

1	MATERIALS TECHNOLOGY
2	COMPULSORY
3	EQF 7
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7	PROF.SSA LORENA DE AGOSTINI
8	<p>BRIEF DESCRIPTION</p> <p>Starting from the logic of the 3 R - Reduce - Reuse - Recycle, students will be introduced to the discovery and deepening of the materials technology, from the most traditional to the most innovative, and to their sustainable use.</p> <p>The program develops as a learning path through the technologies, performances, characteristics and requirements of the materials for the design, also analyzing the entire life cycle, from production to disposal, not forgetting the areas of application in architecture. This allows to have full awareness of the ecological footprint of the material itself and of the impact it can have on the environment, taking into account the dwindling of resources.</p>
9	FACE TO FACE
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11	<p>PROGRAM</p> <p>The main thematic areas that will be addressed are: TRADITION AND INNOVATION, TRANSPARENCY AND DENSITY, SUSTAINABILITY AND DURABILITY, RESISTANCE AND LIGHTNESS.</p> <p>To this end, experts in the sector, professionals and designers will be invited, guided tours will be organized to the most important companies, with particular regard to those present in the Brescia area, in addition to taking into consideration the main fairs and exhibitions in the sector.</p> <p>Focus: Wood&Biophilic Design</p>
12	<p>BIBLIOGRAPHY (further indications will be given at the beginning of the course)</p> <p><i>Mandatory</i> Alessia Massone, <i>Materiali per l'architettura</i>, Libreria Clup 2011 Chris Letteri, <i>Making it</i>, Laurence King Publishing 2018 Stephen R. Kellert, <i>Biophilic Design: The Theory, Science, and Practice of Bringing Buildings to Life</i>, John Wiley & Sons Inc 2008 (i capitoli specifici saranno comunicati agli studenti in itinere)</p> <p><i>Optional</i> Andrea Campioli, Monica Lavagna, <i>Tecniche e architettura</i>, CittàStudi Edizioni 2013 Valeria Tatano, <i>Materiali naturartificiali</i>, Officina Edizioni 2006 M.C. Torricelli, R. Del Nord, P. Felli, <i>Materiali e tecnologie dell'architettura</i>, Editori Laterza 2012 Cristina Paredes Benitez, <i>Architettura e materiali</i>, Logos 2011 Luca Bertolini, Matteo Gastaldi, <i>Introduzione ai materiali per l'architettura</i>, CittàStudi Edizioni 2011 Ezio Manzini, <i>La materia dell'Invenzione</i>, Arcadia, Milano 1986 Anna Barbara, <i>Storie di architettura attraverso i sensi</i>, Mondadori, 2000</p>
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14	<p>FINAL EXAMINATION</p> <p>A written report and a small project is required before the final examination; the examination requires the knowledge of the reference texts</p>
15	ITALIAN