



COURSE: <a href="#">Technical Industrial Drawing (ING-IND/15)</a>			
ACADEMIC YEAR: <a href="#">2017-2018</a>			
TYPE OF EDUCATIONAL ACTIVITY: <a href="#">Basic</a>			
TEACHER: <a href="#">Rocco FASANELLA</a>			
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Language: <a href="#">IT</a>			
ECTS: <a href="#">6</a>	n. of hours, lessons: <a href="#">36</a> n. of hours, practice: <a href="#">24</a>	Campus: <a href="#">Potenza</a> Dept./School: <a href="#">S.I.</a> Program: <a href="#">Ing. Meccanica (L-9)</a>	Semester: <a href="#">I</a>

#### EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The students must demonstrate their ability to read and interpret a mechanical design, both of mechanical parts and complex assemblies, and must be able to produce drawings and three-dimensional solid models by means of parametric design software, taking-over an existing component or an assigned drawing. Also the basic knowledge of the main machining processes will be subject to verification.

#### PRE-REQUIREMENTS

None

#### SYLLABUS

Technical drawing features. Traditional tools and digital tools for technical drawing. Technical drawing standards. Paper formats. Scale drawing. Lines and unified notations. Orthogonal projections. Axonometric projections. Selection of views. Positioning of views. Flat sections. Partial sections. Reversed sections. Ways of dimensioning. Functional d. Technological d. Testing d. Dimension lines. Layout and readability of the dimensions. Linear dimensions. Dimensions for arcs and circles. Dimensions for repetitive elements. Dimensions for threads and connections. Dimensioning systems: in series; in parallel; overlapping d.; Combined d.; coordinates d. Main machining processes. Elements of mechanical technology. Manufacture methods and processing cycles. Geometric tolerances and dimensional tolerances.

#### TEACHING METHODS

Theoretical lessons, Classroom tutorials.

#### EVALUATION METHODS

Practical test, Oral examination.

#### TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- [Chirone, E., Tornincasa, S., \*Disegno Tecnico Industriale\*, vol. 1 e 2, Ed. Il Capitello, Torino;](#)
- [Lessons slides in PPT format \(or PDF\).](#)

#### INTERACTION WITH STUDENTS

At the beginning of the course, after describing objectives, program and verification methods, the teacher provides a brief entrance test to verify the general level of departure of the class and collecting student contact information in order to put the teaching material available.

Reception hours: on Wednesdays and Fridays from 5:00 pm onwards.



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In addition to the weekly reception time, the teacher is available at any time for a student contact, through his email or telephone number.

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**EXAMINATION SESSIONS (FORECAST)<sup>1</sup>**

Session I (08/01/2018 – 31/03/2018): 26/01/2018; 28/02/2018; 30/03/2018

Session II (01/04/2018 – 10/08/2018): 30/05/2018; 27/06/2018; 25/07/2018

Session III (22/08/2018 – 31/12/2018): 26/09/2018; 31/10/2018

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SEMINARS BY EXTERNAL EXPERTS    YES     NO

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FURTHER INFORMATION

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<sup>1</sup> Subject to possible changes: check the web site of the Teacher or the Department/School for updates.