Professional Master of Education
Subject Declaration Form

> ### IMPORTANT
> **This declaration form should be returned to the PME provider(s) to which you have applied or the Postgraduate Applications Centre (PAC).**
> (More details on the last page of this form.)

For persons applying for registration on or after **1 January 2023**

Applied Mathematics

This Subject Declaration Form allows you to match your degree (and other qualifications if applicable) against the Teaching Council's curricular teaching subject requirements. You must meet the requirements for at least one curricular subject in order to be considered for registration as a teacher, having completed your Professional Master of Education (PME).

A declaration form should be completed online, printed and signed by persons applying for entry to the PME.

You should complete a subject declaration form for each subject for which you are seeking Teaching Council registration.

The requirements for the curricular subject **Applied Mathematics** are set out on page 2.

For details of all other curricular subjects click here

Applicants should note that declarations made on this form will be considered by the PME provider(s) when determining offers of places on the PME. **Any material errors or misleading declarations made on this form may result in the withdrawal by the PME provider of (an offer of) a place or other such action as the PME provider determines appropriate**.

If you are offered a place on the PME, and have granted permission, this declaration will be forwarded to the Teaching Council. The Council will advise if you meet the registration requirements.

Based on this declaration form and your transcripts of undergraduate results, the Teaching Council will confirm if you will be eligible to register as a teacher after successful completion of the PME. The Teaching Council will also confirm the curricular subject(s) that will be recorded on the Register of Teachers.

Applied Mathematics

In order to meet the registration requirements set down in the Teaching Council [Registration] Regulations in respect of the curricular subject of Applied Mathematics, an applicant must meet ***all*** *of the following criteria:*

1
(a) Applicants must hold a degree-level qualification, with Applied Mathematics studied 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 Applied Mathematics.

(c) The qualifying degree must carry at least 180 ECTS (European Credit Transfer System) credits (or equivalent) with the specific study of Applied Mathematics comprising at least 60 ECTS credits (or equivalent).

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

The study must include all of the following Essential Areas of study

a) Mechanics

b) Discrete Mathematics (to include Graph Theory)

c) Differential Equations

d) Geometry

e) Analysis

f) Algebra

The remaining ECTS may be from the following Optional Areas of study

g) Dynamical Systems and Chaos

h) Numerical Analysis or Computational Mathematics or Computational Modelling

i) History or Philosophy of Applied Mathematics, Mechanics, Mathematics or Science

j) Mathematical Modelling

k) Mathematical Biology

l) Financial Mathematics

m) Population Dynamics

n) Environmental Modelling

o) Probability and Statistics

p) Operations research

Applied Mathematics

Name:

Address:

Date of Birth: **PPS Number:**

Email:

Phone No: **Mobile No:**

Degree Title:

Degree Awarding Body: **Year of Award:**

Other Relevant Qualification(s) in Applied Mathematics (if applicable):

Title of qualification	Awarding Body	Year of Award

Applied Mathematics

If you are in the final year of your degree or completing further studies to enable you to meet the Teaching Council's registration requirements for a curricular subject, you can record details of these ongoing studies, including module title(s) and ECTS credit weighting(s) in the grid below, provided all relevant studies are successfully completed prior to taking up a place on the PME.

Please answer questions 1-5 below and insert module code(s), module title(s) and ECTS credit values as required.		
1 Is your degree equivalent to a least a Level 8 on the Irish National Framework of Qualifications (NFQ)?	◯ **Yes**	◯ **No**
2 Does your degree carry a minimum of 180 ECTS credits (or equivalent)?	◯ **Yes**	◯ **No**
3 Do your studies in Applied Mathematics carry a minimum of 60 ECTS credits (or equivalent)?	◯ **Yes**	◯ **No**
4 Do your studies of Applied Mathematics include all of the following Essential Areas of study?		
a) Mechanics	◯ **Yes**	◯ **No**
b) Discrete Mathematics (to include Graph Theory)	◯ **Yes**	◯ **No**
c) Differential Equations	◯ **Yes**	◯ **No**
d) Geometry	◯ **Yes**	◯ **No**
e) Analysis	◯ **Yes**	◯ **No**
f) Algebra	◯ **Yes**	◯ **No**
5 Do your studies in Applied Mathematics include study in any of the following optional areas:		
g) Dynamical Systems and Chaos	◯ **Yes**	◯ **No**
h) Numerical Analysis or Computational Mathematics or Computational Modelling	◯ **Yes**	◯ **No**
i) History or Philosophy of Applied Mathematics, Mechanics, Mathematics or Science	◯ **Yes**	◯ **No**
j) Mathematical Modelling	◯ **Yes**	◯ **No**
k) Mathematical Biology	◯ **Yes**	◯ **No**
l) Financial Mathematics	◯ **Yes**	◯ **No**
m) Population Dynamics	◯ **Yes**	◯ **No**
n) Environmental Modelling	◯ **Yes**	◯ **No**
o) Probability and Statistics	◯ **Yes**	◯ **No**
p) Operations Research	◯ **Yes**	◯ **No**

Applied Mathematics

In relation to questions 3, 4 and 5 above, please list below the 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: Discrete Mathematics (to include Graph Theory)		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Differential Equations		
Module Code	**Module Title**	**ECTS Credit Value**

Applied Mathematics

Area of Study: Geometry		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Analysis		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Algebra		
Module Code	**Module Title**	**ECTS Credit Value**

Applied Mathematics

Optional Areas of Study

The remaining ECTS may be from the following Optional Areas of Study:

Area of Study:
Dynamical Systems and Chaos

Module Code	Module Title	ECTS Credit Value

Area of Study:
Numerical Analysis or Computational Mathematics or Computational Modelling

Module Code	Module Title	ECTS Credit Value

Area of Study:
History or Philosophy of Applied Mathematics, Mechanics, Mathematics or Science

Module Code	Module Title	ECTS Credit Value

Applied Mathematics

Area of Study: Mathematical Modelling		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Mathematical Biology		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Financial Mathematics		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Population Dynamics		
Module Code	**Module Title**	**ECTS Credit Value**

Applied Mathematics

Area of Study: Environmental Modelling		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Probability and Statistics		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Operations research		
Module Code	**Module Title**	**ECTS Credit Value**

Area of Study: Other		
Module Code	**Module Title**	**ECTS Credit Value**

Total ECTS Credits in Applied Mathematics	

Applied Mathematics

I declare that I have completed the studies in **Applied Mathematics** as set out above and that the details that I have entered in the tables above are true and accurate to the best of my knowledge.

I hereby authorise the authorities in the PME provider(s) to whom I am applying to provide the Teaching Council with the details necessary to commence my registration with the Teaching Council, i.e., my name, contact address, date of birth, gender, PPS number, email address, telephone contact details and a copy of this Subject Declaration Form. The PME provider(s) to whom I am applying are:

1	
2	
3	
4	

Name:

Date:

Signature:

IMPORTANT

This declaration form should be returned to the PME provider(s)* to which you have applied. Do not return to the Teaching Council.

*Where applications have been made to the four NUIs or DCU this form should be returned to the Postgraduate Applications Centre (PAC).