

## **Syllabus**

## Kursbeschreibung

Titel der Lehrveranstaltung	Darstellende Geometrie ART
_	
Code der Lehrveranstaltung	97127
Zusätzlicher Titel der	
Lehrveranstaltung	
Wissenschaftlich-	MAT/03
disziplinärer Bereich	
Sprache	Englisch
Studiengang	Bachelor in Design und Künste - Studienzweig Kunst
Andere Studiengänge (gem.	
Lehrveranstaltung)	
Dozenten/Dozentinnen	PhD Mustapha El Moussaoui,
	Mustapha.ElMoussaoui@unibz.it
	https://www.unibz.it/en/faculties/design-art/academic-
	staff/person/46595
Wissensch.	
Mitarbeiter/Mitarbeiterin	
Semester	Erstes Semester
Studienjahr/e	1st
KP	6
Vorlesungsstunden	30
Laboratoriumsstunden	0
Stunden für individuelles	90
Studium	
Vorgesehene Sprechzeiten	18
Inhaltsangabe	The course provides students with basic tools and knowledge for
	the two-dimensional, analogue and digital representation of three-dimensional objects.
Themen der	Descriptive Geometry course allows students of design and art to
Lehrveranstaltung	understand different scales and dimensions, appreciate objects in
	space, and know how they are represented technically in geometric

	space. The course will allow students to draw objects technically, both by hand and digitally, by utilizing different methods of representation. Moreover, students will be exposed to different 2D patterns and ratios that could be developed into 3D objects.
Stichwörter	Scales, proportions, and Ratios Patterns Orthogonal and Axonometric Projections Perspectives Handmade Technical Drawings AI and Geometry
Empfohlene Voraussetzungen	none
Propädeutische Lehrveranstaltungen	none
Unterrichtsform	Frontal lectures, individual and group exercises, outing exploration, and personal research.
Anwesenheitspflicht	Not compulsory but recommended
Spezifische Bildungsziele und erwartete Lernergebnisse	<ul> <li>Knowledge and understanding</li> <li>have acquired the basic knowledge necessary to realise a project in the field of Descriptive Geometry;</li> <li>have acquired the basic knowledge necessary for further Master's studies in all components of project culture as well as in technical subjects, with a particular attention to the field of Descriptive Geometry.</li> </ul>
	Applying knowledge and understanding  - use the basic knowledge acquired in the technical fields to realise a mature project;  - make use of the skills acquired during the course of study in the event of continuing studies in a Master's degree programme and to develop them further.  Transversal competence and soft skills
	Making judgements  - Be able to make independent judgements for the purpose of developing their own design skills and in relation to all those decisions that are necessary to bring a project of Descriptive



	Geometry to completion.
	Communication skills
	- present an independently realised project in the field of
	Descriptive Geometry in the form of an installation, orally as well
	as in writing in a professional manner.
	Learning skills - have learned a work methodology at a professional level - in
	the sense of being able to identify, develop and realise solutions to
	complex problems by applying the acquired knowledge in the
	different fields, with a particular attention to the field of Descriptive
	Geometry - in order to start a professional activity and/or continue
	their studies with a master's degree programme;
	- have developed a creative attitude and learned how to enhance
	it and develop it according to their own inclinations;
	- have acquired basic knowledge in the field of Descriptive
	Geometry as well as a study methodology suitable for continuing
	studies with a Master's degree programme.
Spezifisches Bildungsziel	
und erwartete	
Lernergebnisse (zusätzliche	
Informationen)	
Art der Prüfung	- Students are expected to fully analyze objects and learn how to
	represent them in 2d and 3d technical drawings. Accordingly,
	evaluation criteria will be based upon student's progress of
	understanding different scales and techniques during semester
	exercises.
	- Students are expected to submit a final hardcopy portfolio of all
	the hand drawn exercises + a final pdf portfolio (which includes a
	scanned version of the hand drawn exercises + the digitally made
	drawings).
	ALL THE STUDENTS ATTENDING THE EXAM AS "OPT" OR AS NON-
	ATTENDING STUDENTS MUST AGREE UPON THE CONTENTS
	WITH THE TEACHER.
Bewertungskriterien	Evaluation criteria will be according to the following:
	- Communicating the object of choice into technical/digital
	drawings

	- The understanding of different scales, dimensions, and proportions
	- Neatness and presentation
	The final assessment is according to the following criteria:
	- Semester exercises assignments: 70% of final mark;
	- Final assignment: 30% of final mark
	- Tillal assignment. 50% of final mark
	Students must achieve the following skills:
	1- Related to semester assignments and final portfolio:
	-Ability in drawing techniques, composition, portfolio presentation
	and clarity of contents;
	-Respect of the deadline.
	-comprehension of theoretical and practical topics, related to
	geometry and its correct application to the assignments;
	geometry and its correct application to the assignments,
	2- Related to final project presentation:
	-Ability in teamwork.
	-Ability to correlate personal projects into the group project in a
	professional way;
	-Respect of the deadline
	-Respect of the deadline
Pflichtliteratur	1- Goetsch, David L., Chalk, William S, and Nelson, John A. Technical Drawing. 5th ed. Clifton Park, NY: Autodesk, 2005. Print.
	2. Welch C. I. Engineering Drawing and Descriptive Compater
	2- Walsh, C. J. Engineering Drawing and Descriptive Geometry. Cambridge: Harvard UP, 2013. Web.
	Kim, Nam-ho, Kumar, Ashok V., Author, and Snider, Harold F.,
	Author. Geometry of Design : A Workbook (2014). Web.
Weiterführende Literatur	
WYCHEITUITEILUE LILEIALUI	1- Puma, Paola. Disegno Dell'architettura. Firenze: Firenze UP,
	2003. Strumenti per La Didattica E La Ricerca. Web.
	2- Barbin, Évelyne., Menghini, Marta. Editor, Volkert, Klaus. Editor,
	Barbin, Evelyne, SpringerLink, and Springer-Verlag. SpringerLink.
	Descriptive Geometry, The Spread of a Polytechnic Art : The
	Legacy of Gaspard Monge (2019). Web.
	3- Tornincasa, Stefano., SpringerLink, and Springer-Verlag.
	SpringerLink. Technical Drawing for Product Design : Mastering
	ISO GPS and ASME GD&T (2021). Web.

	4- Magnaghi-Delfino, Paola., Mele, Giampiero. Editor, Norando, Tullia. Editor, SpringerLink, and Springer-Verlag. SpringerLink. Faces of Geometry. From Agnesi to Mirzakhani (2020). Web.
Weitere Informationen	
Ziele für nachhaltige Entwicklung (SDGs)	Industrie, Innovation und Infrastruktur