

Nanyang Technological University
National Institute of Education
1 Nanyang Walk
Singapore 637616
Republic of Singapore
Telephone: 67903888
Fax: 68969274

NTU Reg. No. 200604393R

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ENQUIRIES

Please direct all enquiries on admission to courses/programmes offered by NIE to:

For initial teacher preparation programmes:

Head
Foundation Programmes Administration
Foundation Programmes Office
Nanyang Technological University
National Institute of Education
1 Nanyang Walk
Singapore 637616

For further teacher training and higher degree programmes:

Dean
Graduate Programmes & Research
Nanyang Technological University
National Institute of Education
1 Nanyang Walk
Singapore 637616

or visit the NIE homepage at:

<http://www.nie.edu.sg>

Because of the large number of candidates seeking admission, we regret that we are unable to entertain telephone or personal enquiries.

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The information in this handbook is based on information available at the time of publication. The Institute reserves the right to make alterations without notice.

National Institute of Education

Establishment

The National Institute of Education (NIE) was established on 1 July 1991 as an institute of the Nanyang Technological University (NTU).

NIE's Vision

To be an Institute of Distinction

NIE's Mission

To excel in teacher education and educational research

Objectives

- to equip teachers and school leaders with the knowledge and professional expertise necessary to teach and manage educational programmes in challenging school environments
- to provide academic programmes at all levels in Education, Physical Education and Sports Science, the Arts and Sciences
- to undertake and promote research in Education, Physical Education and Sports Science, the Arts and Sciences, and other disciplines relevant to teacher training
- to offer continuing education and professional development programmes to meet the needs of other government bodies and the general public.

Courses/Programmes

The Institute offers a variety of courses/programmes leading to a range of qualifications from diplomas to bachelor degrees to postgraduate degrees.

The four-year bachelor degree programmes aim to provide rigorous university education and to produce graduates with the skills to teach in schools. The programmes lead to the award of the following degrees:

- **Bachelor of Arts (Education) [BA (Ed)]**

- **Bachelor of Science (Education) [BSc (Ed)]**

Candidates may be awarded honours degrees based on excellent overall performance in the four year programmes.

Other programmes of initial teacher-training lead to the award of the following qualifications:

- **Postgraduate Diploma in Education [PGDE]**

(which qualifies a university degree holder to join the teaching profession and which has several specialisations, namely, secondary school teaching, primary school teaching and teaching of Physical Education)

- **Diploma in Education [Dip Ed]**

(which qualifies GCE 'A' level holders, Polytechnic Diploma holders and GCE 'O' Level holders (after completing a two-year preparatory course conducted by NIE) to teach in primary schools [for Dip Ed(General) and Dip Ed(Chinese/Malay/Tamil)] and in secondary schools [for Dip Ed (Art/ Music/ Malay/Tamil Specialisation)])

- **Diploma in Physical Education [Dip PE]**

(which qualifies GCE 'A' level holders and Polytechnic Diploma holders to teach Physical Education in primary schools.)

- **Diploma in Art/Music/Home Economics Education [Dip Art/Mus/HE Ed]**
(which qualifies holders of diplomas from the polytechnics, the Nanyang Academy of Fine Arts or the LaSalle-SIA College of the Arts to teach Art, Music or Home Economics in secondary schools)

- **Diploma in Special Education [DISE]**
(which qualifies nominated teachers of special education organisations and special needs officers of the Ministry of Education to teach special needs children in organisations and schools)

The Institute also conducts formal professional programmes for practising teachers. These include the:

- **Diploma in Departmental Management [DDM]**
(which provides training for teachers to function as effective Heads of Departments in their schools)

- **Senior Teachers Programme [STP]**
(a professional development course for senior teachers)

- **Advanced Senior Teachers Programme [ASTP]**
(a professional development course for senior teachers to take on higher leadership responsibilities)

- **Leaders in Education Programme [LEP]**
(designed to prepare education officers for school principalship)

- **Leader for Leaders Programme [LLP]**
(an advanced executive programme for senior leaders)

Higher Degrees by Research

In line with the increasing emphasis on research in the Humanities, Sciences, Education and Physical Education, the Institute also offers higher degree studies by research leading to the degrees of:

- **Doctor of Education**
- **Doctor of Philosophy (Humanities, Education, Sciences and Physical Education)**
- **Master of Arts (Humanities, Education and Physical Education)**
- **Master of Science (Sciences and Physical Education)**

In addition to the above programmes, the Institute offers the following Master's programmes:

Master's programme (either by Coursework with Dissertation or by Coursework Only)

- **Master of Arts (Applied Linguistics)**

This programme focuses on the needs of English Language teachers and other professionals working in the field of language and language education. The programme balances coverage of theoretical knowledge and practical application. Participants will critically review current research in applied linguistics and develop specialised knowledge in the theory and practice of language education and use. They will also have opportunities to apply their new knowledge in their professional contexts and develop skills for synthesis and evaluation of relevant literature. As part of their overall professional development, they will learn relevant skills for conducting small-scale action research.

- **Master of Arts (Educational Management)**

This is an executive programme designed to enhance the leadership capability of school executives and managers of other educational sectors to add value to the continuous development of human resources in their organisations. It aims to enable

aspiring leaders in education to become more informed about critical issues in educational management, and to cope positively and effectively with the management challenges that are currently impacting on education.

■ **Master of Arts (Instructional Design & Technology)**

This programme is designed for educational and training professionals working in schools, universities, polytechnics, businesses, industries and e-learning industries. The participants will learn about the design, application, development and management of information technologies (including the use of e-learning), as well as theoretical underpinnings of designing learning environments. The programme aims to impart to participants the theoretical knowledge and practical skills in solving real-world instructional and performance problems, employing a variety of learning modalities. Participants typically include school's Head of Department IT or IT co-ordinators, corporate trainers, instructional software developers, managers of e-learning environments, and other educational and training professionals.

■ **Master of Arts (Social Studies)**

This is a programme which can support teachers who may need to respond with cross-disciplinary perspectives in the disciplines of history, geography and social studies. The goal is to help the participants to develop a critical understanding of social studies, history and geography with a strong grounding in the philosophies that have guided both scholarship and the development of each of the relevant disciplines and how these can be applied to the study of the social issues of our time.

While the programme is designed for those who have relevant background knowledge in one or more of the following disciplines and school subjects such as geography, history and social studies, it is tailored for participants who wish to broaden their multi-disciplinary perspectives on the development of our societies in space and time.

■ **Master of Education**

This programme is primarily designed for teachers and colleagues working for the Ministry of Education. It provides participants with an opportunity to explore the latest issues in education and to investigate important issues associated with their educational environment.

There are 18 areas of specialization. This allows participants to choose the area that best fits their interest as well as career path, whether that path is towards the Master Teacher track, Specialist Track, or a general desire to update knowledge and skills.

The specialisations are Art Education; Chinese Language Education; Curriculum and Teaching; Drama Education; Early Childhood Education; Educational and Psychological Measurement and Evaluation; English Language Education; English Literature; Gifted Education; Learning Sciences & Technologies; Malay Language Education; Mathematics Education; Music Education; Primary Education; Science Education; Secondary Education; Special Education; and Tamil Language Education.

■ **Master of Science (Exercise & Sport Studies)**

This programme is designed for participants with an interest generally in human movement studies, including physical education, sport, fitness, health and wellness. The subjects enable participants to work with the faculty in areas of particular interest and to complement these interest areas with related subjects from the Physical Education and Sports Science Academic Group as well as across the university. Participants will acquire research skills (both qualitative and quantitative) which will encourage critical inquiry and creative thinking in dimensions of the human movement sciences.

■ **Master of Science (Life Sciences)**

This programme is tailored to meet the needs of working teachers, science graduates or professionals interested in the life sciences. It is designed and mass-customised in manageable subjects to suit the applicant's previous educational background.

It aims to provide teachers and science graduates with specialised knowledge in the fields of life sciences – specifically in the areas of Physics, Chemistry, the Environment, Animal and Plant Sciences - by addressing not only the knowledge base, but also the necessary experimental skills required. Without sacrificing the necessary breadth and depth of the multi-disciplinary nature of the life sciences, the participant is offered a highly personalised roadmap in which the most recent scientific developments are taught, and social and bioethical issues are discussed.

As participants receive training in the basic concepts, conduct experiments and projects under experienced and highly qualified scientists, they are given the opportunity to interact and explore vast new realms in the life sciences.

There are 5 areas of specialization, namely Applied Physics; Applied Plant Sciences; Chemistry; Environmental Sciences and Zoological Sciences.

Master's Programme (by Coursework only)

■ Master of Science (Mathematics for Educators)

This programme emphasises the acquisition of wide and in-depth content knowledge in mathematics as well as its linkage to mathematics teaching. Candidates will have the opportunity to study subjects in different areas of mathematics, conducted by active working mathematicians, many of them holding a qualification in teaching of mathematics.

A strong mastery of mathematics will enable educators to teach better and to promote higher order thinking among students in the learning of mathematics. Mathematics specialists in education institutes will also benefit from this programme because a good understanding of mathematics is crucial for handling various tasks related to mathematics education, such as the design of contemporary and rigorous curriculum, assessment of mathematics learning, and development of teaching resources.

Master's Programme (by Coursework with Dissertation)

■ Master of Arts (Applied Psychology)

This programme is designed to provide theoretical knowledge, research insights and practical skills to individuals who have the pre-requisite qualifications to train as specialists in the field of Educational Psychology or Counselling Psychology.

The Institute also offers the following Advanced Diploma and Advanced Postgraduate Diploma programmes:

ADVANCED DIPLOMA PROGRAMMES

■ **Advanced Diploma in Chinese Language Education**

Designed to provide teachers with in-depth training in the knowledge of Chinese language and literature, enhancement in the communicative skills in teaching Chinese Language and professional development in pedagogy for teaching Chinese Language.

■ **Advanced Diploma in Drama and Drama Education**

Designed to provide primary, secondary and college teachers who are interested in drama and drama education with an understanding of the issues and practices that will enable them to work within schools using drama as a pedagogical method and as a means of making theatre.

■ **Advanced Diploma in English Language**

Designed to provide teachers with a deeper understanding of developments in the teaching and learning of English, exploring integrative approaches to the teaching and learning of English and appropriate strategies for teaching English.

■ **Advanced Diploma in Guidance and Counselling**

Designed to provide teachers with in-depth training in guidance and counselling and skills in planning, co-ordinating, guiding and evaluating counselling programmes.

■ **Advanced Diploma in Malay Language Education**

Designed to enhance teachers' knowledge of the Malay language especially in Higher Malay, the appreciation of the Malay literature, culture and history. Besides keeping abreast of

the latest developments in Malay pedagogy, teachers will also be able to acquire practical skills in setting papers, marking and correcting pupils' compositions.

■ **Advanced Diploma in Primary Art Education**

Designed to address the pedagogical needs and studio experience required of primary art teachers, by developing specialized approaches to art practices and providing opportunities for reflection on current educational issues.

■ **Advanced Diploma in Primary Mathematics Teaching**

Designed to provide teachers with in-depth training in primary mathematics teaching and skills in planning, co-ordinating, guiding and evaluating the mathematics curriculum.

■ **Advanced Diploma in Primary Music Education**

Designed to provide teachers with in-depth training in primary music teaching and skills in planning and organising music curriculum for schools.

■ **Advanced Diploma in Primary Social Studies**

Designed to provide teachers with in-depth training in Primary Social Studies teaching and skills in planning, co-ordinating, guiding and evaluating the Social Studies curriculum.

■ **Advanced Diploma in Science**

Designed to provide teachers the opportunities to learn and explore recent knowledge and developments in the biological and physical sciences and their applications to everyday life. To further develop skills and knowledge needed for teaching primary science in the changing educational landscape.

- **Advanced Diploma in Special Learning and Behavioural Needs**

Designed to provide teachers with in-depth training in how to meet the variety of special learning and behavioural needs of pupils in schools as well as how to assess, plan, implement and evaluate programmes.

- **Advanced Diploma in Teaching**

Designed to offer teachers the opportunity to customize their own learning, based on their instructional needs and interests in different schools, and across at least two subject areas within the primary school curriculum. It also offers them a greater scope of elective modules otherwise unavailable within disciplinary Advanced Diplomas.

- **Advanced Diploma in Teaching Pupils with High Ability**

Designed to provide teachers with in-depth knowledge of the skills required to create a differentiated curriculum as well as the teaching strategies that can be used to meet the needs of highly able learners.

The Institute also offers the following Certificate (In-service) Programmes to nominated teachers of the Ministry of Education owing to new initiatives from the Ministry of Education e.g. to enable teachers to teach pupils with special needs and also to teach pupils with high ability.

- **Certificate in Special Needs Support Programme**

Designed to provide teachers with training on how to cater to children with special needs within mainstream settings and also to acquire an understanding of what constitutes special needs.

■ **Certificate in Teaching Pupils with High Ability**

Designed to provide teachers with an understanding of the needs of High Ability pupils and on developing innovative teaching strategies and various ways to develop students' potential and talents.

The Institute also offers the following Diploma (In-service) Programmes to nominated teachers of the Ministry of Education in the area of school needs e.g. to have a full time school counselor in every school; and to have trained teachers with a general diploma in education to teach Physical Education at primary level.

■ **Diploma in School Counselling**

Designed to train personnel to become full time school counsellors. The participants will be able to perform school counsellors' role in guidance and counseling in schools, use individual counselling skills and group guidance to assist school pupils, able to work with teachers, parents and other professionals to effectively enhance pupils' learning and development.

■ **Diploma in Physical Education**

Designed to develop professional competence and expertise in teaching Physical Education as a major subject. It enables teachers to follow an academic and knowledge-based approach to Physical Education.

ADVANCED POSTGRADUATE DIPLOMA PROGRAMMES

■ **Advanced Postgraduate Diploma in Chinese Language and Literature**

Designed to upgrade the standard of our Chinese Language teachers. This programme is targeted primarily at potential student teachers admitted to the PGDE (Pri) (Chinese

Specialization) on a probationary basis and in-service Chinese Language teachers with a PGDE (Pri) (Chinese Specialization).

■ **Advanced Postgraduate Diploma in Drama and Drama Education**

Designed to provide understanding of the issues and practices that will enable participants to work within schools using drama as a pedagogical tool and a means of making theatre. Aspects of theory and practice will be explored within workshop teaching sessions, with opportunities to improve performing and facilitating skills.

■ **Advanced Postgraduate Diploma in Design and Technology Education**

Designed to broaden their knowledge of the trends, issues and practices in Design and Technology (D&T) education both locally and globally with particular reference to secondary school pupils' holistic education and to develop professional practice and a deeper understanding of programme design in line with syllabus requirements, emerging technologies, D&T philosophies and educational reforms and initiatives.

■ **Advanced Postgraduate Diploma in Guidance and Counselling**

Designed to provide teachers with in-depth training in guidance and counselling and skills in planning, co-ordinating, guiding and evaluating counselling programmes.

■ **Advanced Postgraduate Diploma in Learning Sciences and Technologies**

Designed to provide teachers with knowledge and training in teaching, training and curriculum design with the use of learning sciences and technologies.

- **Advanced Postgraduate Diploma in Life Sciences**

Designed to provide teachers with in-depth training in the life sciences and their applications to everyday life as well as integrative approaches for the teaching and learning of the life sciences in schools.

- **Advanced Postgraduate Diploma in Primary Social Studies**

Designed to provide teachers with in-depth training in Primary Social Studies teaching and skills in planning, co-ordinating, guiding and evaluating the Social Studies curriculum.

- **Advanced Postgraduate Diploma in Special Learning and Behavioural Needs**

Designed to provide teachers with in-depth training in how to meet the variety of special learning and behavioural needs of pupils in schools as well as how to assess, plan, implement and evaluate programmes.

- **Advanced Postgraduate Diploma in Upper Secondary Social Studies**

Designed to provide teachers with in-depth training in Upper Secondary Social Studies teaching and skills in planning, co-ordinating, guiding and evaluating the Social Studies curriculum.