

Name of HEI

An Chomhairle
Mhúinteoireachta



The Teaching Council

Subject Specification Form (SSF)

Physics & Chemistry

**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 & Chemistry

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

- 1**
 - (a) Physics and Chemistry 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 and Chemistry.
 - (c) The qualifying degree must carry at least 180 ECTS (European Credit Transfer System) credits (or equivalent) with the specific study of Physics and Chemistry comprising at least 60 ECTS credits (or equivalent).

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

To meet this requirement the degree must include the study of at least four of the following Physics areas (a) to (g) and at least two of the Chemistry areas (h), (i), and (j):

- a) Mechanics
- b) Quantum Mechanics
- c) Oscillations, Waves, Acoustics
- d) Thermodynamics
- e) Light and optics
- f) Electromagnetism
- g) Particle Physics

The degree must also include the study of at least two of the following Chemistry areas:

- h) Organic Chemistry
- i) Inorganic Chemistry
- j) Physical Chemistry

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

Physics & Chemistry

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

<p>1 Is the degree equivalent to a least a Level 8 on the Irish National Framework of Qualifications (NFQ) with Physics and Chemistry studied up to and including third-year level or higher (or modular equivalent)?</p>	<p>Yes</p>	<p>No</p>
<p>2 Does the degree carry a minimum of 180 ECTS credits (or equivalent)?</p>	<p>Yes</p>	<p>No</p>
<p>3 Does the study of Physics and Chemistry carry a minimum of 60 ECTS credits (or equivalent)?</p>	<p>Yes</p>	<p>No</p>
<p>4 Does the study of Physics and Chemistry show that the graduate has acquired sufficient knowledge, skills and understanding to teach the Physics and Chemistry syllabus/specification to the highest level in post-primary education (see www.curriculumonline.ie)?</p>	<p>Yes</p>	<p>No</p>
<p>5 Does the study of Physics and Chemistry include the study of at least four of the following Physics areas (a) to (g) and at least two of the Chemistry areas (h), (i), and (j):</p> <p>a) Mechanics</p> <p>b) Quantum Mechanics</p> <p>c) Oscillations, Waves, Acoustics</p> <p>d) Thermodynamics</p> <p>e) Light and optics</p> <p>f) Electromagnetism</p> <p>g) Particle Physics</p> <p>Does the degree also include the study of at least two of the following essential Chemistry areas?</p> <p>h) Organic Chemistry</p> <p>i) Inorganic Chemistry</p> <p>j) Physical Chemistry</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
<p>6 Does the study of Physics and Chemistry include the essential area of laboratory/practical work?</p>	<p>Yes</p>	<p>No</p>

Physics & Chemistry

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

(studies must include at least four of the following seven areas)

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:

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:

Electromagnetism

Module Code	Module Title	ECTS Credit Value

Area of Study:

Particle Physics

Module Code	Module Title	ECTS Credit Value

Area of Study:

Laboratory practical work

Module Code	Module Title	ECTS Credit Value

Essential Areas of Study

(studies must include at least two of the following three areas)

Area of Study:

Organic Chemistry

Module Code	Module Title	ECTS Credit Value

Area of Study:

Inorganic Chemistry

Module Code	Module Title	ECTS Credit Value

Area of Study:

Physical Chemistry

Module Code	Module Title	ECTS Credit Value

Area of Study:

Other

Module Code	Module Title	ECTS Credit Value

Total ECTS Credits in Physics & Chemistry