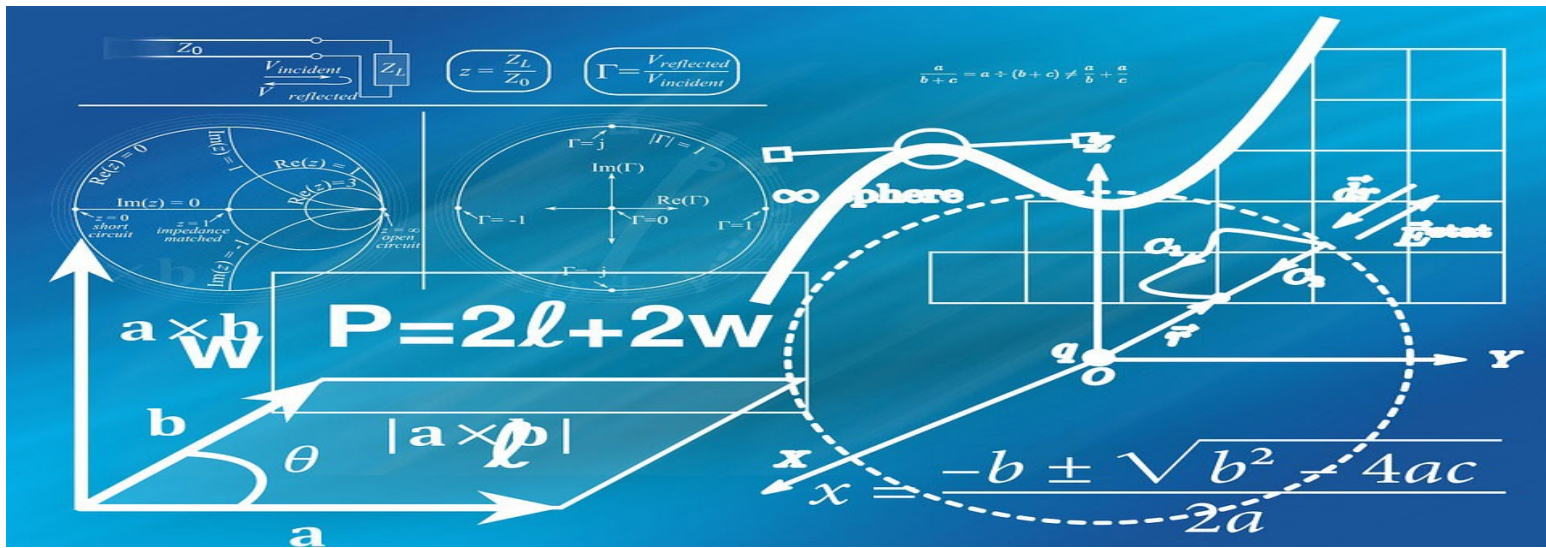


# Branch : Physics



**Code :** PHYSIC

**Option :** Physics

**Level :** Bachelor

**Prerequisites:** Scientific baccalaureate or equivalent

**Opportunities:**

Due to the broadness of the training and the low degree of specialisation, there are opportunities in many fields if you decide to start a career after obtaining a degree in physics. In addition to research, these include sectors as diverse as consulting and development, insurance companies, government agencies and software companies.

**Description**

Physics involves the experimental investigation, measurement and mathematical representation of natural processes. It is therefore of fundamental importance to the other natural sciences. The Bachelor's programme in physics provides a broad general education in physics. It therefore forms the basis for a subsequent master's programme. Within the programme, students can also choose their first individual specialisation in one of the following areas: nuclear, particle and astrophysics condensed matter physics biophysics or applied physics and engineering (AEP).

The mentoring programme is a unique feature of the Department of Physics. A mentor among the professors of the physics department is available to help a

small group of students from the first semester onwards with questions related to their study plan and with all non subject related questions.

**Quality and competences :**

As a graduate, you will have a thorough training in mathematics and be familiar with the fundamentals of the main subfields of physics. In experimental physics, this includes mechanics, electricity, optics, thermodynamics, atomic and molecular physics, as well as the subfields of theoretical physics: mechanics, electrodynamics and quantum mechanics.

Depending on your choice of specialisation, you will also have knowledge of nuclear, particle and astrophysics condensed matter physics, biophysics or applied physics and engineering . You will also be able to develop your skills in solving complex problems in interdisciplinary groups, and gain initial research experience through the laboratory placement.