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COURSE: Technical Industrial Drawing (ING-IND/15)

TEACHER: Rocco FASANELLA

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website: //

Language IT

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ECTS: 6

n. of hours: 60

Academic year: 2015/2016

Campus: Potenza

Semester: II

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#### TOPICS

Technical drawing as a language. Standards of technical drawing. Projections and sections. Dimensioning systems. Elements of mechanical technology. Tolerances.

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#### TEACHING METHODS (please tick one or more options)

Theoretical lessons

Tutorials in classroom

Tutorials in laboratory

Project works

Technical visits

Other activities (please specify) \_\_\_\_\_

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#### TEXTBOOKS

- Chirone, E., Tornincasa, S., *Disegno Tecnico Industriale*, vol. 1 e 2, Ed. Il Capitello, Torino;
- Slides of the lectures in PDF format.

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#### ON-LINE EDUCATIONAL MATERIAL

web address: //

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#### 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 reproduce drawings on paper and / or 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.

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#### REQUIREMENTS

None

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#### EVALUATION METHODS (please tick one or more options)

Intermediate verifications

Written examination

Discussion of a project work

Practical test

Oral examination

Other methods (please specify) \_\_\_\_\_

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#### DETAILED CONTENT

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.



Università degli Studi della Basilicata  
**Scuola di Ingegneria**

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EXAMINATION SESSIONS (FORECAST)

I sessione (01/01/2016 – 31/03/2016) : 24/02/2016

II sessione (01/04/2016 – 10/08/2016) : 22/06/2016; 06/07/2016; 29/07/2016

III sessione (22/08/2016 – 31/12/2016) : 30/09/2016; 30/11/2016

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SEMINARS BY EXTERNAL EXPERTS    YES     NO

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FURTHER INFORMATION

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