

## Fashion-Tech Design

*Are you a second year student enrolled in the Laurea Magistrale of Design for the Fashion System and Integrated Product Design and interested in the possibilities offered by digital technologies applied to fashion and wearables? Are you eager to develop a project in an international and multidisciplinary team? Sign up for selections for 'Fashion-Tech Design' an experimental elective course held from the 13<sup>th</sup> of September to the 1<sup>st</sup> of December 2021. Selection will be open from the 9<sup>nd</sup> to the 29<sup>th</sup> of July 2021!*

**Second Year** Laurea Magistrale students from Design for the Fashion System and Integrated Product Design - School of Design

**Language:** English

**Submission period:** from 9<sup>th</sup> to 29<sup>th</sup> of July 2021

**Credits:** 6 CFU - ECTS

### Course Description:

The course explores how fashion and technology are interconnected within different domains, focusing on the potential application of digital technologies and electronic devices (such as wearable technology and smart Textiles) in the textile, accessories, and design sectors. 100 students will have the opportunity to work in interdisciplinary and international groups of teammates selected from Politecnico di Milano - School of Design (Italy), Hogskolan i Boras - Swedish School of Textiles (Sweden), University of the Arts London – London College of Fashion (UK), TU/Delft - Industrial Design Engineering Faculty (The Netherlands), École supérieure des Technologies industrielles avancées – Graduate School of Advanced Industrial Technologies (France).

Maximum 25 students from POLIMI will take part in this experience and will be divided into two cohorts of 10/13 students, participating in one of the following courses:

- + **Scalability of Multidisciplinary F-Tech Solutions** - Addressing future sustainability challenges
- + **The Secret Life of Clothing** - Exploring Garment Interactions

Contents will be delivered through a preliminary theoretical part aimed to level the knowledge of the students as a prerequisite for the practical challenge-based part of the course. In the challenge-based part, students will work in the interdisciplinary international groups to experience the process of a project development activity that includes design, engineering, business management, research & development. The course calendar will follow an atypical schedule and will be communicated prior to the course, trying to accommodate students' academic calendars.

### + Scalability of Multidisciplinary F-Tech Solutions - Addressing future sustainability challenges

The digital course focuses on the field of Fashion-Tech and their value chains, aiming to advance students' knowledge on identifying future sustainable development challenges and how these can be solved by developing interdisciplinary and scalable fashion-tech solutions (covering design, technology, management aspects). The course will discuss scalability from social innovation perspective in terms of scaling-out, scaling deep and scaling-up dimensions.

### + The Secret Life of Clothing - Exploring Garment Interactions

How can data revealed by worn objects be used to create environmentally, socially and economically sustainable, interactive experiences? Fashion wearable technologies are often designed for novelty and status display, meaning they are only used for a short time before obsolescence and disposal. This is not sustainable for the planet or their designers, whose business ventures often fail. They can also capture very personal data, which users have little control over. This course explores how to do things differently! Working in international, interdisciplinary teams to develop collaboration and business skills, the course guides students through research-informed design ideation for an interactive wearable technology concept. The challenge-based part of the course introduces low-tech interaction design methods to simulate the data generated by a connected IOT (Internet of Things) wearable device to inform an interactive experience. Teams will showcase their design concept and low-tech interaction prototype in a short video to pitch the project.

### Selection process:

The course is open to second years students enrolled in the Laurea Magistrale Design for the Fashion System and Integrated Product Design. Candidates should send their applications through the Online Services. Students will receive an e-mail when the system will open and send their CV and the project portfolio (latest selected works) (maximum 10 MB both in pdf format). **The application is open from the 9<sup>th</sup> to the 29<sup>th</sup> of July.** If selected, students will add the course to their study plan (September).

A maximum of 30 points will be awarded per portfolio, a maximum of 5 per CV and an average as a discriminating factor in the event of a tie.

If you wish to waive participation, please include another course of your choice in your Plan of Study.

**For any inquiry about the course, e-mail to: [daria.casciani@polimi.it](mailto:daria.casciani@polimi.it)**

The selection criteria are intended to favour more mature and more team-oriented students with high problem-solving skills and advanced knowledge of the English language. These skills can be assessed from the CV and the project portfolio and consider the average exams' evaluation.

**Prerequisites:** Knowledge of design methodology; problem-solving skills, critical thinking, and creativity; ability to work in interdisciplinary and multicultural teams, having developed interpersonal and communication skills in previous design and/or work experiences; computer skills related to the use of a 3D modelling software; computer skills related to the use of software to generate raster and vector images of its choice.