DEAN’S MESSAGE

Thank you for your interest in what the National Institute of Education (NIE), Nanyang Technological University, Singapore, has to offer you in graduate studies and professional learning. Our institution has a strong reputation for evidence-informed higher degree, executive leadership and professional development programmes and courses. These are delivered through the Office of Graduate Studies and Professional Learning (GPL) with the support of the Academic Groups that represent a range of disciplines.

Our faculty members care deeply about teaching and learning. They are experts in education and many are also internationally renowned in their respective academic fields. Our aim is for our students and participants to become thought leaders, disciplinary experts and skilful researchers who can bring critical change in their respective professional contexts and academic fields. This aspiration is embodied in our philosophical statement of “Learning Differently, Leading Change”.

I wish you a fruitful time as you embark on the next stage of your lifelong learning journey.

Professor Christine C. M. Goh
Dean, Graduate Studies & Professional Learning
WHY NIE?

Teaching Talents

NIE is the heart of Singapore’s teacher education and education research. We are committed to delivering quality education for educators and providing an array of higher degree and professional courses for educators seeking further career advancement. We prepare educators from the initial teacher preparation through to the teacher professional development phase. We also provide quality graduate studies and lifelong learning to the public, partnering with them in developing new competencies.

Our faculty have over the years won numerous awards and accolades for excellence in teaching and research, as well as received prestigious fellowships and scholarships from international organisations.

In addition to our 12 Academic Groups’ academic staff who provide the disciplinary rigour and depth, NIE regularly invites distinguished professors to share their knowledge and expertise as well as to participate in collaborative projects. These professors hail from renowned universities such as Teachers College, Columbia University, Stanford University, Harvard Graduate School of Education, Boston College, University of Sydney, University of Toronto, University College London and the Hong Kong Institute of Education.

Global Partnerships

To broaden its reach in developing new competencies, NIE actively seeks strategic partnerships and collaborations with top institutes around the world. These global partnerships pave the way for research collaborations, staff and student exchanges and joint programmes for professional development and postgraduate research. These partnerships also provide the platform for NIE to keep abreast of global developments in the educational landscape and to share expertise.

NIE is also a founding member of the International Network of Educational Institutions (INEI), formerly known as International Alliance of Leading Education Institutes (IALEI). Established in 2007, the INEI is a consortium of 10 education institutes that seek to enhance the quality of education in their own countries and to provide leadership for educational development internationally. It acts as a think-tank which draws together existing expertise and research in education to generate ideas, identify trends, and serve as a collective voice on important educational issues, thus influencing policy and practice in education.

4 Graduate Studies & Professional Learning

5 Graduate Studies & Professional Learning
**Research Excellence**

Research excellence is a driving force that energises knowledge creation, making NIE a premier teacher education and research institute. Aspiring to be a world-class institute of higher learning, renowned for both its teacher education and education research, NIE has established two research centres.

**a. Centre for Research in Child Development (CRCD)**

The Centre for Research in Child Development (CRCD) was established in 2017 with funding from the MOE, Singapore. CRCD will conduct studies focusing on factors that influence the course of development from early to middle childhood, and what it takes for the Singapore child to develop optimally. The key areas of research include children’s development of linguistic and mathematical skills, executive and self-regulatory abilities, social-emotional skills, exceptional development and special needs, and intervention and translational science. A cornerstone of the centre is a cross-sequential longitudinal study that tracks children’s development across different cohorts. CRCD aims to have, in due course, population representative data on Singapore children’s development, locally validated diagnostic and research instruments, findings on the efficacy of existing interventions as well as novel interventions for children with poor cognitive or socio-emotional skills and sustained difficulties in language acquisition and mathematics.

**b. Centre for Research in Pedagogy and Practice (CRPP)**

Established in 2003, the Centre for Research in Pedagogy and Practice (CRPP) conducts leading education research that focuses on improving and sustaining student and teacher learning in Singapore schools. CRPP aims to conduct high-quality research and development programmes that are innovative, relevant, and responsive both locally and internationally. We also develop and seek to understand the nature and diffusion of pedagogical innovations in schools and other learning environments. Over the past decade, we have worked closely with the Ministry of Education, Singapore, schools and other stakeholders to generate rigorous and impactful school-based and system-level educational research that is cognizant of the sociocultural context of Singapore’s education system. In the process, we have developed and mentored the next generation of educational researchers to enhance NIE’s research capacities. Underlying our centre’s work are the core values of trust, respect and purposefulness.
## Higher Degree Programmes

NIE offers a wide range of higher degree programmes that can enhance your competence and knowledge as you strive to meet the new and changing demands of your career. These programmes have specially-designed curricula and are delivered through a schedule of lectures/seminars and tutorials.

<table>
<thead>
<tr>
<th>Masters Programmes (by Coursework and Research)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Research</strong></td>
</tr>
<tr>
<td>• Master of Arts (MA)</td>
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<tr>
<td>• Master of Science (MSc)</td>
</tr>
</tbody>
</table>

### Disciplinary Content
- MA (Applied Linguistics)
- MA (Humanities Education)
- MSc (Exercise & Sport Studies)
- MSc (Life Sciences)
- MSc (Mathematics for Educators)

### Education Domains
- MA (Art)
- MA (Chinese Language)
- MA (Curriculum & Teaching)
- MA (Developmental Psychology)
- MA (Drama)
- MA (Early Childhood)
- MA (Educational Assessment)
- MA (English)
- MA (High Ability Studies)
- MA (Learning Sciences & Technologies)
- MA (Malay Language)
- MA (Mathematics)
- MA (Music)
- MA (Primary)
- MA (Science)
- MA (Special Education)
- MA (Tamil Language)

### Professional Practice
- MA (Applied Psychology)
- MA (Counselling & Guidance)
- MA (Educational Management)
- MA (Instructional Design & Technology)
- MA (Leadership & Educational Change) – Joint programme with Teachers College, Columbia University
- MA (Teaching Chinese as an International Language)

### Doctoral Programmes
- Doctor of Philosophy (PhD)
- Doctor in Education (EdD)

### Duration and Mode of Study

<table>
<thead>
<tr>
<th>Programme</th>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA (Applied Linguistics)</td>
<td>1 - 2 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MA (Applied Psychology)</td>
<td>2 - 3 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MA (Counselling &amp; Guidance)</td>
<td>1.5 - 2 years</td>
<td>3 - 4 years</td>
<td>By Coursework</td>
</tr>
<tr>
<td>MA (Educational Management)</td>
<td>1 - 2 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MA (Humanities Education)</td>
<td>1 - 3 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MA (Instructional Design &amp; Technology)</td>
<td>1 - 2 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MA (Leadership &amp; Educational Change) – Joint programme with Teachers College, Columbia University</td>
<td>1 year</td>
<td>-</td>
<td>By Coursework</td>
</tr>
<tr>
<td>MA (Teaching Chinese as an International Language)</td>
<td>1 - 2 years</td>
<td>2 - 4 years</td>
<td>By Coursework</td>
</tr>
<tr>
<td>MA in Professional Education (Training &amp; Development)</td>
<td>1 - 2 years</td>
<td>2 - 4 years</td>
<td>By Coursework</td>
</tr>
<tr>
<td>Master of Education (MEd)</td>
<td>1 - 2 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MSc (Exercise &amp; Sport Studies)</td>
<td>1 - 3 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MSc (Life Sciences)</td>
<td>1 - 3 years</td>
<td>2 - 4 years</td>
<td>By Coursework or By Coursework with Dissertation</td>
</tr>
<tr>
<td>MSc (Mathematics for Educators)</td>
<td>1 - 3 years</td>
<td>2 - 4 years</td>
<td>By Coursework</td>
</tr>
<tr>
<td>MA (Research)</td>
<td>Up to 3 years</td>
<td>Up to 4 years</td>
<td>By Research</td>
</tr>
<tr>
<td>MSc (Research)</td>
<td>Up to 3 years</td>
<td>Up to 4 years</td>
<td>By Research</td>
</tr>
<tr>
<td>Doctor of Philosophy (PhD)</td>
<td>Up to 5 years</td>
<td>Up to 7 years</td>
<td>By Coursework with Dissertation</td>
</tr>
<tr>
<td>Doctor in Education (EdD)</td>
<td>Up to 5 years</td>
<td>Up to 7 years</td>
<td>By Coursework with Dissertation</td>
</tr>
</tbody>
</table>
BRIEF DESCRIPTIONS OF PROGRAMMES

a. Master of Arts (Applied Linguistics)

For Primarily for English language teaching professionals who wish to strengthen their academic qualifications for career advancement, but it is also suitable for people with a keen interest in language related issues.

Outline A broad-based course of study in the field of applied linguistics, mainly within the fields of language education and discourse studies, balancing theoretical knowledge with practical application.

b. Master of Arts (Applied Psychology)

For Psychologists, counsellors and educators who are motivated to acquire knowledge and skills in the field of psychological service.

Outline Gain theoretical knowledge, research insights and practical skills to train as specialists in the field of Educational Psychology or Counselling Psychology.

c. Master of Arts (Counselling & Guidance)

For New entrants into the fields of counselling and guidance, and professional counsellors seeking higher qualification to be a highly competent and caring counsellor.

Outline Gain skills and knowledge in various counselling core areas, appreciate diversity, understand ethical and legal issues, and learn to apply theories and techniques, thus leading to effective individual and group counselling.

d. Master of Arts (Educational Management)

For Educational leaders and professionals who wish to develop their skills and knowledge required to lead schools to new realms of educational excellence.

Outline It equips candidates with the necessary knowledge, skills and capability to lead their organisations effectively at a time of rapid change. It also provides an excellent opportunity for in-depth study of some of the key strategic and current issues in the management of education and training programmes.

e. Master of Arts (Humanities Education)

For Humanities educators and educational leaders who are interested in advancing their professional knowledge through disciplinary and interdisciplinary explorations of humanities education.

Outline Extensive range of courses focused on both classroom pedagogy and disciplinary content relevant to History, Geography and Social Studies educators and curriculum specialists.

f. Master of Arts (Instructional Design & Technology)

For Educators and professionals who wish to enhance their capacities in instructional design and technology in corporate training/industry settings, and those who wish to advance their capacities with a focus on technology-enhanced learning in formal education institutions.

Outline Specifically concerned with solving instructional problems, as well as the application, development, and management of various information technologies, including e-learning.
g. Master of Arts (Leadership and Educational Change) - Joint programme with the Teachers College, Columbia University

For Educators and educational leaders who are interested to learn about the interrelationships between curriculum, leadership and change and who aspire to lead curriculum, innovation and educational change in schools and other organisations.

Outline The programme has a dual focus on organisational and curriculum leadership. It aims to prepare educational leaders to go beyond organisational leadership towards embracing leadership capacities in curriculum, teaching and learning. Opportunities are provided to build new cross-national learning communities and fraternities steeped in both local and global perspectives.

h. Master of Arts (Teaching Chinese as an International Language)

For Educators who desire to specialise in the theory and practice of teaching Chinese as a foreign/second/international language to learners whose first language is English (CIL learners).

Outline The programme is NIE’s strategic response to the sharp increase in demand within the international market for more educators who are properly trained to teach Chinese in English-speaking regions. Some key programme features include an introduction to the correct use of English as an aid to help the learners master Chinese and a combination of theory and practice, emphasising classroom training to ensure graduates are competent in teaching Chinese in an English language teaching environment.

i. Master of Arts in Professional Education (Training & Development)

For Experienced professionals involved in staff development, facilitating Professional Learning Communities (PLCs), mentoring and coaching, managing training and professional development organisations, managing teams of adult educators, leading adult education project teams, policy-making for institutions and professional bodies and researching in higher education, and adult and lifelong learning.

Outline This programme aims to provide a rigorous understanding of educational practices and systems from social, philosophical, psychological, cross-national and normative perspectives. It also seeks to foster an understanding of central issues in learning and development, education and training, and educational leadership in the various professional contexts. Its specific objective is to educate professional educators with values and beliefs as well as equipping them with a distinct set of skills to drive mentoring and coaching, innovative training, assessment and design practices.
n. Master of Arts
  p. Master of Science
  o. Doctor of Philosophy (PhD)

For Those who would like to do focused research on a topic in the areas of Arts and Humanities, Education, Sciences and Physical Education.

Outline You will have to complete a fixed number of courses that can contribute to your understanding of the field and the methodology relevant to your study. Guided by a research-active supervisor, you will develop advanced skills and knowledge to address and investigate academic discipline-related or educational problems and issues.

q. Doctor in Education (EdD)

For Professionals who would like to extend their expertise and training, as well as develop skills in research, evaluation and reflection on practice.

Outline EdD has the rigour and expectations of a PhD, but with a professional focus. One of the major aims of the EdD is to develop professional leaders who are able to identify and solve complex “field based” problems. Professional doctorates stress the application of research, development of professional knowledge and creation of knowledge within the profession.

l. Master of Science (Life Sciences)

For Educators, science graduates or professionals interested in life sciences, by addressing not only the knowledge base, but also the necessary experimental skills required.

Outline Without sacrificing the necessary breadth and depth of the multi-disciplinary nature of the life sciences, we offer you a highly personalised roadmap in which the most recent scientific developments are taught, and social and bioethical issues are discussed. The programme offers five areas of specialisation in:
  • Applied Plant Sciences
  • Chemistry
  • Clean Energy Physics
  • Environmental Science
  • Zoological Sciences

m. Master of Science (Mathematics for Educators)

For Mathematics educators and other professionals.

Outline This programme differentiates itself from others in that the acquisition of wide and in-depth knowledge in mathematics is emphasised along with its connection to mathematics teaching.
TOEFL / IELTS / GRE Requirements
International applicants whose first language is not English and graduates of universities with non-English medium of instruction are required to submit an official Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) score. Test dates must be within the last two years before the date of your application.

Applicants pursuing research programmes, except for graduates of the Autonomous Universities in Singapore, are required to submit a good Graduate Record Examination (GRE) score. In lieu of GRE, applicants from India may use the Graduate Aptitude Test in Engineering (GATE) score of at least 90%.

Notes to Education Officers of Ministry of Education, Singapore
The Enhanced Professional Development Continuum Model (Enhanced PDCM) is a Master's degree scheme that provides graduate education officers with alternative pathways to higher certification as well as motivation for keeping themselves relevant in knowledge and pedagogy. The scheme is available for most of our Master's degree programmes and was developed in collaboration with MOE, Singapore.

When to Apply
There are two intakes a year (January and August). Please note that not all programmes and specialisations are available for application for each intake.

For Coursework programmes, applications will open in May/June for admission in January in the following year and in November/December for admission in August the following year.

Research programmes have two intakes a year (January and August). Applications will open in May and October respectively for about two months before the cut-off date for submission of application for each intake in January and August.

For the EdD programme, application is open in April for admission in January the following year.

It is important for the applicant to check the NIE’s website and other relevant media regularly to confirm if the programmes will be open for application at any particular intake.

Fees
Our tuition fees are subject to revision every academic year. For more information on the current tuition fees, please visit www.nie.edu.sg/gpl/fees.htm

Further Queries
For more information, please visit www.nie.edu.sg/gpl/hd or e-mail us at nieadmpp@nie.edu.sg and higherdegrees@nie.edu.sg
LEADERSHIP PROGRAMMES

Leadership learning is an integral part of the education system. The purpose of leadership learning is to develop school leaders’ capacity to meet the challenges of the complex and dynamic education system. One of our flagship programmes, Leaders in Education Programme has won admiration from educators in many parts of the world. It is a huge resource investment on the part of Singapore, as the nation’s leaders believe that high quality school leadership learning will enable its school leaders to lead schools to new levels of educational excellence.
BRIEF DESCRIPTIONS OF PROGRAMMES

a. Leaders in Education Programme

For Specially selected vice-principals and ministry officers in Singapore to prepare them for school leadership.

Outline The programme aims to develop principalship capability that is values-based, purposeful, innovative and forward-looking. It anchors on strong people leadership, strategic management skills and an appreciation of how principals could work effectively in a complex environment.

b. Management and Leadership in Schools Programme

For Middle level leaders who want to expand their roles beyond departments and take on direct leadership for teaching and learning in school.

Outline The programme aims to create new knowledge in generative and collaborative learning and beyond single discipline/subject. It enhances capacity of the middle level leaders to lead teaching and learning through the creation of learning teams with the focus on continual improvement in the curriculum and to develop them to better support their principals in school reform.

c. Building Educational Bridges: Innovation for School Leaders

For Selected school leaders to engage in issues relating to the countries’ unique educational systems.

Outline The programme is jointly conducted at both NIE and various international institutions. It focuses on innovative and high performing education systems and offers experienced and successful school leaders the opportunity to explore key leadership issues in national and international contexts.

APPLYING TO OUR LEADERSHIP PROGRAMMES

Our leadership programmes are mainly open to officers nominated by the Ministry of Education (MOE), Singapore. Non-MOE participants who wish to attend any of our leadership programmes may write in directly to us at leadership.programmes@nie.edu.sg.

Further Queries
For more information, please visit www.nie.edu.sg/gspl/l or e-mail us at leadership.programmes@nie.edu.sg.
PROFESSIONAL DEVELOPMENT PROGRAMMES AND COURSES

We offer courses for professional development, some of which can be accredited into our Advanced Diploma programmes. Designed and developed in collaboration with the Ministry of Education, Singapore, these courses can be broadly categorised as follows:

- Pedagogical Skills
- Content Knowledge

Our range of Advanced Diploma programmes is as follows:

- Advanced Diploma in Primary Art Education
- Advanced Diploma in Primary English Language Education
- Advanced Diploma in Primary Mathematics Education
- Advanced Diploma in Primary Music Education
- Advanced Diploma in Primary Science Education
- Advanced Diploma in Special Learning and Behavioural Needs
- Advanced Diploma in Teaching Early Primary School Years
- Advanced Diploma in Special Education
BRIEF DESCRIPTIONS OF PROGRAMMES

a. Advanced Diploma in Primary Art Education
   For Primary Art teachers
   Outline It provides teachers with a framework of knowledge and skills in art; provides perspectives on the change and development of theories and trends in art and art education for teachers to reflect, re-examine and to draw inferences about their classroom practices; and enables teachers to develop competencies in the evaluation and planning of effective art curriculum and programme in their schools.

b. Advanced Diploma in Primary English Language Education
   For Primary English Language teachers
   Outline It provides teachers with a framework of knowledge and skills in teaching primary English language; provides perspectives on the change and development in the primary English language curriculum for teachers to reflect, re-examine and refine their classroom practices; and enables teachers to develop competencies in the design and practice of assessment and evaluation.

c. Advanced Diploma in Primary Mathematics
   For Primary Mathematics teachers
   Outline It provides teachers with a framework of knowledge and skills in the teaching of primary mathematics; provides perspectives on the change and development in primary mathematics curriculum for teachers to reflect, re-examine and refine their classroom practices; and enables teachers to develop competencies in the design and practice of assessment and evaluation.

d. Advanced Diploma in Primary Music Education
   For Primary Music teachers
   Outline It provides teachers with a framework of knowledge and skills in music; apprises music teachers of current thinking and practice in music and music education that will provide opportunities for teachers to reflect on and re-examine their classroom practices; and enables teachers to develop competencies in the evaluation and planning of effective music curricula and programmes in their own schools.

e. Advanced Diploma in Primary Science Education
   For Primary Science teachers
   Outline It provides a framework of knowledge and skills in the teaching of primary science; provides perspectives on the change and development in primary science curriculum for teachers to reflect, re-examine and refine their classroom practices; and enables teachers to develop competencies in the design and practice of assessment and evaluation.

f. Advanced Diploma in Special Learning and Behavioural Needs
   For Educators interested in special learning and behavioural needs
   Outline It provides a framework of knowledge and skills and inculcates attitudes which are important to the education of students with special needs; examines the range of factors that facilitate or hinder the learning of a student with special needs in mainstream schools; enables educators to develop competencies in assessing, planning, implementing, and evaluating programmes for students with special needs; and provides educators with basic knowledge and skills for supporting students with various types of disabilities.

g. Advanced Diploma in Teaching Early Primary School Years
   For Primary School teachers with 3 years of experience teaching lower primary levels
   Outline Closely coordinated with various MOE initiatives, this programme seeks to develop professional competence and expertise in teaching lower primary children. It will help teachers understand how children learn and develop; create a learning environment to keep children safe and support engaging activities that promote quality learning; develop effective and age-appropriate strategies to promote children’s learning; understand goals, benefits and uses of systematic observations and varied forms of assessment to impact the development of children; understand strategies of family and community engagement to promote positive learning outcomes for children; deepen their understanding of how children's language skills and numeracy develop in the lower primary and to develop engaging teaching and learning activities to foster these skills; and to broaden their leadership potential and expand their professional confidence and impact as teacher leaders.
h. Advanced Diploma in Special Education

For Allied Educators and teachers from Special Schools who hold the one year Diploma in Special Education programme.

Outline This programme will focus on enhancing the capacities, skills and practices of the Allied Educators (Learning and Behavioural Support) and Special School Teachers using a “reflective-practitioner” and “concerns-based” approach to develop appropriate classroom-based and school-level supports for pupils with special needs in either mainstream or special schools.

PROFESSIONAL DEVELOPMENT PATHWAY

Since April 2013 NIE has introduced new professional development pathways for individuals who wish to pursue their professional development aspirations and receive recognition for their learning experience. The pathway describes multiple options for individuals keen on professional learning opportunities at a graduate level. More information can be found at www.nie.edu.sg/pd-hd-pathway/

APPLYING TO OUR PROFESSIONAL DEVELOPMENT PROGRAMMES AND COURSES

Our formal certification programmes are mainly open to participants from the Ministry of Education (MOE), Singapore. For MOE participants, you are advised to apply via TRAISI or register directly with us (for courses with no TRAISI codes).

Our short courses are open to MOE, Singapore, and members of the public. You are advised to check our website regularly for updates of such courses.

Further Queries
For more information, please visit www.nie.edu.sg/gpl/pd or e-mail us at inservice@nie.edu.sg.
OFFICE OF GRADUATE STUDIES & PROFESSIONAL LEARNING
Learning Differently, Leading Change