

Name of HEI

An Chomhairle  
Mhúinteoireachta



**The Teaching Council**

## **Subject Specification Form (SSF)**

# **Physics**

**For the submission of programmes  
for review and professional  
accreditation by the Teaching  
Council (concurrent post-primary  
programmes only)**

**A Subject Specification Form must be submitted for  
each post-primary curricular subject included in the  
accreditation application.**

# Physics

In order to meet the registration requirements set down in the Teaching Council [Registration] Regulations in respect of the curricular subject of Physics, **all** of the following criteria must be met:

- 1** (a) Physics must be studied in the degree up to and including third-year level or higher (or modular equivalent).
- (b) The qualifying degree must be equivalent to at least Level 8 on the National Framework of Qualifications (NFQ) and with a minimum pass result in all examinations pertinent to the subject of Physics.
- (c) The qualifying degree must carry at least 180 ECTS (European Credit Transfer System) credits (or equivalent) with the specific study of Physics comprising at least 60 ECTS credits (or equivalent).

- 2** The study of Physics during the qualification must show that the holder has acquired sufficient knowledge, skills and understanding to teach the Physics syllabus/specification to the highest level in post-primary education (see [www.curriculumonline.ie](http://www.curriculumonline.ie)).

To meet this requirement the degree must include the study of at least **five** of the following areas:

1. Mechanics
2. Quantum Mechanics
3. Properties of Matter
4. Oscillations, Waves, Acoustics
5. Thermodynamics
6. Light and optics
7. Current Electricity
8. Electromagnetism
9. Electronics
10. Condensed Matter/ Solid State Physics
11. Relativity
12. Particle Physics
13. Topic in Advanced or Applied Physics
14. Astronomy

- 3** Laboratory/practical work must be completed in the course of the degree.

# Physics

Please answer the questions below and insert module code(s), module title(s) and ECTS credit values as required.

<b>1</b>	Is the degree equivalent to a least a Level 8 on the Irish National Framework of Qualifications (NFQ) with Physics studied up to and including third-year level or higher (or modular equivalent)?	<b>Yes</b>	<b>No</b>
<b>2</b>	Does the degree carry a minimum of 180 ECTS credits (or equivalent)?	<b>Yes</b>	<b>No</b>
<b>3</b>	Does the study of Physics carry a minimum of 60 ECTS credits (or equivalent)?	<b>Yes</b>	<b>No</b>
<b>4</b>	Does the study of Physics show that the graduate has acquired sufficient knowledge, skills and understanding to teach the Physics syllabus/specification to the highest level in post-primary education (see <a href="http://www.curriculumonline.ie">www.curriculumonline.ie</a> )?	<b>Yes</b>	<b>No</b>
<b>5</b>	Does the study of Physics include the study of at least five of the following essential areas? 1. Mechanics 2. Quantum Mechanics 3. Properties of Matter 4. Oscillations, Waves, Acoustics 5. Thermodynamics 6. Light and optics 7. Current Electricity 8. Electromagnetism 9. Electronics 10. Condensed Matter/ Solid State Physics 11. Relativity 12. Particle Physics 13. Topic in Advanced or Applied Physics 14. Astronomy	<b>Yes</b>	<b>No</b>
<b>6</b>	Does the study of Physics include the essential area of laboratory practical work?	<b>Yes</b>	<b>No</b>

# Physics

In relation to the questions above, please list below the module code(s), title(s) and ECTS credit values for each module studied.

## Essential Areas of Study

Area of Study:

### Mechanics

Module Code	Module Title	ECTS Credit Value

Area of Study:

### Quantum Mechanics

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Properties of Matter**

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Oscillations, Waves, Acoustics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Thermodynamics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:**

**Light and optics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:**

**Current Electricity**

Module Code	Module Title	ECTS Credit Value

**Area of Study:**

**Electromagnetism**

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Electronics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Condensed Matter/ Solid State Physics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Relativity**

Module Code	Module Title	ECTS Credit Value

**Area of Study:**

**Particle Physics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:**

**Topic in Advanced or Applied Physics**

Module Code	Module Title	ECTS Credit Value

**Area of Study:**

**Astronomy**

Module Code	Module Title	ECTS Credit Value



**Essential Area of Study:****Laboratory/practical work**

Module Code	Module Title	ECTS Credit Value

**Area of Study:****Other**

Module Code	Module Title	ECTS Credit Value

**Total ECTS Credits in Physics**