

Syllabus

Descrizione corso

Titolo insegnamento	Principi di disegno tecnico
Codice insegnamento	42199
Titolo aggiuntivo	
Settore Scientifico-Disciplinare	IIND-03/B
Lingua	Inglese
Corso di Studio	Corso di laurea in Ingegneria Industriale Meccanica
Altri Corsi di Studio (mutuati)	
Docenti	prof. Yuri Borgiaanni, Yuri.Borgiaanni@unibz.it https://www.unibz.it/en/faculties/engineering/academic-staff/person/35189
Assistente	
Semestre	Secondo semestre
Anno/i di corso	1
CFU	3
Ore didattica frontale	22
Ore di laboratorio	8
Ore di studio individuale	45
Ore di ricevimento previste	9
Sintesi contenuti	The goal of the course is to illustrate the main rules to be followed in the technical drawing for representation of parts, which is of fundamental importance for communication among parties in mechanical, engineering and manufacturing companies.
Argomenti dell'insegnamento	<ul style="list-style-type: none"> - Lines used in technical drawing according to standards - Orthographic projections - Sections - Dimensioning - Introduction to 2D CAD modelling

Parole chiave	technical drawing; standards; projections; sections; dimensioning
Prerequisiti	-
Insegnamenti propedeutici	
Modalità di insegnamento	Lectures and exercises on projections, sections, dimensioning and drafting; tutorials for introducing 2D CAD
Obbligo di frequenza	Attendance is not compulsory
Obiettivi formativi specifici e risultati di apprendimento attesi	<p>Knowledge and understanding</p> <p>1) fundamental rules and standards of the technical drawing</p> <p>2) drafting of parts through the use of representation methods and dimensioning</p> <p>3) notions of 2D CAD systems</p> <p>Applying knowledge and understanding</p> <p>4) interpretation of a solid based on necessary views and sections</p> <p>5) applying drawing standards correctly</p> <p>6) representing a part accurately</p> <p>Making judgements</p> <p>7) autonomously choosing (and justifying the choice of) a specific representation method in terms of, e.g. clarity, completeness and non-ambiguity</p> <p>8) identifying the critical dimensions in the representation of a part</p> <p>Communication skills</p> <p>9) using the appropriate terms in the field of technical drawing</p> <p>Learning skills</p> <p>10) ability to autonomously extend the knowledge acquired during the study course by consulting additional sources</p>

	11) ability to interpret drawings and identify possible inconsistencies with standards
Obiettivi formativi specifici e risultati di apprendimento attesi (ulteriori info.)	-
Modalità di esame	<p>The examination of the course is via a written exam including:</p> <ol style="list-style-type: none"> exercises with projections and/or sections exercises to test the understanding of dimensioning and drafting questions about theoretical aspects exercises to detect errors in the technical drawing. <p>The assessment procedure evaluates</p> <ul style="list-style-type: none"> the capability of interpreting and representing technical systems correctly (Learning Outcomes 1, 2, 4, 5, 6, 7), by means of exercises of type a.; the capability of drafting and dimensioning correctly (Learning Outcomes 1, 2, 6, 7, 8), by means of exercises of type b.; the capability of reporting the fundamental notions of technical drawing in a correct and detailed way (Learning Outcomes 1, 9) by means of exercises of type c.; the capability of identifying inconsistencies in the technical drawing (Learning Outcomes 4, 5, 7, 8, 11) by means of exercises of type d. <p>The non-mentioned items of the above Learning Outcomes will be trained during the course as well. The Learning Outcome 3 will be pursued through specific exercises. The Learning Outcome 10 will be monitored by providing supplementary material.</p>
Criteri di valutazione	For each exercise included in the written exam, the maximum number of points achievable is indicated. The final score is the sum of points achieved in each exercise.
Bibliografia obbligatoria	Slides and other materials provided by the lecturer during the course. All materials will be shared in the repository used (MS Teams).
Bibliografia facoltativa	-
Altre informazioni	-

Obiettivi di Sviluppo Sostenibile (SDGs)	Innovazione e infrastrutture, Istruzione di qualità
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