

## 51. DESIGN OF WOOD BUILDINGS AND STRUCTURAL WORKS<sup>i</sup>

Level II

### Department of Agriculture, Food, Environment and Forestry (DAGRI)

The course is conducted in collaboration with  
*Institute for Bio Economics -National Research Council (CNR IBE)*  
*Federlegno Arredo*

*and the University of Trento with the award of a joint degree*

#### Course coordinator

Marco Togni

### STUDY PLAN

| Subject  | Academic Discipline | Credits   |
|--|---------------------|-----------|
| <b>Wood technology</b>   |                     | <b>7</b>  |
| Xylology   | AGR/06              | 3         |
| Technology and elements of wood anatomy                                | AGR/06              | 4         |
| <b>By-products and wood protection</b>                                 |                     | <b>8</b>  |
| Wood by-products for structural use                                    | AGR/06              | 5         |
| Wood alteration and protection   | AGR/06              | 3         |
| <b>Wood regulation and certification</b>                               |                     | <b>6</b>  |
| Regulation and certification of wood and wood products                 | AGR/06              | 3         |
| CPR and qualification procedures for structural wood products          | AGR/06              | 3         |
| <b>Wooden constructions</b>  |                     | <b>6</b>  |
| Design and verification of wooden structural elements in construction  | ICAR/09             | 3         |
| Design and verification of connections and linear and planar elements  | ICAR/09             | 3         |
| <b>Design of wooden structures</b>                                     |                     | <b>6</b>  |
| Works' design and technological conception                             | AGR/06              | 3         |
| Interventions on existing constructions                                | ICAR/09             | 3         |
| <b>Technical physics of buildings</b>                                  |                     | <b>7</b>  |
| Building physics and technical acoustics                               | ING-IND/11          | 4         |
| Thermal and acoustic performance; evolution of construction techniques | ICAR/10             | 3         |
| <b>Total credits for face-to-face teaching</b>                         |                     | <b>40</b> |
| <b>Internship</b>  |                     | <b>12</b> |
| <b>FINAL EXAMINATION (seminars 3 CREDITS)</b>                          |                     | <b>8</b>  |
| <b>TOTAL CREDITS</b>   |                     | <b>60</b> |

<sup>i</sup> This document is a translation of the form A.2 relating to the study plan of the course attached to the Decree of the Deputy number 873 (record 158006) of 25th of July 2022, drafted in Italian and issued on the Master | Didattica | Università degli Studi di Firenze | UniFI and which therefore constitutes the only official document. This English translation cannot be used for legal purposes and has the sole purpose of supplying information in English on the content of the public notice.