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COURSE: Engineering drawing

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TEACHER: Enza Tolla

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e-mail: enza.tolla@unibas.it

website:

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Language: Italian

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ECTS: 6

n. of hours: 60

Academic year: 2014/15

Campus: Potenza

Semester: II

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#### TOPICS

Orthogonal projection. Axonometric projection. Quoted projection. Outline of the theory of shadows and perspective. Graphic standards. CAD. Architectural survey.

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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

U. Saccardi, Applicazioni di Geometria Descrittiva, Editrice Fiorentina, Firenze 1977 - AAVV Disegno, Teoria e Applicazioni Ermes, Potenza 1991 - M. Docci, R. Migliari, La scienza della rappresentazione, NIS Roma 1992 - M. Docci, F. Mirri, La redazione grafica del progetto architettonico, NIS Roma 1989 - F. Mirri, La rappresentazione tecnica e progettuale, NIS Roma 1992 - E. Tolla, A. Bixio, Un Laboratorio per il Rilievo CUES 2012 - Handouts provided by the teacher.

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#### ON-LINE EDUCATIONAL MATERIAL

web address: \_\_\_\_\_

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#### LEARNING OUTCOMES

To give students a basic methodology for drawing, using it as an instrument for elaborating and transmitting ideas.

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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

The course will give students the theoretical, critical and applicative instruments for a conscious use of representation both of architecture and territory. The various aspects of the discipline are described starting from the Descriptive Geometry, as an operative and methodological basis of drawing. Topics of the course: the fundamentals of representation. Recalling projective geometry. Orthogonal projections. Reference elements and representation of points, straight lines and planes. Tracks of straight lines and planes. General conditions of belonging. Intersections of planes. Plane rolling and true shape. Maximum pendency straight line of the plane. Representation of plane and solid figures, on reference and generical planes. Projection of groups of solids. Axonometric projections. The tracks' fundamental triangle: axonometric units. Orthogonal and oblique axonometry. Quoted projections. Elements of the Shadows theory. Elements of perspective. Graphical normative and UNI standards. Use of CAD. Operative methodology and measuring techniques in architectural relief.

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SEMINARS BY EXTERNAL EXPERTS YES / NO

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

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FURTHER INFORMATION

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