/or academic challenges; • reflect on their own intercultural learning experiences; • demonstrate increased awareness of regional, social and cultural contexts in the Allgäu region; • engage respectfully with diverse perspectives and demonstrate openness to dialogue, participation and democratic values.

[1] Englisch

[2] bei wöchentlich: 12 Termin à 2 LVS (24 LVS) – bei Blockveranstaltungen: LVS nach Rücksprache

[3] jedes Semester oder nur Sommer- bzw. Wintersemester

[4] Mindestteilnehmendenzahl: 10– Maximale Teilnehmendenzahl: 40

[5] Bitte darauf eingehen „Was können die Studierenden am Ende?“ bzw. „Welche Kompetenzen haben die Studierenden am Ende der Veranstaltung erworben?“.

Lehrinhalte *(teaching content)*	This module focuses on the development of linguistic, intercultural, and personal skills in an international learning environment. Participants enhance their abilities in academic and professional communication in a foreign language and reflect on its application in different cultural contexts. Key topics include intercultural collaboration, teamwork in international groups, self-reflection, and the development of personal and social skills. Through interactive teaching formats such as workshops, group projects, presentations, and practical tasks, real professional situations are simulated. Moreover, the importance of multilingualism, cultural sensitivity, and personal development for future career paths is addressed. The course supports participants in recognizing, developing, and purposefully applying their individual strengths for their academic and professional future. The specific content of the module is updated and adapted every semester. The basis for this includes exchange programs, for example in the form of summer/winter schools with (partner) universities, which vary both in content and location. The basic format of the module always consists of the components: • Preparation • Implementation (in Kempten – with international students) • Reflection
Literaturempfehlungen [6] *(reading list)*	Described in specific seminar outlines.
Prüfungsmodalitäten *(Assessment arrangements)*	
Art der Prüfung [7] *(type of examination)*	Portfolio Assessment methods vary according to the selected seminar and are specified in the respective seminar outlines. Depending on the seminar, assessment may include portfolio work, written assignments, presentations or other appropriate forms of assessment. The total grade of the module will be calculated based on the ECTS of the two tracks.
Zeitpunkt der Prüfung [8] *(Examination period)*	Detailed in specific project description
Zugelassene Hilfsmittel *(approved aids)*	Detailed specification in the individual seminar outlines.

[6] Drei bis vier Literaturempfehlungen erwünscht – werden projektspezifisch ergänzt

[7] schriftlicher Leistungsnachweise (Prüfung: 60 Minuten) / Seminararbeit (5 bis 10 Seiten) mit Präsentation

[8] schriftliche Prüfungen immer am Ende des Semesters / sonstige Leistungsnachweise während des Moduls

Appendix „Campus Alps 2027“
Beschreibung der AW-Module

Allgemeine Angaben *(general information)*	
Name der Lehrveranstaltung *(name of the course)*	**1A Business Management Simulation**
Lehrperson(en) *(teacher)*	Prof. Dr. Göbl
Sprache [9] *(language)*	English
SWS *(hours per week)*	3 SWS / 4 ECTS
Zeitaufwand: *(time required)* - Lehrveranstaltung LVS [10] *(contact hours)* - Selbststudium *(private study)*	Contact hours 40 h Private study 52 h Online hours 08 h Total 100 h
Angebotsturnus [11] *(frequency)*	Annual basis, currently in summer / winter semester
Max. Teilnehmende [12] *(max. participants)*	Maximum 32 participants
Beschreibung der Lehrveranstaltung *(description of the course)*	
Lernziele [13] *(learning objectives)*	On completion of this module, the students should be able to: **Knowledge and understanding:** - Understand the rules for business management and get to know the relationships and conflicts between the interests of the various departments within a company - Repeat the content of all seminars during the study and the specific business vocabulary within the financial reports **Use and application of knowledge:** - create and analyse the three main financial accounting statements – the balance sheet, profit and loss account and cash flow statement - implement a business strategy and control its implementation by adopting good and sustainable performance management - use cost and financial information in order to analyse the performance of a business - plan and control the activities of a business **Personal development, ethical behaviour and professionalism:** - Ability to present company data (financial figures, strategy, competitive advantages) - Evaluate financial statements from an ethical perspective
Lehrinhalte *(teaching content)*	The goal of the course is to provide students an introductory understanding of the meaning and uses of information generated by internal cost accounting as well as external financial reporting. Students will gain a deeper knowledge of the importance of implementing a clear strategic management approach. This course

[9] Englisch

[10] bei wöchentlich: 12 Termin à 2 LVS (24 LVS) – bei Blockveranstaltungen: LVS nach Rücksprache

[11] jedes Semester oder nur Sommer- bzw. Wintersemester

[12] Mindestteilnehmendenzahl: 10– Maximale Teilnehmendenzahl: 40

[13] Bitte darauf eingehen „Was können die Studierenden am Ende?“ bzw. „Welche Kompetenzen haben die Studierenden am Ende der Veranstaltung erworben?“.

	is intended to enable participants to make use of cost and financial information in order to analyse the performance of a business and to comment on how this might be improved, and to plan and control the activities of a business. Students take over the responsibility for a company and have to make it succeed in a competitive and dynamic environment. Therefore, they have to make all decisions in all basic areas of Business Administration such as HR, Marketing, R&D, Production, Sales, Purchasing, Inventory management, Finance and Accounting. As key aspects the following subjects will be addressed: - strategic management - a company as a cross-linked system - financial reporting - management accounting and financial controlling
Literaturempfehlungen [14] *(reading list)*	**Compulsory reading:** - Collier: Accounting for Managers, newest Ed. - Participants Manual, TATA Interactive Systems GmbH, General Management, V15.1 - Provided simulation manuals **Recommended additional literature:** - Black: Introduction to Accounting and Finance - Bhimani / Horngren / Datar / Foster: Management and Cost Accounting - Horngren / Datar / Foster / Rajan / Ittner: Cost Accounting - Krause / Arora: Key Performance Indicators - Mc Laney / Atrill: Accounting and Finance
Prüfungsmodalitäten *(Assessment arrangements)*	
Art der Prüfung [15] *(type of examination)*	Portfolio exam consisting of: - Introduction Test - Business plan - Agreement on objectives - Shareholder Meeting - Performance in Simulation - Additional tasks
Zeitpunkt der Prüfung [16] *(Examination period)*	During and at the end of the seminar
Zugelassene Hilfsmittel *(approved aids)*	None, except participants manual

[14] Drei bis vier Literaturempfehlungen erwünscht – werden projektspezifisch ergänzt

[15] schriftlicher Leistungsnachweise (Prüfung: 60 Minuten) / Seminararbeit (5 bis 10 Seiten) mit Präsentation

[16] schriftliche Prüfungen immer am Ende des Semesters / sonstige Leistungsnachweise während des Moduls

Formular für AW-Module (Umfang der Modulbeschreibung: ca. 1 Seite)

Allgemeine Angaben *(general information)*	
name of the course	**1B Design Thinking for Sustainable Innovation (Alpine Impact Lab)**
teacher	Prof. Dr. Gabriele Schäfer
language	English
hours per week	3 SWS / 4 ECTS
time required	Contact hours 40 h (4 block days with 10 teaching units each) Private study 52 h Online hours 08 h Total 100 h
frequency	Annual basis, in the winter semester
max. participants	Maximum 32 participants in eight interdisciplinary teams of four
Beschreibung der Lehrveranstaltung *(description of the course)*	
learning objectives	On completion of this module, the students should be able to: **Knowledge and understanding:** ● explain the phases of the design thinking process and the lean startup concepts of hypothesis, minimum viable product and validated learning ● distinguish the methods of user research (persona, empathy map, user journey) from those of idea generation (Crazy 8s, brainwriting) **Use and application of knowledge:** ● frame a problem from interviews and field observations and derive requirements for a solution ● represent a solution as a prototype, from a hand drawing to a click dummy, and revise it after testing it with users ● formulate a business model canvas, test its central hypotheses with real users and pitch the concept to a jury **Personal development, ethical behaviour and professionalism:** ● organise the work in an interdisciplinary, international team of four and revise the concept after feedback ● justify design decisions against sustainability criteria and the SDGs
teaching content	The seminar combines design thinking with lean startup and applies both methods to innovation challenges of alpine and rural regions. It is open to students of all disciplines: neither technical prior knowledge nor programming skills are required, because all methods are introduced from scratch and the teams are mixed by subject and country. Each team works on one of four challenge tracks or, after agreement with the lecturer, on a topic of its own: Track A – Alpine Energy (energy autonomy, decentralised systems, storage), Track B – Smart Rural Infrastructure (digitalisation of rural areas, IoT for pasture and forestry, telemedicine), Track C – Circular Mountain Economy (regional value chains, timber construction, residual materials), Track D – Climate Resilience (hazard monitoring, early warning, water management). A prototype here is any representation that makes an idea testable with users: a hand drawing, a paper model, a storyboard, a service description or a click dummy. Nothing has to be built or programmed, provided that users can react to the idea. The four block days follow the innovation process: problem framing on day one, idea generation and business model canvas on day two, prototyping and testing with users on day three, iteration and elaboration of the concept on day four. The pitch is presented on the joint final day of the programme; the written final report is submitted after the programme by a deadline announced separately.

reading list	**Compulsory reading:** ● Lewrick / Link / Leifer: The Design Thinking Toolbox, newest ed. ● Ries: The Lean Startup, newest ed. ● Course material on the Elearning platform **Recommended additional literature:** ● Brown: Change by Design; Osterwalder/Pigneur: Business Model Generation
Prüfungsmodalitäten *(Assessment arrangements)*	
type of examination	Portfolio exam consisting of: ● Pitch presentation (30 %) ● Written documentation of the innovation process (40 %) ● Prototype and its documentation (20 %) ● Active participation and team work (10 %)
Examination period	During and at the end of the seminar
approved aids	Drawing and prototyping material provided; all sources permitted if cited

Allgemeine Angaben *(general information)*	
Name der Lehrveranstaltung *(name of the course)*	**2A Climate Change and Sustainability**
Lehrperson(en) *(teacher)*	Prof. Dr. Thomas Eimüller
Sprache [17] *(language)*	English
SWS *(hours per week)*	3 SWS / 4 ECTS
Zeitaufwand: *(time required)* - Lehrveranstaltung LVS [18] *(contact hours)* - Selbststudium *(private study)*	Contact hours: 32 h Private study: 60 h Online hours: 8 h Total: 100 h
Angebotsturnus [19] *(frequency)*	Annual, in the winter semester
Max. Teilnehmende [20] *(max. participants)*	Maximum 32 participants
Beschreibung der Lehrveranstaltung *(description of the course)*	
Lernziele [21] *(learning objectives)*	Upon completing this module, students will be able to… ***1) Knowledge and understanding:*** … know the scientific principles underlying climate change and understand the major human contributions. … know most important impacts of climate change on different earth systems. … identify the main approaches to mitigation and adaptation. … recognize the concept of sustainability and its relevance to addressing global environmental and social challenges. ***2) Using and applying knowledge:*** ... apply scientific knowledge to assess climate change-related risks and vulnerabilities. … utilize data and models to analyse climate change trends and projections. … develop and implement strategies for reducing greenhouse gas emissions and enhancing climate resilience. … identify opportunities for sustainable practices in various sectors, including energy, housing, transportation, and agriculture. ***3) Scientific self-conception:*** ... identify the interdisciplinary nature of climate change, biodiversity loss, and social equity. … recognize the role of scientific inquiry in understanding climate change phenomena. … appreciate the importance of evidence-based decision-making in addressing environmental challenges. ***4) Personal development, ethical behaviour and professionalism:*** … evaluate scientific data on climate change and sustainability.

[17] Englisch

[18] bei wöchentlich: 12 Termin à 2 LVS (24 LVS) – bei Blockveranstaltungen: LVS nach Rücksprache

[19] jedes Semester oder nur Sommer- bzw. Wintersemester

[20] Mindestteilnehmendenzahl: 10– Maximale Teilnehmendenzahl: 40

[21] Bitte darauf eingehen „Was können die Studierenden am Ende?“ bzw. „Welche Kompetenzen haben die Studierenden am Ende der Veranstaltung erworben?“.

	… demonstrate expertise in the critical appraisal of multiple viewpoints and positions. … reflect on personal values and beliefs related to environmental stewardship and sustainability … demonstrate ethical behaviour in decision-making processes regarding environmental issues
Lehrinhalte *(teaching content)*	□ Historical perspectives on climate change and sustainability □ Planetary boundaries □ Causes of climate change: natural and anthropogenic greenhouse effect, feedback mechanisms □ Evidence for climate change: heat waves, drought, rising see levels, melting ice caps, weather extremes □ Impacts of climate change on different earth systems: atmosphere, cryosphere, hydrosphere, biosphere □ Impacts of climate change on human health, the economy, and the society □ Tipping elements: Antarctic and Greenland ice sheet, AMOC, permafrost □ Mitigation: Pathways to carbon neutrality: energy, materials, nutrition □ Adaptation: concepts for cities, farming, forestry, economy, etc. □ Concepts of sustainability: efficiency, consistency, sufficiency □ Policy and Governance: 1,5°C goal, IPCC, etc. □ Climate engineering
Literaturempfehlungen [22] *(reading list)*	Recommended additional reading**:** ▪ Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the IPCC, Geneva, Switzerland (2023) Open access at: https://www.ipcc.ch/report/sixth-assessment-report-cycle/ ▪ A. Schmittner: Introduction to climate sciences, Oregon state university, Corvallis, OR (2018), Open access at: https://open.oregonstate.education/climatechange/ ▪ Christopher Lant: Natural-Resources-Sustainability - An-introductory-synthesis (2023) Open access at: https://uen.pressbooks.pub/naturalresourcessustainability/ ▪ Further literature will be provided during the course
Prüfungsmodalitäten *(Assessment arrangements)*	
Art der Prüfung [23] *(type of examination)*	Portfolio exam consisting of: - data collection (at home and in Kempten) - oral presentations (during and after the seminar) - report (after the seminar) Additional tasks
Zeitpunkt der Prüfung [24] *(Examination period)*	During the seminar and after the seminar
Zugelassene Hilfsmittel *(approved aids)*	Depending on the task

[22] Drei bis vier Literaturempfehlungen erwünscht – werden projektspezifisch ergänzt

[23] schriftlicher Leistungsnachweise (Prüfung: 60 Minuten) / Seminararbeit (5 bis 10 Seiten) mit Präsentation

[24] schriftliche Prüfungen immer am Ende des Semesters / sonstige Leistungsnachweise während des Moduls

Formular für AW-Module (Umfang der Modulbeschreibung: ca. 1 Seite)

Allgemeine Angaben *(general information)*	
Name der Lehrveranstaltung (name of the course)	**2B Ski Engineering**
Lehrperson(en) (teacher)	Prof. H. Mayer Prof. S. Löhr
Sprache [25] *(language)*	English
SWS *(hours per week)*	3 SWS / 4 ECTS
Zeitaufwand: *(time required)* - Lehrveranstaltung LVS [26] *(contact hours)* - Selbststudium *(private study)*	Contact hours 32 Private study 64 Online hours 4 Total 100
Angebotsturnus [27] *(frequency)*	annual, in the winter semester
Max. Teilnehmende [28] *(max. participants)*	12
Beschreibung der Lehrveranstaltung *(description of the course)*	
Lernziele [29] *(learning objectives)*	Upon completing this module, students will be able to… 1) Knowledge and understanding: - explain the basic principles of ski construction, including ski geometry, materials and the function of individual components. - understand simplified bending theory and relate ski design and construction to different skiing applications. - describe the main materials, manufacturing processes and technological developments used in ski construction. 2) Using and applying knowledge: - research and critically evaluate technical information relevant to ski design and construction. - select suitable materials, geometry and construction methods for a defined application. - carry out and document essential ski manufacturing processes, from core preparation and edge bending to topsheet production and lamination. - analyze the relationship between design, materials, manufacturing processes and the properties of the finished skis. 3) Scientific self-conception:

[25] Englisch

[26] bei wöchentlich: 12 Termin à 2 LVS (24 LVS) – bei Blockveranstaltungen: LVS nach Rücksprache

[27] jedes Semester oder nur Sommer- bzw. Wintersemester

[28] Mindestteilnehmendenzahl: 10– Maximale Teilnehmendenzahl: 40

[29] Bitte darauf eingehen „Was können die Studierenden am Ende?“ bzw. „Welche Kompetenzen haben die Studierenden am Ende der Veranstaltung erworben?“.

	- independently acquire, structure and evaluate technical knowledge from different sources. - integrate knowledge from mechanics, materials science, product design and manufacturing technology to address an interdisciplinary engineering task. - develop and justify engineering decisions based on technical requirements, practical constraints and available evidence. 4) Personal development, ethical behaviour and professionalism: - organize and coordinate tasks effectively within an international project team. - communicate technical information and ideas clearly in an intercultural and multidisciplinary environment. - work responsibly and safely with tools, machinery and materials. - systematically document and communicate project results in a structured technical report. - reflect on their own contribution and on the challenges and outcomes of the project.
Lehrinhalte *(teaching content)*	- Introduction to ski engineering, ski history and applications - Basic ski construction, materials, geometries and simplified bending theory - Ski design and planning for a defined application - Preparation of individual ski components, including the core, edges, composite fabrics and topsheet - Ski assembly: Lamination and curing of the ski - Documentation and evaluation of the manufacturing process - Analysis of the finished skis and reflection on design and manufacturing decisions
Literatur-empfehlungen [30] *(reading list)*	https://en.wikipedia.org/wiki/Ski_geometry https://www.mechanicsofsport.com/skiing/equipment/skis/ski_construction.html https://www.armadaskis.com/en-ca/article/whats-my-ski-made https://buildskis.com https://craftski.de/material/
Prüfungsmodalitäten *(Assessment arrangements)*	
Art der Prüfung [31] *(type of examination)*	Portfolio exam consisting of: - data collection (at home and in Kempten) - performing practical laboratory work - report (after the seminar)
Zeitpunkt der Prüfung [32] *(Examination period)*	during the seminar and after the seminar
Zugelassene Hilfsmittel *(approved aids)*	depending on the task

[30] Drei bis vier Literaturempfehlungen erwünscht – werden projektspezifisch ergänzt

[31] schriftlicher Leistungsnachweise (Prüfung: 60 Minuten) / Seminararbeit (5 bis 10 Seiten) mit Präsentation

[32] schriftliche Prüfungen immer am Ende des Semesters / sonstige Leistungsnachweise während des Moduls