INTERDISCIPLINARY PROGRAMME

SMART WEARABLE TECHNOLOGIES

POLITECNICO
MILANO 1863

INTERDISCIPLINARY PROGRAMME

Smart Wearable Technologies

Smart wearables (wearable electronic devices) are revolutionising the way we experience technology and they are evolving rapidly through constant technological innovation. As well as offering advanced features for health monitoring and tracking physiological parameters, they also enhance social interaction and enrich immersive experiences. In addition, their increasing integration with design and fashion is giving rise to a new market that harmoniously blends technology and aesthetics.

1. Design challenges

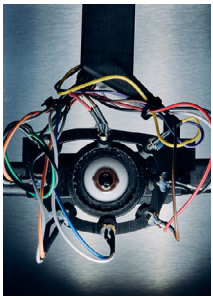
Today's smart wearable designers face complex challenges, including:

- **Technological evolution:** developing increasingly sophisticated solutions, ensuring high performance and maximum reliability combined with optimised energy consumption and effective design.
- **Integration in everyday life:** creating devices that adapt naturally to user habits through intuitive, functional interactions.
- **Value for users:** offering concrete benefits, improving the user experience and effectively addressing specific needs

2. New professional profiles

These challenges require new professional profiles capable of combining:

- In-depth multidisciplinary knowledge.
- The ability to collaborate with experts from other fields, adopting an interdisciplinary approach.



›1 Sensors integrated into the frame of glasses to measure eye parameters and movements. Test setup and development with a realistic eye model.
›2 Sensorized smart eyewear prototype for biosignal collection.

The following are also essential:

- A global view of the entire product ecosystem.
- The ability to collaborate with experts from other fields, adopting an interdisciplinary approach.

To meet the growing demand for new professional profiles capable of facing current and future challenges in the sector, the Politecnico di Milano, in collaboration with EssilorLuxottica, has launched the Interdisciplinary Programme in **SMART WEARABLE TECHNOLOGIES.**

2 SCHOOLS	
SCHOOL OF INDUSTRIAL AND INFORMATION ENGINEERING	SCHOOL OF DESIGN

8 PROGRAMMES			
BIOMEDICAL ENGINEERING	COMPUTER SCIENCE & ENGINEERING	DESIGN FOR THE FASHION SYSTEM	INTEGRATED PRODUCT DESIGN
ELECTRONICS ENGINEERING	ENGINEERING PHYSICS	DESIGN & ENGINEERING	DIGITAL & INTERACTION DESIGN

3. Opportunities

By choosing the Interdisciplinary Programme in Smart Wearable Technologies, you can:
• Dedicate at least 30 ECTS to specific training in the smart wearables sector from among the 120 ECTS envisaged in your programme.
• Take interdisciplinary courses, exploring new topics and approaches from other disciplines
• Acquire the necessary skills to meet the design challenges of smart wearables and enter an ever-expanding market.

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SMART EYEWEAR LAB

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