PROGRAMME NAME **PHYSICAL SCIENCES FOR INNOVATIVE TECHNOLOGIES**

DEPARTMENT **PHYSICS**

LANGUAGE **ENGLISH**

DEGREE LEVEL **BACHELOR'S DEGREE**

UNIVERSITÀ DEGLI STUDI DI MILANO BICOCCA

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WHY CHOOSE THIS PROGRAMME?

I chose this programme to shape the technologies of tomorrow **through physics**. It gives me a strong foundation while offering specialized tracks in **sustainable energy**, **quantum technologies**, **electronics, and AI—all in an international environment**. Thanks to extensive lab work and the joint programme by the Universities of Milano-Bicocca and Pavia, I am developing the key **practical skills** needed to build a successful career in research, innovation, and industry.

Leonard

ADMISSION: **LIMITED**
ENTRY TEST: **CENT-S**

DESTINATION: CAREER OPPORTUNITIES

- Research and development (R&D) in **high-tech industries**
- **Sustainable** energy and green technologies
- **Quantum** technologies and **advanced sensing**
- **Electronics, microchips, and AI-enabled systems**
- Further studies through Master's and PhD programmes

...and these are just a few of the career paths you can choose.

1st YEAR

CALCULUS	15 CFU
LINEAR ALGEBRA	6 CFU
FUNDAMENTALS OF PHYSICS	12 CFU
PHYSICAL MODELLING AND SIMULATIONS	6 CFU
PHYSICAL METHODS FOR INNOVATIVE TECHNOLOGIES	12 CFU
CHEMISTRY	6 CFU
FOREIGN LANGUAGE (ELECTIVE)	3 CFU

2nd YEAR

ELECTRICITY AND MAGNETISM	9 CFU
MATHEMATICAL METHODS FOR APPLIED PHYSICS	6 CFU
QUANTUM PHYSICS FOR TECHNOLOGICAL APPLICATIONS	12 CFU
LABORATORY FOR COMPUTATIONAL AND APPLIED PHYSICS	15 CFU
INNOVATION AND SUSTAINABILITY	6 CFU
STRUCTURE OF MATTER	6 CFU

+ 6 ELECTIVE CREDITS

3rd YEAR

ADVANCED STRUCTURE OF MATTER	6 CFU
DEVICE PHYSICS	12 CFU
INTERNSHIP	6 CFU
FINAL THESIS	3 CFU

+ 33 ELECTIVE CREDITS

FOR FURTHER DETAILS