

PHYSICS DEGREE

Centre [\(see\)](#)

| ECTS CREDITS | |
|-----------------------------|------------|
| Basic training (FB) | 60 |
| Compulsory (OB) | 132 |
| Optional (OP) | 36 |
| End-of-degree Project (TFG) | 12 |
| Total | 240 |



CLICK ON THE CODE OF EACH SUBJECT TO ACCESS THE COURSE HANDBOOK

FIRST YEAR

| Code | Subject | Credits | Type | Semester |
|-----------------------|-----------------------------|---------|------|----------|
| 16393 | EXPERIMENTAL TECHNIQUES I | 6 | OB | Annual |
| 16394 | COMPUTATION I | 6 | FB | Annual |
| 16385 | FUNDAMENTALS OF PHYSICS I | 6 | FB | 1 |
| 16386 | FUNDAMENTALS OF PHYSICS II | 6 | FB | 1 |
| 16389 | ANALYSIS I | 6 | FB | 1 |
| 16391 | ALGEBRA I | 6 | FB | 1 |
| 16387 | FUNDAMENTALS OF PHYSICS III | 6 | FB | 2 |
| 16388 | FUNDAMENTALS OF CHEMISTRY | 6 | FB | 2 |
| 16390 | ANALYSIS II | 6 | FB | 2 |
| 16392 | ALGEBRA II | 6 | FB | 2 |

SECOND YEAR

| Code | Subject | Credits | Type | Semester |
|-----------------------|----------------------------|---------|------|----------|
| 16401 | EXPERIMENTAL TECHNIQUES II | 6 | OB | Annual |
| 16395 | MATHEMATICAL METHODS I | 6 | OB | 1 |
| 16397 | MECHANICS AND WAVES I | 9 | OB | 1 |
| 16399 | ELECTROMAGNETISM I | 6 | OB | 1 |
| 16402 | COMPUTATION II | 6 | FB | 1 |
| 16396 | MATHEMATICAL METHODS II | 6 | OB | 2 |
| 16398 | MECHANICS AND WAVES II | 6 | OB | 2 |
| 16400 | ELECTROMAGNETISM II | 9 | OB | 2 |
| | OPTIONAL SUBJECTS | 6 | OP | 2 |

THIRD YEAR

| Code | Subject | Credits | Type | Semester |
|-------|---|---------|------|----------|
| 16409 | EXPERIMENTAL TECHNIQUES III | 6 | OB | Annual |
| 16410 | ELECTRONICS | 6 | OB | Annual |
| 16403 | MATHEMATICAL METHODS III | 6 | OB | 1 |
| 16404 | OPTICS | 6 | OB | 1 |
| 16405 | THERMODYNAMICS AND STATISTICAL PHYSICS I | 6 | OB | 1 |
| 16407 | QUANTUM MECHANICS I | 6 | OB | 1 |
| 16406 | THERMODYNAMICS AND STATISTICAL PHYSICS II | 6 | OB | 2 |
| 16408 | QUANTUM MECHANICS II | 6 | OB | 2 |
| | OPTIONAL SUBJECTS | 12 | OP | 2 |

FOURTH YEAR

| Code | Subject | Credits | Type | Semester |
|-------|---|---------|------|----------|
| 16416 | END-OF-DEGREE PROJECT | 12 | TFG | Annual |
| 16411 | ATOMICAL AND MOLECULAR PHYSICS | 6 | OB | 1 |
| 16412 | SOLID STATE PHYSICS | 6 | OB | 1 |
| 16414 | NUCLEAR PHYSICS AND ELEMENTARY PARTICLES | 6 | OB | 1 |
| 16415 | ASTROPHYSICS AND COSMOLOGY | 6 | OB | 1 |
| 16413 | PHYSICAL ELECTRONICS, MAGNETISM AND SUPERCONDUCTIVITY | 6 | OB | 2 |
| | OPTIONAL SUBJECTS | 18 | OP | 2 |

OPTIONAL SUBJECTS

SECOND YEAR

| Code | Subject | Credits | Type | Semester |
|-------|-------------------|---------|------|----------|
| 16417 | PHYSICS OF FLUIDS | 6 | OP | 2 |
| 16418 | BIOPHYSICS | 6 | OP | 2 |

THIRD YEAR

| Code | Subject | Credits | Type | Semester |
|-------|-------------------------------|---------|------|----------|
| 16417 | PHYSICS OF FLUIDS | 6 | OP | 2 |
| 16418 | BIOPHYSICS | 6 | OP | 2 |
| 16419 | ADVANCED MATHEMATICAL METHODS | 6 | OP | 2 |
| 16420 | CLASSICAL ELECTRODYNAMICS | 6 | OP | 2 |
| 16421 | ENERGY SOURCES | 6 | OP | 2 |
| 16422 | ADVANCED COMPUTING | 6 | OP | 2 |

FOURTH YEAR

| Code | Subject | Credits | Type | Semester |
|-------|-------------------|---------|------|----------|
| 16417 | PHYSICS OF FLUIDS | 6 | OP | 2 |

| Code | Subject | Credits | Type | Semester |
|--------------|-------------------------------|---------|------|----------|
| <u>16418</u> | BIOPHYSICS | 6 | OP | 2 |
| <u>16419</u> | ADVANCED MATHEMATICAL METHODS | 6 | OP | 2 |
| <u>16420</u> | CLASSICAL ELECTRODYNAMICS | 6 | OP | 2 |
| <u>16421</u> | ENERGY SOURCES | 6 | OP | 2 |
| <u>16422</u> | ADVANCED COMPUTING | 6 | OP | 2 |
| <u>16423</u> | QUANTUM MECHANICS | 6 | OP | 2 |
| <u>16424</u> | STATISTICAL MECHANICS | 6 | OP | 2 |
| <u>16425</u> | NANOPHYSICS | 6 | OP | 2 |
| <u>16426</u> | MATERIALS SCIENCE | 6 | OP | 2 |
| <u>16427</u> | SPECTROSCOPY OF SOLIDS | 6 | OP | 2 |
| <u>16428</u> | CONDENSED MATTER PHYSICS | 6 | OP | 2 |
| <u>16429</u> | HIGH ENERGY PHYSICS | 6 | OP | 2 |
| <u>16430</u> | PHYSICS OF COSMOS | 6 | OP | 2 |
| <u>16431</u> | PHOTONICS | 6 | OP | 2 |
| <u>16433</u> | EXTERNAL PRACTICAL | 6 | OP | 2 |

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