

Syllabus

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Titul dl curs	Geometria descrittiva DES
Codesc dl curs	97099
Titul suplementar	
SSD	MATH-02/B
Lingaz	Inglese
Curs de laurea	Corso di laurea in Design e Arti - Curriculum in Design
D'autri cursc de laurea (cursc deberieda)	
Dozenc	phd Mustapha El Moussaoui, Mustapha.ElMoussaoui@unibz.it https://www.unibz.it/en/faculties/design-art/academic-staff/person/46595
Assistent didatich	
Semester	Primo semestre
Ann/Agn de stude	1st
Credic universitar	6
Ores de insegnament	30
Ores de laboratore	0
Ores de stude individual	90
Ores de riceviment prevedudes	18
Ressumè di contegnus	The course provides students with basic tools and knowledge for the two-dimensional, analogue and digital representation of three-dimensional objects.
Argomenc dl curs	Object Study Scales, Proportions and Ratios Orthogonal and Axonometric Projections Perspectives Handmade Technical Drawing AI and Geometry

Paroles clef	Representation; Technical Drawings; Isometry; Orthogonal.
Prerequisic aconsiés	
Cursc propedeutics	none
Modalité de enseignament	Frontal lectures, individual and group exercises, outing exploration, personal research.
Oblianza de frecuencia	Not compulsory but recommended
Obietifs formatifs y competenzes da arjonje	Disciplinary competence Knowledge and understanding - have acquired the basic knowledge necessary to realise a project in the field of Descriptive Geometry; - 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. 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.
Obietifs formatifs y competenzes da arjonje (informazions suplementares)	
Sort de ejam	By the exam date, each student must upload their midterms, perspective, and final exercise to the faculty's Showcase website (information regarding the Showcase upload procedure will be given at later stages) Documentation is an integral part of the exam. The documentation must include visual documentation and an abstract of the project. - 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). N.B. ALL THE STUDENTS ATTENDING THE EXAM AS "OPT" OR AS NON-ATTENDING STUDENTS MUST AGREE UPON THE CONTENTS WITH THE TEACHER AT THE BEGINNING OF THE SEMESTER.
Criters de valutazion	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 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; 2- Related to final project presentation: - Ability in team working; - Ability to correlate personal projects into the group project in a professional way; - Respect of the deadline.
Bibliografia obbligatora	1- Goetsch, David L., Chalk, William S, and Nelson, John A. Technical Drawing. 5th ed. Clifton Park, NY: Autodesk, 2005. Print. 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
Bibliografia aconsiada	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.

Deplù informaziuns	
OSS	Innovazione e infrastrutture