

**PGDE PROGRAMME
TEACHING AT PRIMARY LEVEL**

CURRICULUM STRUCTURE

The curriculum structures for various strands of the PGDE (Primary) programme are shown in Tables 2 and 3 below:

Table 2: Curriculum Structure of the PGDE (General, Primary) Programme

Category/ Subject	Course Code	Title	No. of AUs
EDUCATION STUDIES			
	QED501	Educational Psychology I: Theories and Applications for Learning and Teaching	2
	QED502	Educational Psychology II: Providing for Individual Differences in Learning and Teaching and Classroom Management	2
	QED503	ICT for Engaged Learning	2
	QED504	The Social Context of Teaching and Learning	2
CURRICULUM STUDIES (Select one from options A, B and C)			
Option A (Select 2 Curriculum Studies areas)			
Art	QCA501	Working with Two-Dimensional Artistic Processes	3
	QCA502	Teaching of Art at Primary level	2
	QCA503	Working with Three-Dimensional Artistic Processes	3
English Language	QCE501	Teaching Reading and Writing	6
	QCE502	Teaching Oral Communication	2
Mathematics	QCM501	Teaching and Learning of Primary Mathematics I	6
	QCM502	Teaching and Learning of Primary Mathematics II	2
Music	QCI501	Music Curriculum I	3
	QCI502	Music Curriculum II	3
	QCI503	Music Curriculum III	2
Science	QCS501	Curriculum and Pedagogy for Primary Science	3
	QCS502	Assessment Modes and Resource Management in Primary Science	3
	QCS503	Innovations in Design and Practices for Primary Science	2
Social Studies	QCL501	Teaching Social Studies in the Primary Classroom I	4
	QCL502	Teaching Social Studies in the Primary Classroom II	2
	QCL503	Managing Diversity in the Social Studies Classroom	2

Cont'd

Category/ Subject	Course Code	Title	No. of AUs
Option B			
English Language	QCE501	Teaching Reading and Writing	6
	QCE502	Teaching Oral Communication	2
Mathematics	QCM501	Teaching and Learning of Primary Mathematics I	6
	QCM502	Teaching and Learning of Primary Mathematics II	2
Option C (Select 3 Curriculum Studies areas)			
Art	QCA501	Working with Two-Dimensional Artistic Processes	3
	QCA502	Teaching of Art at Primary level	2
	QCA503	Working with Three-Dimensional Artistic Processes	3
English Language	QCE501	Teaching Reading and Writing	6
	QCE502	Teaching Oral Communication	2
Mathematics	QCM501	Teaching and Learning of Primary Mathematics I	6
	QCM502	Teaching and Learning of Primary Mathematics II	2
Music	QCI501	Music Curriculum I	3
	QCI502	Music Curriculum II	3
	QCI503	Music Curriculum III	2
Science	QCS501	Curriculum and Pedagogy for Primary Science	3
	QCS502	Assessment Modes and Resource Management in Primary Science	3
	QCS503	Innovations in Design and Practices for Primary Science	2
Social Studies	QCL501	Teaching Social Studies in the Primary Classroom I	4
	QCL502	Teaching Social Studies in the Primary Classroom II	2
	QCL503	Managing Diversity in the Social Studies Classroom	2
SUBJECT KNOWLEDGE (for Option A only)			
Subject Knowledge courses aligned to the two Curriculum Studies areas			
Art	QCA504	Visual Arts and New Media Technologies	2
	QCA505	Children's Use and Organisation of Semiotic Systems	2
English Language	QSE501	Text Types for Upper Primary	4
Mathematics	QSM501	Number Topics	2
	QSM502	Geometry Topics	2
Music	QSI501	General Musicianship I	2
	QSI502	General Musicianship II	2
Science	QSS501	Topics in Physical Science for Primary Science Teaching	2
	QSS502	Topics in Biological Science for Primary Science Teaching	2
Social Studies	QSL501	History for Social Studies	2
	QSL502	Geography for Primary Social Studies	2

Cont'd

Category/ Subject	Course Code	Title	No. of AUs
LOWER PRIMARY INTEGRATED COURSES (for Option B only)			
	QCW501	Teaching Lower Primary 1	4
	QCW502	Teaching Lower Primary 2	4
PRACTICUM			
	QPR501	Teaching Practice	10
LANGUAGE ENHANCEMENT AND ACADEMIC DISCOURSE SKILLS			
	QLK501	Communication Skills for Teachers	2

Note: In addition to the core courses and the required number of prescribed electives, student teachers are required to undertake a compulsory Group Endeavours in Service Learning (GESL) project – QGS501. Description of GESL projects is available in page 13.

**Table 3: Curriculum Structure of the PGDE
(Chinese/Malay/Tamil, Primary) Programme**

Category/ Subject	Course Code	Title	No. of AUs
EDUCATION STUDIES			
	QED501	Educational Psychology I: Theories and Applications for Learning and Teaching	2
	QED502	Educational Psychology II: Providing for Individual Differences in Learning and Teaching and Classroom Management	2
	QED503	ICT for Engaged Learning	2
	QED504	The Social Context of Teaching and Learning	2
CURRICULUM STUDIES (Select either Chinese, Malay or Tamil)			
Chinese			
Chinese Language	QCC501	Teaching of Chinese Language 1	4
	QCC502	Teaching of Chinese Language 2	1
	QCC503	Teaching of Chinese Language 3	5
	QCC504	Teaching of Chinese Language 4	2
Moral Education (Chinese)	QCZ501	Teaching of Civics and Moral Education 1 (Chinese)	3
	QCZ502	Teaching of Civics and Moral Education 2 (Chinese)	3
Malay			
Malay Language	QCD501	Teaching of Malay Language (Pri) 1	3
	QCD502	Teaching of Malay Language (Pri) 2	3
	QCD503	Teaching of Malay Language (Pri) 3	3
	QCD504	Teaching of Malay Language (Pri) 4	3
Moral Education (Malay)	QCZ503	Teaching of Civics and Moral Education 1 (Malay)	3
	QCZ504	Teaching of Civics and Moral Education 2 (Malay)	3
Tamil			
Tamil Language	QCT501	Teaching of Tamil Language I	4
	QCT502	Teaching of Tamil Language II	2
	QCT503	Teaching of Tamil Language III	3
	QCT504	Teaching of Tamil Language IV	3
Moral Education (Tamil)	QCZ505	Teaching of Civics and Moral Education I (Tamil)	3
	QCZ506	Teaching of Civics and Moral Education II (Tamil)	3
PRACTICUM			
	QPR501	Teaching Practice	10

Cont'd

Category/ Subject	Course Code	Title	No. of AUs
LANGUAGE ENHANCEMENT AND ACADEMIC DISCOURSE SKILLS			
	QLK501	Communication Skills for Teachers	2
Select the same language as in Curriculum Studies	QLC501	Use of Chinese in Teaching	2
	QLM501	Use of Malay in Teaching I	1
	QLM502	Use of Malay in Teaching II	1
	QLT501	Use of Tamil in Teaching I	1
	QLT502	Use of Tamil in Teaching II	1

Note: In addition to the core courses and the required number of prescribed electives, student teachers are required to undertake a compulsory Group Endeavours in Service Learning (GESL) project – QGS501. Description of GESL projects is available in page 13.

CONTENTS OF COURSES

EDUCATION STUDIES

Course Code	Title	Course Category	No. of AUs	Pre-requisites
QED501	Educational Psychology I: Theories and Applications for Learning and Teaching	Core	2	-
QED502	Educational Psychology II: Providing for Individual Differences in Learning and Teaching and Classroom Management	Core	2	-
QED503	ICT for Engaged Learning	Core	2	-
QED504	The Social Context of Teaching and Learning	Core	2	-

QED501 Educational Psychology I: Theories and Applications for Learning and Teaching

This course provides the foundation for understanding the learner, their development and the psychology of learning. Key areas include: Understanding different aspects of pupil development and how these influence the teaching and learning processes. Psychosocial development, stages of moral development and the self-concept, and theories of intellectual development. Application of psychological principles and learning theories to classroom learning; understanding how pupils learn and how some pupils fail to learn; proactive approaches to motivate and enhance learning, develop creative and critical thinking and problem-solving skills.

QED502 Educational Psychology II: Providing for Individual Differences in Learning and Teaching and Classroom Management

Students with diverse abilities and needs are increasingly found in mainstream schools in Singapore. Greater diversity among students requires pedagogical approaches that are inclusive of the learning needs of all and yet responsive to individual abilities. This course seeks to help student teachers to understand the characteristics and needs of diverse learners and how to provide optimal learning for all students. This course also seeks to help student teachers acquire and apply basic knowledge and skills in relation to creating conducive learning environment, managing and facilitating teaching and learning activities, and school/classroom discipline. The importance of the practice of proactive classroom management and positive teacher-student relationship will also be emphasized.

QED503 ICT for Engaged Learning

Information and Communications Technologies (ICT) are an important part of classroom environments in Singapore today. In this course, student teachers learn the affordances of ICT tools for designing teaching and learning activities, design classroom activities for engaging students' with ICT as outlined in MOE's Second Masterplan for IT in Education. At the end of the course, student teachers need to demonstrate ICT integration in terms of planning, implementing & managing learning activities, work collaboratively to create ICT-based learning materials, and manage ICT learning activities.

QED504 The Social Context of Teaching and Learning

This course provides student teachers with an introduction to the Singapore education system that they will be working in. They will need to know the functions of the school system in socializing citizens for economic, political, social and cultural roles in the context of a multi-ethnic and multicultural society. They will have the opportunity to understand the rationale of major education policies and new government initiatives that impact the work of school leaders, teachers, students and other stakeholders in order to achieve the Desired Outcomes of Education laid out by the Ministry of Education. At the same time, they will be made aware of the diverse and multiple roles that are played by teachers in the education system.

CURRICULUM STUDIES

The Teaching of Art

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCA501	Working with Two-Dimensional Artistic Processes	Core	3	-
QCA502	Teaching of Art at Primary Level	Core	2	-
QCA503	Working with Three-Dimensional Artistic Processes	Core	3	-

QCA501 Working with Two-Dimensional Artistic Processes

This course looks into the practices of art appreciation through critical studies as well as two-dimensional art activities that will increase student teachers' own understanding of the creative thinking and practical processes appropriate to primary art teaching.

QCA502 Teaching of Art at Primary Level

This course will look into how the teaching of art has evolved over history. Issues that arise from the various education theories and their curriculum implications will be discussed. The course will also introduce key classical and contemporary theories of child development in the visual arts and how they affect teaching approaches to art in primary schools. The course will also examine how government policies and initiatives in the arts influence art education in primary schools and beyond.

QCA503 Working with Three-Dimensional Artistic Processes

This course looks into the practices of art appreciation through critical studies as well as three-dimensional art activities that will increase student teachers' own understanding of the creative thinking and practical processes appropriate to primary art teaching.

The Teaching of Chinese Language

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCC501	Teaching of Chinese Language 1	Core	4	-
QCC502	Teaching of Chinese Language 2	Core	1	-
QCC503	Teaching of Chinese Language 3	Core	5	-
QCC504	Teaching of Chinese Language 4	Core	2	-

QCC501 Teaching of Chinese Language 1

This course aims to provide student teachers with the basic theories and concepts related to language and language teaching at primary level, with special reference to Chinese. Its objective is to enable student teachers to design their own lesson plans with confidence, embolden by sound theoretic knowledge.

QCC502 Teaching of Chinese Language 2

This course focuses on the teaching of the written forms of words.

QCC503 Teaching of Chinese Language 3

This course aims to equip student teachers with techniques in the teaching of different language skills. Student teachers will acquire a comprehensive understanding of the various teaching methods and various practical techniques.

QCC504 Teaching of Chinese Language 4

Student teachers will be introduced to basic concepts of Chinese language testing, the procedures of language testing, the effective ways of setting various types of questions and the cognitive levels involved.

The Teaching of Civics and Moral Education (Chinese)

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCZ501	Teaching of Civics and Moral Education 1 (Chinese)	Core	3	-
QCZ502	Teaching of Civics and Moral Education 2 (Chinese)	Core	3	-

QCZ501 Teaching of Civics and Moral Education 1 (Chinese)

The historical background of moral education in Singapore schools. An overview of the primary school Civics and Moral Education programme. The selection of relevant materials for the teaching of moral education. The various approaches to the teaching of moral education. Hands-on experience and the preparation of teaching plans.

QCZ502 Teaching of Civics and Moral Education 2 (Chinese)

The course deals with IT resources and children's literature as well as their use in the teaching of civics and moral education, in arousing pupils' interest and stimulating thinking.

The Teaching of English Language

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCE501	Teaching Reading and Writing	Core	6	-
QCE502	Teaching Oral Communication	Core	2	-

QCE501 Teaching Reading and Writing

This course will equip student teachers with the knowledge of processes and strategies in the teaching of reading and writing at the primary level. Student teachers will acquire knowledge of how language is learned at home and in school, and how oracy, reading and writing can be integrated and taught in the lower and upper primary classroom. Student teachers will become familiar with the learning outcomes of the Primary English Syllabus, methods of monitoring, evaluating and diagnosing pupils' language skills. They will learn how to use children's texts as a significant resource for teaching reading and writing.

QCE502 Teaching Oral Communication

This course will focus on processes and strategies for teaching oral communication skills in English. Student teachers will learn strategies and appropriate activities to help develop speakers and listeners in the primary classroom. They will become familiar with the learning outcomes for teaching oral communication skills in the Primary English syllabus.

The Teaching of Malay Language

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCD501	Teaching of Malay Language (Primary) 1	Core	3	-
QCD502	Teaching of Malay Language (Primary) 2	Core	3	-
QCD503	Teaching of Malay Language (Primary) 3	Core	3	-
QCD504	Teaching of Malay Language (Primary) 4	Core	3	-

QCD501 Teaching of Malay Language (Primary) 1

The theoretical and practical understanding of the Malay Language curriculum in primary schools. Theories and approaches in language learning. Various language teaching and learning methods and techniques. The process of vocabulary acquisition and development, including teaching of Malay proverbs. The use of IT-based materials in the teaching of Malay language.

QCD502 Teaching of Malay Language (Primary) 2

Reading process, the concept of reading “readiness” and the development of reading skills. Methods and strategies in the teaching of reading and reading comprehension including the use of big books and electronic ‘shared’ books in Malay. Reading activities and programmes at the primary level. The teaching of listening and speaking skills.

QCD503 Teaching of Malay Language (Primary) 3

The role and functions of literature in children’s development and language education. Exploring and appreciation of Children’s literature and other literary materials and sources for development of four language skills. The general principles, methods and techniques in teaching literature.

QCD504 Teaching of Malay Language (Primary) 4

Understanding of the writing process, the various types of writing, the levels of writing skills and the teaching of evaluation of writing skills. Teaching and learning of Malay grammar at primary level. Basic concepts of testing, the construction and administration of tests, developing language tests and alternative assessments in Malay.

The Teaching of Civics and Moral Education (Malay)

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCZ503	Teaching of Civics and Moral Education 1 (Malay)	Core	3	-
QCZ504	Teaching of Civics and Moral Education 2 (Malay)	Core	3	-

QCZ503 Teaching of Civics and Moral Education 1 (Malay)

An introduction to the study of moral education. The aims of moral education and various approaches to the teaching of moral education such as the cultural transmission approach, consideration approach, cognitive developmental approach, values clarification approach and others. An overview of the primary school Moral Education programme. The aims and objectives, the approaches, techniques, strategies and preparation of teaching plans for the teaching of Moral Education.

QCZ504 Teaching of Civics and Moral Education 2 (Malay)

The concepts, core values in Moral Education and the shared values across different cultures, ethnics and religions in the context of Singapore as a plural society. Hands-on experience and the preparation of specific lessons. The use of IT in the teaching of Moral Education.

The Teaching of Mathematics

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCM501	The Teaching and Learning of Primary Mathematics I	Core	6	-
QCM502	The Teaching and Learning of Primary Mathematics II	Core	2	-

QCM501 The Teaching and Learning of Primary Mathematics I

Overview of the Singapore Primary Mathematics Curriculum; NE infusion; Preparation of Scheme of Work and Lesson Plans; Pedagogical Strategies and Psychological Theories; Teaching Problem Solving and Investigations; Mathematical Communication; Teaching of Whole Numbers, Fractions, Decimals, Percentages, Ratio and Direct Proportion, Rate and Speed, Geometry, Money and Measures, Mensuration, Graphical Representation and Statistics, Algebra. [ICT and common pupils' errors will be dealt with in the teaching of various topics.]

QCM502 The Teaching and Learning of Primary Mathematics II

This course covers two broad areas: (a) Various traditional assessment modes in Mathematics and the use of these modes in schools to assess pupil performance, in particular, the planning and construction of test items and (b) Practice of teaching skills, including catering for pupils of mixed abilities.

The Teaching of Music

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCI501	Music Curriculum I	Core	3	-
QCI502	Music Curriculum II	Core	3	-
QCI503	Music Curriculum III	Core	2	-

QCI501 Music Curriculum I

The application of musicianship skills towards analysing and diagnosing appropriate instructional goals, objectives, music teaching strategies and teaching materials for the primary school in Singapore. Foundational musicianship skills such as singing, keyboard playing, elementary conducting and rehearsal techniques, music reading and aural skills are developed and explored in the context of classroom teaching.

QCI502 Music Curriculum II

This course examines the music syllabus currently taught in Singapore primary schools, focusing on the rationale, background and philosophy of the syllabus. There will be practical experience with the music material used for managing and developing a general music programme. Pedagogies and practices that are suitable at the primary levels will be explored to help student teachers plan and teach a holistic and integrated music curriculum.

QCI503 Music Curriculum III

Further examines and evaluates relevant teaching materials, methods and practices available for the teaching of the primary music curriculum. Different aspects of music teaching and learning processes

will continue to be explored to develop an understanding of the music of local and global cultures, creativity and critical thinking skills, current policies and initiatives by the Ministry and their impact on music syllabuses.

The Teaching of Science

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCS501	Curriculum and Pedagogy for Primary Science	Core	3	-
QCS502	Assessment Modes and Resource Management in Primary Science	Core	3	-
QCS503	Innovations in Design and Practices for Primary Science	Core	2	-

QCS501 Curriculum and Pedagogy for Primary Science

The nature of science, science inquiry and scientific inquiry. An overview of the goals and objectives of the primary science curriculum. An analysis of the syllabus, textbooks and other curricular materials with respect to the means of communication, infusion of thinking, ICT, National Education and Innovation and Enterprise. Implications of psychological theories in teaching and learning primary science. Various principles, methods and strategies of teaching and learning primary science. Various life and physical science investigative problem-solving activities for experiential learning.

QCS502 Assessment Modes and Resource Management in Primary Science

Underlying concepts and principles in assessment. Formal and non-formal methods of assessment of pupil learning. Types and uses of tests. Test construction and analysis. Management and use of ICT, learning aids and resources for primary science teaching and learning. Management and use of non-formal resources for science teaching and learning.

QCS503 Innovations in Design and Practices for Primary Science

Critical review and reflection on student teachers' teaching experiences with respect to curriculum planning, instruction and assessment. In particular, the course will introduce student teachers to children's science ideas and strategies for conceptual development and change, investigative problem-solving designs and projects, critical thinking, innovation and creativity, multiple intelligences, alternative modes of assessment, remedial and enrichment programmes and the integration of ICT and thinking.

The Teaching of Social Studies

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCL501	Teaching Social Studies in the Primary Classroom I	Core	4	-
QCL502	Teaching Social Studies in the Primary Classroom II	Core	2	-
QCL503	Managing Diversity in the Social Studies Classroom	Core	2	-

QCL501 Teaching Social Studies in the Primary Classroom I

This course aims to develop within student teachers an understanding of the nature, scope and goals of social studies in the context of the Singapore primary curriculum. It seeks to equip them with a variety of classroom-based teaching strategies that are relevant to the Singapore Primary Social Studies syllabus. The historical, geographical and economic concepts and skills in the syllabus will be examined and effective teaching strategies for Social Studies will be explored.

QCL502 Teaching Social Studies in the Primary Classroom II

This course aims to provide student teachers with further strategies for teaching the Singapore Primary Social Studies syllabus. There will be reinforcement of understandings and skills in planning effective units of instruction incorporating the use of inquiry and other pupil-centred strategies. The principles and practice of organizing and conducting fieldwork will also be covered.

QCL503 Managing Diversity in the Social Studies Classroom

This course aims to provide student teachers with the knowledge and skills to use an inter-disciplinary approach to teaching social studies. The course will also raise provide them with the knowledge and skills to cater to diversity in the classroom.

The Teaching of Tamil Language

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCT501	Teaching of Tamil Language I	Core	4	-
QCT502	Teaching of Tamil Language II	Core	2	-
QCT503	Teaching of Tamil Language III	Core	3	-
QCT504	Teaching of Tamil Language IV	Core	3	-

QCT501 Teaching of Tamil Language I

The curriculum and methodology for teaching Tamil language. The four language skills, the importance of those skills. Various theoretical approaches to language acquisition and learning. The teaching of reading and writing for the lower primary level, using different approaches and integrating the four language skills. Preparation of the student teacher to teach listening and speaking skills at the primary level. The importance of listening and speaking skills in language teaching, various approaches to the teaching of acceptable pronunciation, stress and intonation and the use of the language laboratory to teach pronunciation and listening. The importance of Standard Spoken Tamil and Tamil word processing.

QCT502 Teaching of Tamil Language II

The teaching of Tamil alphabet, methods of teaching vocabulary and various practices. Teaching of spelling, dictation, comprehension and composition. The role of IT in teaching alphabet, vocabulary, spelling, dictation, comprehension and composition. The teaching of Tamil poetry and proverbs at the primary level. Emphasis on moral and cultural values through teaching poetry and proverbs through anecdotes and stories.

QCT503 Teaching of Tamil Language III

The teaching of Tamil functional grammar at the primary school level. The place of functional grammar in the study of the second language, error analysis, development of grammatical and communicative competency.

QCT504 Teaching of Tamil Language IV

Basic concepts of testing, the construction and administration of tests, item analysis and developing language tests in Tamil. Testing of four languages skills and further remedial exercises for developing the student teachers' language skills.

The Teaching of Civics and Moral Education (Tamil)

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCZ505	Teaching of Civics and Moral Education I (Tamil)	Core	3	-
QCZ506	Teaching of Civics and Moral Education II (Tamil)	Core	3	-

QCZ505 Teaching of Civics and Moral Education I (Tamil)

The historical background to Moral Education in Singapore Schools, the aims of Moral Education and the aims of Civics and Moral Education and the policy of the Ministry of Education on moral education. The various approaches to the teaching of moral education, viz cultural transmission, cognitive development, consideration and values clarification approaches. Practical classroom skills to conduct moral education lessons effectively through the use of the expository, tutorial and inquiry methods. Special use of role play, puppets and field trips and using electronic media such as IT and video . Classroom management, lesson preparation and grouping pupils for monitoring progress. Familiarisation of student teachers with the CME curriculum to prepare them to teach moral education at the primary level through different approaches.

QCZ506 Teaching of Civics and Moral Education II (Tamil)

Classroom management and strategies in the teaching of moral education. The text books used and the core values such as Love and Humility, Filial Piety, Harmonious Family, Courtesy, Responsibility, Compassion and Loyalty and 28 moral values. Hands-on experience and presentation of specific lessons to enable student teachers to teach the programme effectively. Understanding of cultural

practices as important festivals and their values, places of worship and customs and traditions of different people in Singapore. Questions about NE messages, understanding and acceptance among different races in Singapore. The Singapore heritage, the constitution and cultural patterns, insight and understanding of the different races, cultures and religions.

SUBJECT KNOWLEDGE

Art

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCA504	Visual Arts and New Media Technologies	Core	2	-
QCA505	Children's Use and Organisation of Semiotic Systems	Core	2	-

QCA504 Visual Arts and New Media Technologies

This course shows the role of art processes in new media applications. This course describes recent contemporary art approaches as well as practical and pedagogical projects that serve as a method for introducing student teachers to Art and New Media.

QCA505 Children's Use and Organisation Of Semiotic Systems

This course will introduce student teachers to children's use and organisation of semiotic systems. Student teachers will learn how, in the child's earliest encounters with representational and expressive media, she realises the key principle of representation. This principle has been termed the 'dual nature' of symbols and signs and derives from the work of Vygotsky.

Student teachers will learn that this dual function shows up especially clearly for children when they engage in art practices. Thus, children learn the foundations of representational and symbolic thought particularly well in art education.

Student teachers will learn how, as the child moves from lower to upper primary school, so she make her

entry into the more formal semiotic systems of societies and cultures, including those used in her own society and culture. Pedagogical implications will be considered.

English Language

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QSE501	Text Types for Upper Primary	Core	4	-

QSE501 Text Types for Upper Primary

This course will equip student teachers with the subject knowledge needed to teach text types at the upper primary. Student teachers will understand how language is used for different purposes: to describe, narrate, explain, instruct, persuade and argue. They will study both fiction and non-fiction and how to identify organizational structure, key language features and visuals in these texts. Through tutorial activities, they will see how all these features of texts combine to create meaning for writers and readers.

Mathematics

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QSM501	Number Topics	Core	2	-
QSM502	Geometry Topics	Core	2	-

QSM501 Number Topics

This course provides the foundational understanding of arithmetic topics which form a major portion of the primary mathematics curriculum. Problem solving processes will be introduced and re-visited in the different topics. Course topics are: Problem solving; Foundations of the Hindu-Arabic System; Algorithms on number operations in a place value system; Classification of number systems; Divisibility; Ratio, proportion and rates

QSM502 Geometry Topics

This course aims to equip the primary mathematics teacher with a deeper understanding of geometry and measurement topics in the primary mathematics curriculum. Processes such as mathematical deduction and induction will be emphasized. Topics are: Mathematical deduction and induction; Basic elements of geometry as study of space in 2 and 3 dimensions; Properties associated with parallel lines; Properties of geometrical figures; Similarity and Congruency; Measurement; Constructions and proofs; Motion Geometry and tessellations.

Music

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QSI501	General Musicianship I	Core	2	-
QSI502	General Musicianship II	Core	2	-

QSI501 General Musicianship I

This course seeks to establish a foundation in musicianship skills (aural-training, sight-singing, keyboard skills, functional music theory and analysis) for the music classroom via the activities of creating, performing and responding.

QSI502 General Musicianship II

This course builds on foundational musicianship skills and seeks to intensify these skills while introducing concepts and principles of applying such skills to music teaching and learning for the classroom.

Science

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QSS501	Topics in Physical Science for Primary Science Teaching	Core	2	-
QSS502	Topics in Biological Science for Primary Science Teaching	Core	2	-

QSS501 Topics in Physical Science for Primary Science Teaching

This course deals with the theoretical and practical aspects of topics in Physical Science selected from the new Primary Science Curriculum. The topics include matter and materials, forms of energy and conversions, heat, light and the solar system, magnetism and electricity, forces and simple machines.

QSS502 Topics in Biological Science for Primary Science Teaching

This course deals with the theoretical and practical aspects of topics in Biological Science from the new Primary Science Curriculum. The topics to be discussed include basic biology, classification and diversity of organisms (reproduction and life cycles), structure and function of plant systems, structure and function of animal systems, ecology and environmental issues.

Social Studies

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QSL501	History for Social Studies	Core	2	-
QSL502	Geography for Primary Social Studies	Core	2	-

QSL501 History for Social Studies

This course aims to equip student teachers with an in-depth knowledge of the history of Singapore. The emphasis is on independent learning and critical thinking. Relevant historical skills, such as handling sources, perspectives and oral history, will be covered.

QSL502 Geography for Primary Social Studies

An in-depth account of certain topics from the primary social studies curriculum, such as, the physical environment, weather and natural vegetation of Singapore. Issues on constraints of a small island state, social, economic and political developments, conservation and preservation of natural and cultural heritage, human-nature interactions, Singapore in the context of ASEAN and the world community, and the dependence and interdependence of nations and regions. Some relevant geographical skills such as map reading and photo interpretations.

LOWER PRIMARY INTEGRATED COURSES

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QCW501	Teaching Lower Primary 1	Core	4	See *
QCW502	Teaching Lower Primary 2	Core	4	See *

* : Must have taken first course before second course.
Must have taken CS (Eng) and CS (Math).

QCW501 Teaching Lower Primary 1

The first course in the Lower Primary Specialization track seeks to prepare pre-service student teacher to use a more holistic and interactive approach towards teaching and learning. It will equip student teachers with the knowledge and skills to teach a developmentally appropriate integrated curriculum for children at the lower primary level and to use appropriate formal and informal assessment techniques to assess the development of young children, with particular focus on alternative forms of assessment. Student teachers will also learn how to create learning environments that are both nurturing and stimulating for young children. A spiral and experiential approach will be taken in the delivery of the courses in this Specialization. Field experiences will be arranged, where appropriate, to link theory with practice.

QCW502 Teaching Lower Primary 2

This second course in the Lower Primary Specialization Programme will build on the pedagogies and principles taught in the first course. Using the experiential approach again, student teachers will re-visit pedagogical principles and practices in planning and implementing a

developmentally appropriate integrated curriculum for lower primary children, with an emphasis on how to cater to learner diversity within the integrated classroom. Student teachers will learn how to identify students with learning and behavioural needs, differentiate curriculum and instruction and create supportive learning environments to meet their needs. Student teachers will also look at how to collaborate with parents and the community to support children's learning and well-being.

PRACTICUM

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QPR501	Teaching Practice	Core	10	-

QPR501 Teaching Practice

The Practicum is a very important component of the PGDE programme. Its principal function is to provide student teachers with the opportunity to develop teaching competencies in a variety of instructional contexts and at different levels, under the guidance and supervision of cooperating teachers and university lecturers. They will learn from experienced cooperating teachers about the schooling process and prepare themselves for their roles and responsibilities in teaching.

During the Practicum, student teachers will be able to use the knowledge and skills acquired in the subjects they read at the university, and have opportunities to integrate theory and practice in schools.

The Practicum will comprise a 10-week Teaching Practice (TP), in which the student teachers will build up their skills and knowledge in a step-wise manner. They will develop planning and delivery skills, followed by classroom management and evaluation skills. In addition, to ensure that the student teachers have a holistic experience, they will also be provided opportunities to explore other aspects of a teacher's life besides classroom teaching, for example, observing how CCAs are managed.

LANGUAGE ENHANCEMENT AND ACADEMIC DISCOURSE SKILLS

Communication Skills for Teachers

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QLK501	Communication Skills for Teachers	Core	2	-

QLK501 Communication Skills for Teachers

This is a practical course designed to provide the student teachers with oral and written skills necessary for effective communication as teachers in the classroom and in their professional interaction with colleagues, parents and the general public. It includes practice tasks to improve speaking skills as well as exercises and group work practice in thinking processes and communication strategies in the context of text types. Student teachers will be given practical instruction on vocal health care and vocal quality. The practice of good voice production will be embedded in the activities of every session.

Use of Chinese in Teaching

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QLC501	Use of Chinese in Teaching	Core	2	-

QLC501 Use of Chinese in Teaching

This course aims to equip student teachers with the essential knowledge and communication skills on the use of Chinese in teaching.

Use of Malay in Teaching

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QLM501	Use of Malay in Teaching I	Core	1	-
QLM502	Use of Malay in Teaching II	Core	1	-

QLM501 Use of Malay in Teaching I

The development of communicative proficiency in the use of Malay in primary schools. Accuracy and mastery in pronunciation, including the new pronunciation system (Sebutan Baku) and communication skills inside and outside the classroom. Reading aloud, spontaneous dialogue, giving instructions, questioning techniques, explaining concepts, lecturing and debating skills.

QLM502 Use of Malay in Teaching II

Greater exposure and practice for student teachers to develop their proficiency and confidence as Malay Language teachers in the primary school. Essay and letter writing, report writing, academic and creative writing. Literacy in Jawi will be included.

Use of Tamil in Teaching

Course Code	Course Title	Course Category	No of AUs	Pre-requisite
QLT501	Use of Tamil in Teaching I	Core	1	-
QLT502	Use of Tamil in Teaching II	Core	1	-

QLT501 Use of Tamil in Teaching I

Development of oral proficiency and use of Standard Spoken Tamil in the classroom and school environment. Phonetics to help student teachers acquire accuracy and mastery in pronunciation and other communication skills which we used inside and outside the classroom. Common errors in speaking with spoken and written Tamil and the syntactical aspects of Tamil. Potential of IT as a language teaching tool.

QLT502 Use of Tamil in Teaching II

Written communication skills. Essay writing, report writing and creative writing and other communication skills that are necessary for various professional roles that teachers assume in primary schools. Using IT to teach written skills.