

Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	Labor für Produktdesign
Code der Lehrveranstaltung	42610
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich- disziplinärer Bereich	NN
Sprache	Italienisch
Studiengang	Berufsbildender Bachelor in Holztechnik
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	Dott. Simone Bellan, Simone.Bellan@unibz.it
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Erstes Semester
Studienjahr/e	1
KP	6
Vorlesungsstunden	0
Laboratoriumsstunden	60
Stunden für individuelles Studium	90
Vorgesehene Sprechzeiten	24
Inhaltsangabe	Design methodology - from the idea to the finished product - materials and product design Design and processes - brief, concept, choice of material, CMF, work tools, mock-up and aesthetic model, evaluation of production and processing technologies, prototype, sustainability in the production chain, packaging, transport, traceability, communication, sale, disposal - circular design

	Designers and products - case histories.
Themen der Lehrveranstaltung	The course aims to provide the student with the basic critical tools for the formation of their own project methodology in the field of product design, treating wood as the main theme. The student will be gradually introduced into the discipline, supported by the analysis of real case studies. The assignment of theoretical-
	practical exercises, which will present problems of increasing complexity, will see the course "42610 Laboratory of Product Design" integrated with the course "42609 Product Design", for the practical application of the theoretical methodologies addressed during the semester.
	Wood will be the main material with which to design. Practical exercises of varying duration will be assigned. The artefacts to be designed and created will have to respond and relate to ways and times similar to what happens in the professional world. The "design process" - always supported by research - will attempt to explore new paths, stimulating creativity, asking questions and triggering reflections that will lead to the definition of the "right" design.
Stichwörter	Design, Laboratory, Materials, Technologies, Production.
Empfohlene Voraussetzungen	Recommended but not required: use of woodworking tools and equipment.
Propädeutische Lehrveranstaltungen	
Unterrichtsform	Exercises.
Anwesenheitspflicht	Attendance is recommended but not mandatory. Exam modalities for non-attending students are indicated below, in the fields "Assessment" and "Evaluation criteria and criteria for awarding marks".
Spezifische Bildungsziele und erwartete Lernergebnisse	The course aims to provide the student with the basic critical tools for the formation of their own project methodology in the field of product design, treating wood as the main theme. The student will be gradually introduced into the discipline, supported by the analysis of real case studies. The assignment of theoretical-practical exercises, which will present problems of increasing complexity, will see the course "42610 Laboratory of Product Design" integrated with the course "42609 Product Design", for the

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Knowledge and understanding:

• D1.1 – Knowledge of the key concepts and technologies of data science disciplines.

Knowledge of the fundamentals of industrial design and product design that allow you to understand, analyze and evaluate the objective quality of an artefact.

• D1.2 – Understanding of the skills, tools and techniques required for an effective use of data science.

Ability to understand the various phases of conception, conception, development, presentation and creation of a design product.

 D1.11 – Knowledge of the main algorithms for data analysis, and of elements of the complexity theory.

Applying knowledge and understanding:

Communication skills

• D2.2 – Ability to address and solve a problem using scientific methods.

Re-elaboration of the knowledge acquired for the formation of one's own basic project methodology in the context of product design. Practical design application for the creation of a contemporary design product.

- D2.4 Ability to develop programmes and use tools for the analysis and management of data and related infrastructures. Making judgments
- D3.2 Ability to autonomously select the documentation (in the form of books, web, magazines, etc.) needed to keep up to date in a given sector.

Ability to critically and objectively evaluate the factors determining the aesthetic, perceptive (appeal), technical and productive quality of a design product, be it industrial or high craftsmanship.

D4.1 – Ability to use Italian at an advanced level with particular



	reference to disciplinary terminology. Autonomy in the presentation of a design project with appropriate methods and technical language. Learning skills D5.3 – Ability to deal with problems in a systematic and creative way and to appropriate problem-solving techniques. Ability to independently and proactively research, update and extend the knowledge acquired and the topics covered during the course. Development of organizational skills and teamwork.
Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	Project and execution time management.
Art der Prüfung	Assessment / Attending students The exam consists of the overall evaluation of the work carried out during the course (whether individual or in a team). Presentation of the final project. Evaluation: Pass/Fail. Exam modalities / Non-attending students The exam consists of the overall evaluation of the work carried out
	during the course (whether individual or in a team). Reviews with the teacher on the projects assigned during the semester are required, in a manner to be agreed upon and according to the course calendar, with delivery of the requested papers on OLE. Projects must be evaluated DURING the course and BEFORE the final exam, otherwise the exam cannot be recorded. Presentation of the final project. Evaluation: Pass/Fail.
	Even if attendance of this course is highly recommended, please inform the teacher at the beginning of the course if you will take the exam as a Non-attending student.
Bewertungskriterien	Evaluation criteria for Attending students and for Non-attending students Project's deadlines are mandatory. Partial projects or missed deadlines determine a partial evaluation which will contribute to the student's final mark.

	The presentation of the final project is required to be admitted to
	the final exam.
	the final exam.
Pflichtliteratur	 M. Ashby, C. Johnson, <i>Materiali e Design</i>, Casa Editrice Abrosiana, Milano 2005 R. Thompson, <i>Manufacturing processes for design professionals</i>, Thames & Hudson 2007 P. Forrester, <i>Enciclopedia delle tecniche di lavorazione del legno (The woodworker's technique bible)</i>, Il castello 2010 Subject Librarian: David Gebhardi, <u>David.Gebhardi@unibz.it</u> and Ilaria Miceli, <u>Ilaria.Miceli@unibz.it</u>
Weiterführende Literatur	Recommended/suggested but not mandatory:
	Design
	 H. Dreyfuss Associates, Le misure dell'uomo e della donna, BE-MA editrice, Milano 1994 AA.VV., Phaidon Design Classics, Phaidon Press Ltd, London 2006
	Materiali
	 J. Natterer, T. Herzog, M. Volz, Atlante del legno, UTET, Torino 2013 M. Levi, V. Rognoli, Materiali per il design: espressività e sensorialità, Polipress, Milano 2005 E. Manzini, La materia dell'invenzione. Materiali e progetto, Arcadia Edizioni, Milano 1986
Weitere Informationen	Software used - Recommended/suggested but not mandatory:
	Browser
	Safari, Chrome, Edge, Mozilla Firefox Operating
	Mac OS: Pages, Keynote, Numbers
	 Microsoft Office 365: Word, Excel, PowerPoint
	OpenOffice
	Graphic - Photo - Vector
	Microsoft Foto / Windows (freeware)
	Foto / MacOS (freeware)
	Icecream Photo Editor / Windows (freeware)
	GIMP / Windows, MacOS, Linux (freeware)
	Inkskape / Windows, MacOS (freeware)
	Corel Draw / Windows, MacOS (15-day free trial)



	Adobe Photoshop / Windows, MacOS, Linux (7-day free trial) Thustrator / Windows, MacOS, Linux (7 day free trial)
	Illustrator / Windows, MacOS, Linux (7-day free trial)
	 InDesign / Windows, MacOS, Linux (7-day free trial)
	 Affinity Photo / Windows, MacOS, Linux (trial period)
	2D - 3D
	 Autocad / Windows, MacOS (freeware ver. Educational)
	 Rhinoceros / Windows, MacOS, Linux (90-day free trial)
	 Solidworks / Windows, MacOS (UNIBZ license)
	 SolidEdge / Windows, MacOS (freeware ver. Educational)
	Rendering
	Keyshot / Windows, MacOS
	Vray / Windows, MacOS
Ziele für nachhaltige	Industrie, Innovation und Infrastruktur, Leben an Land,
Entwicklung (SDGs)	Maßnahmen zum Klimaschutz, Nachhaltiger Konsum und
	Produktion