

ACADEMIC YEAR: 2016-2017

COURSE: Wood industry and processing

TYPE OF EDUCATIONAL ACTIVITY: Basic

TEACHER: Luigi Todaro

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Language: Italian

ECTS: (lessons / tutorials/practice): 6	n. of hours: 32 hours of lessons 32 hours of practice	Campus: Potenza School: SAFE Program: LM Forest and Environmental Sciences	Semester: I
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EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The goal of the course is to provide the theoretical and technical elements in wood processing with particular regard to the production of panels and the main products derived from wood. Final competencies to be obtained in the course: systematic understanding and practical skills in the technical, environmental and mechanical aspects of wood processing. At the end of the course, students will also be able to distinguish the different types of products, the relevant Standard Regulations (UNI, EN, ISO) and health risks during wood processing.

PREREQUIREMENTS

- LT (3-year degree): Forest and Environmental Science
- wood industry

SYLLABUS

CFU-1: Introduction to wood industry and processing. Plants or other industrial facilities in wood processing (sawing, boards production, drying). Wood modification and innovative wood product.

CFU-2: Wood processing of: plywood, modified wood, veneer, wood-based. Glued laminated timber products for structural and nonstructural use in accordance with rule (EN, etc).

CFU-3: Adhesives for wood products. Window and Door wood Materials. Furnishing (flooring, furniture, stairs).

CFU-4: Technical standards rules (UNI, EN, ISO). Physical and mechanical characteristics of the main wood species for wood industrial fields.

CFU-5 (esercitazioni): Visit and practice to wood industry companies.

CFU-6 (esercitazioni): experimental exercise in wood laboratory and identification of a different wood products.

TEACHING METHODS

32 hours of lessons 32 hours of laboratory and field practices.

EVALUATION METHODS

Oral examination at the end of the course.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Teaching material distributed in classroom.
- J. M Dinwoodie: Timber: its nature and behavior.
- G. Giordano. Tecnologia del legno UTET 1981-88 (disponibile presso la biblioteca della Facoltà)
- Adelizzi D. 1999 - Manuale dei semilavorati: semilavorati di legno naturale e pannelli a base di legno. Consorzio LegnoLegno, Reggio Emilia.



INTERACTIONS WITH STUDENTS

- in the office at planned days/hours (usually on Wednesday)
 - email, skype (every time)
 - mobile (every time)
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EXAMINATION SESSIONS (Forecast)

Calendar online:

<https://unibas.esse3.cineca.it/Home.do>

Usually the first Tuesday of every month (except August)

EVALUATION BOARD

Luigi Todaro
Nicola Moretti
Domenico Pierangeli

SEMINARS BY EXTERNAL EXPERTS YES
