

Dipartimento di Architettura e Disegno Industriale

Laboratories

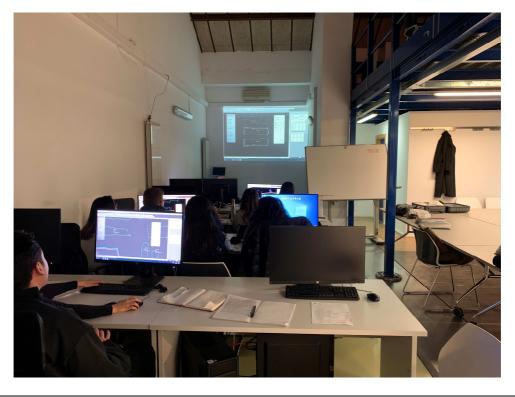
Design_LAB

Principal Investigator: Prof. Alessandra CIRAFICI

Responsible for teaching and research activities in the laboratory (R.a.d.o.r.): Prof. Alessandra CIRAFICI (proposed at the CdD of 13 February 2020)

Location:

The Laboratory Design-LAB is located at the headquarters of DADI and precisely on the ground floor of the volume adjacent to the abbey complex of San Lorenzo.



Main Laboratory Activities:

The Laboratory Design-LAB carries out activities to support teaching, experimental studies and scientific research. The working group operating in the laboratory is made up of lecturers, contract staff, assignees and PhD students who are interested in the themes of design and fashion product development.

For activities related to didactics, the Laboratory is aimed at enriching the learning experience of the students of the Study Course in Fashion Designers and of the Master's Degree Course, combining the

Dipartimento di Architettura e Disegno Industriale Via San Lorenzo Abazia di San Lorenzo ad Septimum 81031 Aversa (CE) T.: +39 081 5010700 F.: +39 081 5010704

dip.architettura@unicampania.it dip.architettura@pec.unicampania.it www.architettura.unicampania.it



technical knowledge of the fashion sector with the more specifically industrial ones. Expanding the students' knowledge through training studies and practical experience allows future designers to master the latest CAD/CAM technologies for the design and development of fashion products, thus facilitating their insertion into the world of work.

Through the laboratory activity, from the first creative idea to the final product, the student designers will be able to deal with every phase of the design process.

The Laboratory is equipped with hardware and software technologies able to provide advanced functions of:

- creation, size development and mass production (2D);
- interactive creation of placings;

- creation of textile collections: freehand drawing, colour patterns, association of styles, colours and materials, storyboarding and technical drawing;

- creation of three-dimensional models and animations for the digital simulation of the fashion show. The local Laboratory is served by a dedicated LAN network that connects the server to ten workstations for the students.

Main Equipment:

- n.1 Lectra Plotter model S120AT for digital pattern placement;
- n.1 Lectra board model DB6 3648 Digitizing paper patterns;
- n.1 Server type DELL PowerEdge R630 interface between hardware peripherals and data processing workstations;
- n.10 Workstation for two-dimensional data processing, raster, 3D modeling and animation;
- n.1 MS SQL Server (Network database management software);
- n.1 MdPGS (Software for creation, size development and mass production);
- n.1 MGS (Software for the interactive realization of placements);
- n.1 Kaledo Style (Software for creating textile collections);
- n.1 CLO3D (2D and 3D design and modeling software for fashion design);
- n.1 Marvelous Designer (Animation & photorealistic simulation software for fashion design);
- n.1 Rhinoceros 6 (Surface and solid vector and parametric solid modeling software).

Associated Research Groups:

- Sustainable industrial design.

Reference Scientific Subject Areas:

ICAR/ 13, ICAR/ 12, ICAR /17, BIO/01, ICAR/10, ICAR 18/ M-PSI/08/ SECS-P/08, CHIM10

ISI WEB categories:

- Engineering Industrial;
- Art & Architecture;
- Materials Science, Multidisciplinary;
- Literary Theory & Criticism;
- Social Sciences, Interdisciplinary.

ERC categories:

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- PE6_8 Computer graphics, computer vision, multimedia, computer games;
- PE8_11 Industrial design;
- SH2_10 Communication networks, media, information society;
- SH5_5 Visual and performing art, film, design;
- SH5_7 Museums and exhibitions;
- SH5_9 History of art and architecture;
- SH5_11 Cultural heritage, cultural memory.

Key words:

Sustainability, Innovation, Fashion System, Visual Communication, Advanced Textile, Design for Cosmetics, Bio innovation, Branding.

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