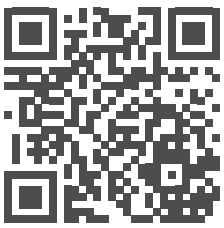




**Universitat**  
de les Illes Balears

## SCIENCES **PHYSICS**

**#SOM**  
**UIB**



DEGREE

### **What does it cover?**

The Degree in Physics offers general training in this core discipline of science and technology. Some of the goals of the programme are to: discover physical phenomena, as well as important theories and physical laws; master mathematical and numerical methods; apply known solutions to new problems, and enable students to carry out laboratory experiments.

### **What skills will you acquire?**

Students on the degree shall acquire skills such as the ability to knowledgeably describe the physical world using mathematics and to critically compare results of a calculation based on a physical model with conclusions from observations and experiments. All the detailed skills are listed on the programme website.



Faculty of Sciences  
Administrative Services:  
Mateu Orfila i Rotger Building  
Tel.: 971 17 34 88  
grau.mo@uib.cat

### **What profile should you have?**

- An interest in answering fundamental questions about science
- An enthusiasm for better understanding physical phenomena
- An ability to focus for studying and work
- An ability to relate concepts being studied
- Creativity in dealing with new questions.

### **What career opportunities will you have?**

Opportunities include:

#### **Research**

- Public institutions and centres
- National and regional research centres and institutes
- International research centres.

#### **Business research and management**

- Metrology and calibration
- Developing new productive systems
- Energy production
- Telecommunications
- Information technology
- Material quality control
- Medical radiation equipment control.

#### **Teaching**

- Secondary education
- University.

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**MORE INFORMATION**

<http://estudis.uib.cat/grau/fisica>  
<http://www.uib.cat/facultat/ciencias>

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Universitat  
de les Illes Balears

# SCIENCES PHYSICS

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## CURRICULUM

### FIRST YEAR

Semester One  
Mathematics I\*  
General Physics I\*  
Chemistry I\*  
Analysis of Experimental Data\*  
Computer Aided Physics\*

Semester Two  
Mathematics II\*  
General Physics II\*  
Chemistry II\*  
General Physics Laboratory\*  
Vector Calculus\*

### SECOND YEAR

Semester One  
Differential Equations I  
Classical Mechanics  
Thermodynamics  
Electronic Circuits  
Complex Variable

Semester Two  
Differential Equations II  
Analytical Mechanics  
Optics  
Experimental Physics I  
Electronic Instrumentation

### THIRD YEAR

Semester One  
Electromagnetism I  
Physics of Continuous Mediums  
Quantum Physics  
Function Spaces  
Computational Physics

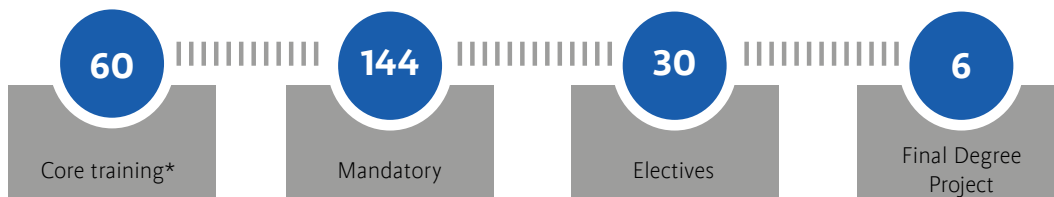
Semester Two  
Electromagnetism II  
Statistical Physics  
Quantum Mechanics  
Experimental Physics II  
Elective 1

### FOURTH YEAR

Semester One  
Solid State Physics  
Atomic and Molecular Physics  
Mechanical Statistics  
Elective 2  
Elective 3

Semester Two  
Physical Electronics  
Nuclear and Particle Physics  
Elective 4  
Elective 5  
Final Degree Project

## ECTS Credits: 240



There are six optional external placement credits in elective subjects.

LAST UPDATED: MAY 2017  
LAST REVISED: JULY 2019

### Did you know...

The UIB offers you several ways to accredit the English level you need to be awarded your degree?

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