School of Education
Scoil an Oideachais
School of Education
At a glance...

TEACHING PROGRAMMES
- BA Maths & Ed (BME)
- BA Education Computer Science and Mathematical Studies BA Ed. (CSM)
- Máistir Gairmiúil san Oideachas (MGO)
- Professional Master of Education (PME)
- Master of Education (MEd)
- Postgraduate Diploma in Special Educational Needs (PGDSEN)
- Ph.D./M.Litt.

STUDENTS
430
55 UG / 375 PG

First Teaching programme
Established in
1915

23 Research Projects

RECENT KEY ACHIEVEMENTS
- Nominated for graduate programme of the year 2016 & 2018
- Literacy and Numeracy TEACHER EDUCATION Research Network (LaNTERN)
- OVER 1 MILLION euro of funded research projects
**National University of Ireland, Galway**

**School of Education**

### Undergraduate Courses

- Bachelor of Arts in Education Computer Science and Mathematical Studies  BA E. (CSM)
- Bachelor of Arts in Education Mathematics and Applied Mathematics (BME)

### Postgraduate Courses

#### Teacher Education Masters Courses

- Professional Masters of Education (PME)
- Máistir Gairmiúil san Oideachas (MGO)

#### Thematic Graduate Courses

- M.Ed Learning Design Technology
- M.Ed School Leadership
- Postgraduate Diploma in School Leadership (PDSL) / Diploma Gaírmhúil i gCeannaireacht Scoile (DGCS)
- M.Ed Special and Inclusive Education
- Graduate Diploma in Special Educational Needs

#### School of Education Research Degrees

- MLitt Education
- PhD Education

Further information on School of Education activities and programmes is available here [www.nuigalway/education](http://www.nuigalway/education)
The BA (Mathematics and Education) provides a unique opportunity for students passionate about mathematics to pursue a four-year, full-time honours mathematics degree programme, which incorporates a teaching qualification. Graduates of the programme are high-quality mathematicians and are recognised by the Teaching Council of Ireland as qualified second-level teachers of Mathematics and Applied Mathematics.

**Work Placement**

As part of the programme, you will undertake a School Placement component each year. In total, you will complete 100 hours teaching between years one and three, and 13 weeks in a second level school in year four of the programme.

**International Links**

The BA (Mathematics and Education) has links with teacher education institutions throughout Europe and with international centres of excellence in mathematics and mathematics education research.

**Career Prospects**

Our graduates are keenly sought for teaching positions in Ireland and abroad. As a graduate, a huge variety of career options are available, including further or higher education, academic or industrial research, ICT, finance, actuarial work, meteorology and scientific journalism.

<table>
<thead>
<tr>
<th>BA Mathematics and Education</th>
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<tbody>
<tr>
<td>CAO Code: GY109</td>
</tr>
<tr>
<td>Course Level: 8</td>
</tr>
<tr>
<td>Duration: 4 Years</td>
</tr>
<tr>
<td>Minimum Entry Points 2018: 403</td>
</tr>
<tr>
<td>Minimum A-Level Grades: See <a href="http://www.nuigalway.ie/alevels">www.nuigalway.ie/alevels</a></td>
</tr>
<tr>
<td>Leaving Certificate Entry Requirements: Minimum Grade H5 in two subjects and passes in four other subjects at O6/H7 level in the Leaving Certificate, including Irish, English, another language, and three other subjects recognised for entry purposes. A H5 or O1 Grade in Mathematics is also a requirement.</td>
</tr>
<tr>
<td>A-Level/GCSE Entry Requirements: See website <a href="http://www.education.ie">www.education.ie</a></td>
</tr>
<tr>
<td>Additional Requirements: Students must satisfy the Garda/police vetting requirements.</td>
</tr>
<tr>
<td>Average Intake: 25</td>
</tr>
</tbody>
</table>
Year 1:
- History and Structure of Irish Education
- Principles of Second-Level Mathematics
- Introduction to Educational Sciences
- Practical Teaching Programme I
  (school placement component)
- Algebra and Analysis I and II
- Skills of Mathematics
- Introduction to Applied Mathematics I and II
- Skills of Applied Mathematics

Year 2:
- Philosophical Foundations of Education
- Mathematics Methodology and Skills of Teaching
- Practical Teaching Programme II
  (school placement component)
- Mechanics I
- Differential Forms
- Probability and Statistics
- Linear Algebra
- Geometry

Year 3:
- Curriculum and Assessment
- Practical Teaching Programme III
  (school placement component)
- Professional Studies: Integrated Project
- Psychology, Sociology and Catering for Diversity
- Research Literacies for Professional Development and
  Lifelong Learning
- Mathematical Modelling I
- Groups
- Discrete Mathematics
- Mechanics II
- Complex Analysis
- One Mathematics elective

Year 4:
- Block Teaching Practice (work placement component)
- Practical Teaching Programme: Integrated Project
- Final-Year Symposium
- Final Year Project in Mathematics plus four Mathematics
  electives or six Mathematics electives. Mathematics electives
  may include: Metric Spaces; Measure Theory; Applied
  Statistics; Topology; Advanced Statistical Methods for
  Business; Functional Analysis; Ring Theory; Fields and
  Applications; Cryptography; Advanced Group Theory;
  Mathematical Molecular Biology; Networks; Numerical
  Analysis; Mathematical Modelling II; Non-linear Systems

Further Study
As a BA (Mathematics and Education) graduate, you will be well positioned for further study in postgraduate programmes that focus on mathematics, statistics, applied mathematics and education.

Graduates have pursued, for example, the Master of Arts (Mathematics), the Master of Science in Business Analytics, and the Master of Economic Science (International Finance).

Alternatively graduates may pursue Master awards in Education including the Master of Education (MEd,) by research or the MEd (Design, Learning and Technology), MEd (School Leadership and MEd (Special and Inclusive Education).

Student Testimonial
"If you want to be a Maths teacher then this course is the one for you! Over the four years I spent in NUI Galway, I benefited from excellent teaching across both denominations of Maths and Education. The support from both denominations and the yearly placements really helped me to prepare for my chosen career in teaching. I really enjoyed my time on the BME course; others in my class went into industry or further study, but all of us agree that we'd love to be back at NUI Galway!"

Orlagh Nic Eoin – BA (Mathematics and Education) Class of 2018
Undergraduate Courses

GY133 BA Education (Computer Science and Mathematical Studies)

Why choose this course?

- This is a new course which allows you to combine the study of mathematics with computer science and post-primary teaching education.
- This is a four year concurrent initial teacher education programme and includes a number of school placement opportunities throughout the course.
- At the end of this four year course graduates will be eligible to teach computer science and mathematics.

<table>
<thead>
<tr>
<th>BA Education (Computer Science and Mathematical Studies)</th>
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<tbody>
<tr>
<td>CAO Code: GY133</td>
</tr>
<tr>
<td>Course Level: 8</td>
</tr>
<tr>
<td>Duration: 4 Years</td>
</tr>
<tr>
<td>Minimum Entry Points 2018: NA</td>
</tr>
<tr>
<td>Minimum A-Level Grades: See <a href="http://www.nuigalway.ie/alevels">www.nuigalway.ie/alevels</a></td>
</tr>
<tr>
<td>Leaving Certificate Entry Requirements: Minimum Grade H5 in two subjects and passes in four other subjects at O6/H7 level in the Leaving Certificate, including Irish, English, another language, and three other subjects recognised for entry purposes.</td>
</tr>
<tr>
<td>A H5 or O1 Grade in Mathematics is also a requirement.</td>
</tr>
<tr>
<td>A-Level/GCSE Entry Requirements: See website <a href="http://www.education.ie">www.education.ie</a></td>
</tr>
</tbody>
</table>

Work Placement

As part of this degree course you will undertake a school placement component each year. In total, each pre-service teacher will complete 100 hours teaching between years one and three, and 13 weeks in a second level school in year four of the programme.

Career Opportunities

Our graduates are keenly sought for teaching positions in Ireland and abroad. Opportunities outside of the teaching profession include further or higher education, academic or industrial research, ICT, finance and technology.
Your Course Year by Year

**Year 1:**
- Analysis and Algebra 1 & 2
- Mathematical Skills
- Computer Systems
- Programming I & II
- History and Structure of Irish Education
- Practical Teaching Programme 1
- Introduction to Educational Sciences
- Principles of Second-Level Mathematics

**Year 2:**
- Calculus 1
- Linear Algebra
- Statistics for Data Science 1 & 2
- Object Oriented Programming I & II
- Web-based Information Systems
- Practical Teaching Programme 2

**Year 3:**
- Discrete Mathematics
- Linear Algebra
- Systems Analysis & Design
- Database Systems I
- Curriculum and Assessment
- Research literacies for Professional Development and lifelong learning
- Practical Teaching Programme
- Professional Studies Integrated project
- Psychology, Sociology and Catering for diversity

**Year 4:**
- Complex Variables
- Geometry
- Calculus 2
- Multimedia Development
- Networks & Computer Communications
- Final Year Project
- Practical Teaching Programme: Integrated Project
- School Placement: Block Teaching Experience

Further Study

Graduates of this course will be well positioned for further study in postgraduate programmes that focus on education, mathematics and computer science.

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**Master of Education (MEd.)**
www.nuigalway.ie/courses/taught-postgraduate-courses/education-master.html

**Master of Science (Software Engineering and Database Technologies)**

**Postgraduate Diploma in Arts (Mathematics)**
www.nuigalway.ie/courses/taught-postgraduate-courses/arts-maths.html

**Master of Science in Business Analytics**
www.nuigalway.ie/courses/taught-postgraduate-courses/business-analytics.html

**Master of Economic Science (International Finance)**
www.nuigalway.ie/courses/taught-postgraduate-courses/international-finance.html
Professional Masters in Education (PME)

In preparing teachers for the post-primary sector, this programme aims to guide and facilitate student teachers initial entry into teaching and provide a solid theoretical foundation to support and aid their preparation for professional practice within the classroom.

Modules Include
- Professional Studies;
- Educational Sciences;
- Professional Practice/School Placement;
- Subject-Teaching Methodologies;
- Practitioner-Based Research;

Career Opportunities
This qualification in Initial Teacher Education at master’s level will qualify graduates for employment as post-primary teachers and is recognised in Ireland, Europe and non-EU countries.

<table>
<thead>
<tr>
<th>Professional Master of Education (PME)</th>
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<tbody>
<tr>
<td><strong>Duration:</strong> Two years full-time</td>
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<tr>
<td><strong>Fee:</strong> For up-to-date information on fees please consult the website. <a href="http://www.nuigalway.ie/student-fees/how-much/postgraduate-fees/">www.nuigalway.ie/student-fees/how-much/postgraduate-fees/</a></td>
</tr>
<tr>
<td><strong>Number of Places:</strong> 140</td>
</tr>
<tr>
<td><strong>Closing Date:</strong> 28th February 2019</td>
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<tr>
<td><strong>Enquiries to:</strong> Ms. Sinéad Coyne</td>
</tr>
<tr>
<td><strong>T:</strong> +353 91 492195</td>
</tr>
<tr>
<td><strong>E:</strong> <a href="mailto:education@nuigalway.ie">education@nuigalway.ie</a></td>
</tr>
<tr>
<td><strong>Entry Requirements:</strong> Primary degree Level 8</td>
</tr>
<tr>
<td><strong>Please Note Application Details:</strong> Applications for this course are through PAC</td>
</tr>
<tr>
<td><strong>Please visit:</strong> Visit <a href="http://www.pac.ie/pme">www.pac.ie/pme</a> for relevant course code</td>
</tr>
</tbody>
</table>
Máistir Gairmiúil san Oideachas (MGO)

Tugann an clár seo in oiliúint tosaigh múinteoirí ag leibhéal máistreachta cáiliocht múinteoireachta iar-bhunscoile do chéimithe atá aitheanta in Éirinn, san Eoraip agus taobh amuigh de sin. Tá ráta 100% fostaíochta bainte amach ag céimithe an MGO le blianta beaga anuas agus an-tóir orthu.

Struchtúr an Chláir

- Léann Gairmiúil
- Na hEolaíochtaí Oideachais
- Cleachtas Gairmiúil / Socrúchán Scoile
- T áighde Feidhmeach
- Sainmhodheolaíochtaí Ábhar

Máistir Gairmiúil san Oideachas (MGO)

Cód PAC: PEG02

Tréimhse /Duration: Dá bhliain lánaimseartha

Táillí / Fees: Théigh go dtí an suiomh thos is mairid le táillí agus maoiniú. www.nuigalway.ie/student-fees/how-much/postgraduate-fees/

Lión áiteanna: 40

Spárantachtaí: Tá sparánachtaí maoinithe ag an gComhairle um Oideachas Gaeltachta agus Gaelscolaíochta (COGG) d’archéimithe Eolaiscota, Mata & Teangacha na Mór-Roinne le tabhairt faoin Máistir Gairmiúil san Oideachas (MGO).

Spríodhcháta: 28 Feabhra 2019 (cuirfear síneadh ama leis seo más gá)

Sonrai Teagmhála:
Mary Dillon
T: +353 91 493711
E: mdillon@nuigalway.ie

Riachtanais iontrála: www.pac.ie

Comhairle maídir le h’iarratais: Déantar iarratas trí chóras PAC ag www.pac.ie Cód PEG02

Do Chúrsa: Clár lánaimseartha thor dhá bhliain an MGO agus iomlán trí mheán naGaeilge.

PLEASE NOTE/ TÁBHÁIR FAOI DEARA

Bursaries of €2000 are offered in association with An Chomhairle um Oideachas Gaeltachta agus Gaelscolaíochta (COGG), to encourage graduates of Science, Mathematics and Modern Languages to undertake the MGO programme. Tá sparánachtai €2,000 sa mbliain urraithe ag COGG do chéimithe le hEolaiscota, Mata agus Nuatheangacha na hEorpa.
The Master of Education in Design, Learning and Technology (LDT) is being introduced at a crucial time for educational technology in Ireland with the growth of coding and computational thinking (CT); the increased mobility and portability of technological devices; virtualisation and cloud infrastructures; and curricular developments in computer science and technology.

Concurrent with the development of their foundational understanding of how information communication technologies can be used to mobilise and augment learning, the programme will develop educators’ skills in the design, deployment and evaluation of coding and mobile learning within diverse educational contexts both formal and informal. The MEd (LDT) is open to all teachers and educators interested in technology-enhanced learning, irrespective of subject domain or educational sector. The course has been developed in response to current seminal, educational policy initiatives, including the Digital Strategy (2016), and new curricular developments, for example in computer science.

### M.Ed Learning Design Technology

**Duration:** Two years full-time

**Fee:** For up-to-date information on fees please consult the website. [www.nuigalway.ie/student-fees/how-much/postgraduate-fees/](http://www.nuigalway.ie/student-fees/how-much/postgraduate-fees/)

**Number of Places:** 15 (previous brochure 10)

**Closing Date:** 31st July 2019

**Enquiries to:**
Caroline Owens  
T: +353 91 494064  
E: caroline.owens@nuigalway.ie

**Entry Requirements:** Primary degree in education or cognate field, normally at honours level.

**Application Details:** Applications are via the NUI Galway Postgraduate Applications System. [www.nuigalway.ie/postgrad-admissions/](http://www.nuigalway.ie/postgrad-admissions/)
M.Ed School Leadership

This master’s programme is a one-year qualification for candidates who have completed either the PDSL or DGCS leadership Diploma. Course content will focus on qualitative and quantitative research approaches with a particular emphasis on critically identifying perspectives on researching school leadership. Students will complete a leadership focused dissertation that will provide an opportunity to demonstrate the ability to engage in primary research and consolidate the learning outcomes achieved in other modules on the PDSL/DGCS programme.

M.Ed School Leadership

Duration: One year part-time

Please Note: This one year part-time masters option is only available for applicants who who have completed either the PDSL or DGCS leadership Diploma and obtained a H2.1 award or higher.

Fee: For up-to-date information on fees please consult the website. www.nuigalway.ie/student-fees/how-much/postgraduate-fees/

Number of Places: 20

Closing Date: 31st July 2019

Enquiries to:
Mary Dillon
T: +353 91 493711
E: mdillon@nuigalway.ie

Entry Requirements: Candidates must have completed the PDSL/DGCS in order to be eligible to apply for this course. This is a one-year, top-up programme to enable graduates of the PDSL/DGCS to obtain a master’s qualification.

Application Details: Information and application form available and downloadable at www.education.ie

Postgraduate Diploma in School Leadership (PDSL) / Dioplóma Gairmiúil i gCeannaireacht Scoile (DGCS)

The Postgraduate Diploma in School Leadership (PDSL) / Dioplóma Gairmiúil i gCeannaireacht Scoile (DGCS) is designed to prepare aspiring for senior school leadership positions. The Professional Diploma in School Leadership is a part-time, 18 months postgraduate course. The programme will consist of six taught modules. The PDSL and the DGCS are both taught at NUI Galway.

This graduate diploma course is a collaborative initiative between UCD, UL and NUI Galway. The Administrative Centre for the programme is in UL – further information and details re the application process available at https://www.ul.ie/cpe/pdsl/#team

Applicants are advised to apply as soon as possible. The application system will CLOSE on March 30th 2019.

Find out more at: www.nuigalway.ie/courses/taught-postgraduate-courses/education-professional-master.html
The M.Ed (Special and Inclusive Education) offers teachers who have successfully completed the Postgraduate Diploma in Special Educational Needs, and obtained a H2.1 award or higher, the opportunity to continue their study and conduct educational research that will assist them further in effectively supporting students with special educational needs in their schools. On successful completion of the programme participants will be able to:

- Outline a range of research paradigms, and methodology in research on Special Education Needs (SEN);
- Identify, critically evaluate and justify an appropriate methodological strategy for proposed thesis/project;
- Analyse research data;
- Complete a SEN focused study that will provide an opportunity to demonstrate the ability to engage in primary research and consolidate the learning outcomes achieved in the other modules on the programme.

**M.Ed Special and Inclusive Education**

**Duration:** One year part-time

**Please Note:** This one year part-time masters option is only available for applicants who have successfully completed the PDip (Special Educational Needs), obtain a H2.1 award or higher.

**Fee:** For up-to-date information on fees please consult the website.

www.nuigalway.ie/student-fees/how-much/postgraduate-fees/

**Number of Places:** 15

**Closing Date:** 31st July 2019

**Enquiries to:**

Caroline Owens  
T: +353 91 494064  
E: caroline.owens@nuigalway.ie

**Entry Requirements:** Entry is restricted to teachers who have recently completed the Postgraduate Diploma in SEN and obtained a H2.1 award or higher.

**Application Details:** Information and application form available and downloadable at

www.education.ie
Graduate Diploma in Special Educational Needs

This programme aims to give teachers a thorough professional knowledge and understanding of special needs and learning difficulties, and to equip them with the necessary knowledge and skills to support the education of those with special needs and learning difficulties in various contexts. In doing so, the programme also aims to provide enjoyable and rewarding learning experiences and the ability to be responsive to learners’ needs.

The programme involves release from schools/centres for designated block periods of a total of eight weeks over the academic year, with substitute cover provided. In addition, some lectures and workshops take place on Saturdays. The programme also includes supervised work in teachers’ own schools/centres and a four-day placement in a special setting other than their own.

### Graduation Diploma in Special Educational Needs

- **Duration:** One year part-time
- **Fee:** For up-to-date information on fees please consult the website. [www.nuigalway.ie/student-fees/how-much/postgraduate-fees/](http://www.nuigalway.ie/student-fees/how-much/postgraduate-fees/)
- **Number of Places:** 30
- **Closing Date:** The closing date for completed applications is given on the DES circular.
- **Enquiries to:**
  Andrea Higgins
  T: +353 91 495 136
  E: andrea.higgins@nuigalway.ie
- **Entry Requirements:** To be eligible, applicants must be graduates and qualified teachers registered with the Teaching Council of Ireland. Further eligibility criteria are included in the DES circular.
- **Additional Qualifications:** Graduates who have completed this course and who have obtained a H2.1 award or higher are eligible to apply for the one year add on masters qualification.

Find out more at:
[www.nuigalway.ie/courses/taught-postgraduate-courses/education-professional-master.html](http://www.nuigalway.ie/courses/taught-postgraduate-courses/education-professional-master.html)
PhD & MLitt Programmes
The School of Education offers a range of PhD and MLitt programmes on a full and part-time basis. Applications are welcomed from suitably qualified individuals whose proposals align with the research expertise in the School. Our current research areas include: widening participation in higher education, diversity in initial teacher education, philosophy of education, psychology of education, special educational needs, gender and education, school leadership, learning design, mobile technologies in education, science education, and mathematics and computer science education.

PhD Programme
The Structured programme allows the student to combine a focused doctoral project, aimed at making an original and publishable contribution to knowledge, with a number of taught modules which support various aspects of the student’s research training and professional development. There is no formal taught element in the Traditional programme.

All PhD students work with a supervisor and have the support of a Graduate Research Committee (GRC). PhD students in the School of Education also benefit from additional seminars and workshops designed for doctoral students in Education.

PhD Programme

<table>
<thead>
<tr>
<th><strong>Duration:</strong> Four years, full-time. Six years, part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fee:</strong> Many PhD students can access funding for their doctoral studies, for up-to-date information on funding opportunities and on fees please consult the website. <a href="http://www.nuigalway.ie/economics/phd/funding/">http://www.nuigalway.ie/economics/phd/funding/</a></td>
</tr>
<tr>
<td><strong>Entry Requirements:</strong> Applicants will normally have a qualification at Master’s level (level 9, or equivalent international qualification) in education or a related area or, at minimum, a 2.1 in a primary honours degree (or equivalent international qualification). Admission to the PhD is at the discretion of the School of Education Research Committee and the potential supervisor.</td>
</tr>
<tr>
<td><strong>Application Details:</strong> Applications are via the NUI Galway Postgraduate Applications System. A Research proposal, writing sample, and two references are required. See: <a href="http://www.nuigalway.ie/postgrad-admissions/supportingdocuments/researchprogrammes">http://www.nuigalway.ie/postgrad-admissions/supportingdocuments/researchprogrammes</a> for further information. Completed applications are reviewed by the School of Education Research Committee. <strong>Structured:</strong> Apply by early July for entry in September of that year. <strong>Traditional:</strong> Applications may be made at any time.</td>
</tr>
</tbody>
</table>
Testimonial:

“...I completed my PhD part-time at the School of Education, National University of Ireland, Galway while working as a primary school teacher. The level of guidance and mentorship I received from my supervisors and Graduate Review Committee was exemplary. I received regular, constructive feedback on each phase of the research process in a collegial environment. I also had the opportunity to meet a wonderful community of fellow PhD candidates. Pursuing a doctoral degree has opened doors for me both nationally and internationally, including working as a Postdoctoral Researcher in Boston College, USA. For all of this, I am forever grateful.”

Una Ní Sheanáin | PHD (Eductaion) Graduate

MLitt Programme

Working with an individual supervisor, MLitt students undertake a focused and significant research project. MLitt students in the School of Education also benefit from seminars and workshops designed for research students in Education.

<table>
<thead>
<tr>
<th>MLitt Programme</th>
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<tbody>
<tr>
<td><strong>Codes:</strong> 1LT1 full-time; 1LT2 part-time</td>
</tr>
<tr>
<td><strong>Duration:</strong> Two years, full-time. Three-four years, part-time</td>
</tr>
<tr>
<td><strong>Fees and Funding:</strong> For up-to-date information on funding opportunities and on fees please consult the website. <a href="http://www.nuigalway.ie/student-fees/how-much/postgraduate-fees/">www.nuigalway.ie/student-fees/how-much/postgraduate-fees/</a></td>
</tr>
<tr>
<td><strong>Closing Date:</strong> Applications are considered on an ongoing basis in the School, please contact the School for further information.</td>
</tr>
<tr>
<td><strong>Entry Requirements:</strong> Applicants will normally have achieved a 2.1 in a primary honours degree (or equivalent international qualification). Admission to the MLitt is at the discretion of the School of Education Research Committee and the potential supervisor.</td>
</tr>
</tbody>
</table>
| **Application Details:** Applications are via the NUI Galway Postgraduate Applications System. A Research proposal, writing sample, and two references are required. See: [www.nuigalway.ie/postgrad/admissions/supportingdocuments/researchprogrammes/](http://www.nuigalway.ie/postgrad/admissions/supportingdocuments/researchprogrammes/) for further information. Completed applications are reviewed by the School of Education Research Committee. Applications may be submitted at any time.