

Course Synopsis for Post- Diploma Courses

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ADVANCED DIPLOMA IN ACCOUNTANCY

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of FOUR Post-Diploma Certificates (PDCs) within a three-year validity period.

POST-DIPLOMA CERTIFICATE IN FINANCIAL REPORTING & TAX

Modules	Synopsis
Principles of Financial Reporting	Provides the knowledge of the Conceptual Framework and the Singapore Financial Reporting Standards (SFRS) for participants to be able to explain and advise on the application of the SFRS, demonstrating appropriate professional judgment.
Singapore Taxation	Equips participants with the core knowledge of the principles and major technical areas of taxation through a variety of scenarios and situations.

POST-DIPLOMA CERTIFICATE IN FINANCIAL MANAGEMENT & ACCOUNTING FOR DECISION MAKING

Modules	Synopsis
Financial Management	Provides participants with the knowledge and skills to manage the finance function of a business.
Accounting for Decision Making	Develops participants with management accounting techniques for planning, control, and decision-making. Focuses on analysis of relevant information for decision-making by management.

POST-DIPLOMA CERTIFICATE IN ADVANCED FINANCIAL REPORTING & ASSURANCE

Modules	Synopsis
Advanced Financial Reporting	Provides the knowledge of the Conceptual Framework and the Singapore Financial Reporting Standards (SFRS) for participants to be able to explain the treatment and disclosure of hedge accounting, demonstrating appropriate professional judgment.
Assurance	Equips participants to be able to demonstrate how an auditor obtains an understanding of the entity, plans and performs audit procedures and more in accordance with the Singapore Standards on Auditing and Code of Professional Conduct and Ethics.

POST-DIPLOMA CERTIFICATE IN ACCOUNTING PRACTICE

Modules	Synopsis
Structured Practicum	<p>The modules encompass 180 hours of industry practicum in accounting, auditing or taxation under the supervision of an approved mentor in an Accredited Training Organisation (ATO) over a minimum period of 18 months. Students must gain full-time employment with an ATO and fulfil the required practicum training hours and minimum employment period in order to complete the modules.</p> <p>Candidates with relevant working experience may apply for Recognition of Prior Learning and be exempted from the practicum module.</p>

ADVANCED DIPLOMA IN EARLY CHILDHOOD INTERVENTION (SPECIAL NEEDS)

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of THREE Post-Diploma Certificates (PDCs) within a three-year validity period.

POST DIPLOMA CERTIFICATE IN EARLY CHILDHOOD SPECIAL EDUCATION

Modules	Synopsis
Typical and Atypical Early Childhood Development	Examines the stages of early development in young children, the focus being on physical, cognitive, social and emotional processes, including the impact of a child's development in relation to children's play behaviour.
Issues & Trends in Special Needs & Early Childhood Intervention	Provides an overview of some of the current issues in special education & early intervention and how these issues may impact the work of teachers
Early Literacy and Numeracy	Focuses on the nature of an integrated and developmentally appropriate curriculum on literacy and numeracy development of young children with diverse needs as well as the specific curricula adaptations.

POST DIPLOMA CERTIFICATE IN EARLY CHILDHOOD ASSESSMENT AND INTERVENTION APPROACHES

Modules	Synopsis
Assessment, Evaluation and Programming	Introduces standardised, norm based, curriculum based, and criterion referenced approaches to assessment including typical screening measures. The main focus, however, will be on linked system approaches such as the Assessment, Evaluation, and Programming System, (AEPS).
Early Years Curricula and Intervention Strategies I	Provides a variety of curricula and teaching approaches which will focus on activity based, authentic, play-based and child-directed approaches.
Early Years Curricula and Intervention Strategies II	Explores various approaches of therapy used by the allied health professionals which can be embedded into the pedagogical approaches of the early interventionist.

POST DIPLOMA CERTIFICATE IN EARLY INTERVENTION PROFESSIONAL PRACTICE

Modules	Synopsis
Working Collaboratively with Parents and Other Professionals	Introduces theories and models of parenting / caregiving in different cultural contexts, issues and support services. Includes the transdisciplinary approach with a focus on the collaboration between the family and the professionals working with the child in the early intervention.
Child Study Project	Enables participants to undertake an in-depth study of a child who is either at risk or diagnosed with a clinical condition and will require individualized support.
Supervised Practicum	Provides practical 'hands on' experience specifically designed to relate and extend participants' theoretical knowledge in the major fields of study.

ADVANCED DIPLOMA IN EARLY CHILDHOOD LEADERSHIP

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of THREE Post-Diploma Certificates (PDCs) within a three-year validity period.

POST DIPLOMA CERTIFICATE IN FUNDAMENTALS OF EARLY CHILDHOOD LEADERSHIP

Modules	Synopsis
Collaborative Leadership	Provides skills in fostering a culture of mentoring in the early childhood settings. Learns strategies for effective communication that is respectful of diversity to establish protocols, to address conflicts in relation to staff, families and issues detrimental to the well-being of children.
Leadership in ECCE Settings	Engages participants to reflect on their personal philosophy, values and beliefs and formulate their philosophy that guides policy, day-to-day operations and innovation for an early childhood setting. Building an organisational culture of collective responsibility and team accountability through strategic leadership.
Instructional Leadership	Covers macro roles of instructional leaders, including staff development and supervision. Learns to lead in the design, implementation, monitoring and evaluation of curriculum and assessment methods that meet the needs of children adopting the appropriate classroom practices through observations and supervision of classroom teaching.

POST DIPLOMA CERTIFICATE IN CURRICULUM LEADERSHIP IN AN EARLY CHILDHOOD SETTING

Modules	Synopsis
Designing Programmes in ECCE Settings	Equips participants with the knowledge and skills to lead in the review, planning, and implementation of developmentally appropriate curriculum, including social-emotional learning and character and values education.
Supporting Diversity in ECCE Settings	Explores the socio-cultural aspects and linguistic contexts of development and the needs of preschool children from diverse backgrounds. Examines the resources and strategies for developing frameworks for strategic partnership with families and community that support diversity in child-centered early childhood programmes.
Differentiating the Curriculum	Explores how the curriculum of an early childhood setting can be adapted to include differentiating instruction that supports the diverse learning needs, interests, abilities and potential of children.
Supervised Leadership Practicum I	Introduces the role of action research in studying issues concerning models of practice. It will also examines current research topics and search for relevant data sources for conducting and writing a literature review.

POST DIPLOMA CERTIFICATE IN MANAGEMENT IN EARLY CHILDHOOD SETTING

Modules	Synopsis
Management of ECCE Settings	Introduces the structures and processes for the effective support and coordination of a range of services, and the roles of the government in the development of regulations and policies.
Human Resource Management	Examines various Human Resource practices aligned to employment laws, performance management, talent identification, and change management. Engages participants in examining ethical issues and challenges for leaders in early childhood programmes.
Professional Development of EC Educators	Provides a high level of awareness of the professional and personal needs of staff at an early childhood setting. It also equips participants with skills required for teambuilding and continuing professional development.
Supervised Leadership Practicum II	In part two of the leadership practicum, participants will conduct a systematic needs analysis of the early childhood setting. An action plan will be developed, implemented and followed with a post-test.

ADVANCED DIPLOMA IN EARLY CHILDHOOD TEACHING & LEARNING

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST DIPLOMA CERTIFICATE IN FUNDAMENTALS OF EARLY CHILDHOOD LEADERSHIP

Modules	Synopsis
Collaborative Leadership	Provides skills in fostering a culture of mentoring in the early childhood settings. Learns strategies for effective communication that is respectful of diversity to establish protocols, to address conflicts in relation to staff, families and issues detrimental to the well-being of children.
Leadership in ECCE Settings	Engages participants to reflect on their personal philosophy, values and beliefs and formulate their philosophy that guides policy, day-to-day operations and innovation for an early childhood setting. Building an organisational culture of collective responsibility and team accountability through strategic leadership.
Instructional Leadership	Covers macro roles of instructional leaders, including staff development and supervision. Learns to lead in the design, implementation, monitoring and evaluation of curriculum and assessment methods that meet the needs of children adopting the appropriate classroom practices through observations and supervision of classroom teaching.

POST DIPLOMA CERTIFICATE IN TEACHING AND LEARNING IN THE ECCE SETTING

Modules	Synopsis
A Child-centred Approach to Teaching & Learning	Further understanding of research influencing teaching and learning approaches in early childhood settings with an emphasis on factors that impact children's growth, learning and development.
Reflective Teaching	Develops a high level of awareness of teaching and learning approaches through reflective practices such as the use of assessment and documentation to deepen their knowledge of techniques.
Capstone Project	Introduces participants to the process of developing and implementing a capstone project of an existing issue related to curriculum experiences for children.

ADVANCED DIPLOMA IN ENTERPRISE BUSINESS ANALYTICS

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of THREE Post-Diploma Certificates (PDCs) within a three-year validity period.

POST-DIPLOMA CERTIFICATE IN CONSUMER ANALYTICS

Modules	Synopsis
Data Design & Analytics	Provides concepts of consumer analytics to develop efficient analysis and reporting solutions. Teaches participants how to organize data and automate repetitive tasks.
Social Media Marketing and Web Analytics	Introduces business-related activities and transactions taking place in the social media space, including digital sales and marketing, consumer support etc.

POST-DIPLOMA CERTIFICATE IN PERFORMANCE ANALYTICS

Modules	Synopsis
Business Performance Analytics	Introduces concepts of enterprise performance management and critical analysis and decision-making on the performance of the business.
Data Visualisation & Analytics	Provides understanding of how data can be represented through pictorial and graphical formats for easier but rich analysis and presentation.

POST-DIPLOMA CERTIFICATE IN BUSINESS ANALYTICS

Modules	Synopsis
Descriptive Analytics	Equips participants with knowledge on the descriptive analytics lifecycle, and ability to identify and aggregate data sources and create data models.
Predictive Analytics	Introduces techniques used in predictive modeling such as decision trees, regressions and neural networks. Teaches participants to assess and implement data mining models.

ADVANCE DIPLOMA IN MEDICAL AND PHARMACEUTICAL TECHNOLOGY

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of FOUR Post-Diploma Certificates (PDCs) within a four-year validity period.

POST-DIPLOMA CERTIFICATE IN CELL AND MOLECULAR BIOLOGY

Modules	Synopsis
Cell Biology	Provides a solid foundation for participants without life science background to better understand the biological processes behind cell culture and biomanufacturing.
Molecular Biology	Introduces cloning and expression of genes of interest for biologic production and the use of molecular tools in contamination detection and quality control.
Applied Genomics And Proteomics	Provides an understanding of analytical tools for protein extraction, purification, analysis, quantitation to contaminant detection, including sequence analysis mining using bioinformatics tools.
Mammalian Cell Culture	Equips participants with skills in aseptic techniques, and an understanding of the application of cell culture in biopharmaceutical production.

POST DIPLOMA CERTIFICATE IN MICROBIOLOGICAL AND PHARMACEUTICAL ANALYSES

Modules	Synopsis
Microbiology	Provides basic concepts of microbiology including the types, classification and properties of bacteria, fungi and viruses. The laboratory sessions equips participants with aseptic technique and methods for staining, enumeration, culturing, maintenance and identification of microorganisms.
Pharmaceutical Microbiology	Introduces standard methods in pharmaceutical microbiology, including testing of sterile and non-sterile products, preservative testing, D-value and holding time calculations, validation of sterilization process, environmental monitoring and Good Manufacturing Practices.
Biochemical And Pharmaceutical Analyses	Provides an overview of the modern analytical techniques used for the detection, identification and quantitative determination of small molecule drugs and related substances.

POST DIPLOMA CERTIFICATE IN PHARMACEUTICAL QUALITY SYSTEMS

Modules	Synopsis
cGMP Compliance	Provides an overview of the GXP regulatory standards and requirements in the pharmaceutical industry, from drug development process to the manufacturing of the finished product.
Validation	Covers the principles of qualification and validation in the pharmaceutical and biologics industry. Specific approaches to the qualification of utilities, cleaning, sterilization, analytical methods and computer systems will also be discussed.
QA and Documentation	Explores product life cycle approach to QA documentation in assuring product quality is built-in right from drug development, technology transfer to manufacture & distribution. Also covers ICH Q10 Pharmaceutical Quality System, ICH Guideline – Common Technical Document (CTD) for Registration of Pharmaceuticals for Human Use and Good Documentation Practices.
QC Analytics	Focuses on QC issues in biopharmaceutical and related manufacturing practices, including the regulatory requirements, methods and tools used in determining the quality of biopharmaceuticals.

POST DIPLOMA CERTIFICATE IN BIOPHARMACEUTICAL MANUFACTURING

Modules	Synopsis
Upstream Processing	Provides an overview of the processes involved in producing biopharmaceuticals from raw materials using cells as biocatalysts. Covers applications of recombinant technology, cell banking, bioreactor operation and factors involved in the scale up of animal cell cultures from flask to reactor.
Downstream Processing	Covers the pre-purification, purification and fill and finish processes of recombinant proteins and monoclonal antibodies, including the packing of columns and the selection of column packings.
Drug Formulation	Focuses on the design and formulation of two-phase pharmaceutical products, including suspensions, emulsions and solid pharmaceutical products and sterile drugs.

ADVANCED DIPLOMA IN CRITICAL CARE NURSING

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of FOUR Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN APPLIED SCIENCES IN ADVANCED NURSING

Modules	Synopsis
Health Assessment and Clinical Decision Making	This module aims to provide the students with comprehensive foundation and principles of health assessment in clinical nursing practice. It will also provide comprehensive skills necessary to obtain data through complete health history taking and physical examination. Emphasis will be placed on the holistic and comprehensive approach of assessment. Variations of normality in the older persons will be taken into considerations in the assessment findings. Together with the relevant laboratory data, this module also equips the students with necessary knowledge underpinning the skills to make informed clinical decisions.
Applied Pathophysiology and Pharmacology	This module aims to provide students with knowledge and understanding of pathophysiologic and pharmacologic considerations. This module will enable the students to gain a better understanding of underlying disease processes and relate the basic principles of pharmacology and the nursing process to selected drugs and their therapeutic use.
Evidence-Based Practice	This module aims to provide the students with the knowledge and application underpinnings the evidence-based practice. Based on the 5 steps of evidence-based practice, the students will learn to convert information into an answerable clinical question (ask), track down best evidence for answering the question (acquire), critically appraise evidence (appraise), integrate evidence into clinical decision making (application), and evaluate and seek ways to improve the next time (audit).
Care Management Across Life Span	This module focuses on the current trends that affect the healthcare and financial systems in Singapore. Emphasis will be placed on integrated care, collaboration and coordination to provide continuity of care of patients with special needs in a variety of healthcare settings. The principles and concepts of palliative care, case management, disease management, medical-surgical nursing and transitional care will be discussed.

POST-DIPLOMA CERTIFICATE IN CLINICAL PRACTICUM IN ADVANCED NURSING

Modules	Synopsis
Clinical Practicum in Advanced Nursing	<p>The module provides the student opportunities to synthesize and apply the knowledge and practical skills learned in Post-Diploma Certificate 1 (<i>Health Assessment and Clinical Decision Making, Applied Pathophysiology and Pharmacology, Evidence-Based Practice and Care Management Across Life Span</i>) to the 2-week of broad-based Clinical Practicum in Advanced Nursing module. The students will be assigned to one of the following clinical settings that is different from their specialty attachment.</p> <ul style="list-style-type: none">• Acute care• Intermediate and long-term care• Primary care• Geriatric centres• Mental Health care

POST DIPLOMA CERTIFICATE IN ADVANCED CRITICAL CARE NURSING

Modules	Synopsis
Fundamentals in Critical Care Nursing	This module aims to provide students with an understanding and comprehensive foundation on the fundamentals of critical care nursing. Critical care practices, ethical and legal issues, patient and family education, psychosocial issues, sleep alterations and management, nutrition, pain management, sedation, agitation, delirium assessment and management and end of life issues are covered in depth with integration of pathophysiology and applied human anatomy and relevant laboratory and diagnostic studies results are included and advanced nursing skills that are performed commonly in the acute care setting, this module serves to equip critical care practitioners with the necessary knowledge and skills for critical thinking to make informed clinical decisions in a critical care unit.
Advanced Critical Care Nursing Science I	This module aims to provide students with an understanding and comprehensive foundation on the principles of critical care nursing practice and a continuity of basic nursing science from general nursing training. Coronary, cardiovascular, respiratory, neurological diseases and altered conditions of these major body systems are covered in depth with integration of pathophysiology and applied human anatomy. Interpretation of relevant laboratory and diagnostic studies results are included and advanced nursing skills that are performed commonly in the acute care setting, this module serves to equip critical care practitioners with the necessary knowledge of diseases and skills for critical thinking to make informed clinical decisions.
Advanced Critical Care Nursing Science II	This module aims to provide students with an understanding and comprehensive foundation on the principles of critical care nursing practice and a continuity of basic nursing science from general nursing training. Gastro-intestinal, hepato-biliary, endocrine and nephrology diseases and altered conditions of these major body systems are covered in depth with integration of pathophysiology and applied human anatomy. Interpretation of relevant laboratory and diagnostic studies results are included and advanced nursing skills that are performed commonly in the acute care setting, this

Advanced Critical Care Nursing Practice

module serves to equip critical care practitioners with the necessary knowledge of diseases and skills for critical thinking to make informed clinical decisions.

This module aims to provide students with an understanding and comprehensive foundation on the principles of critical care nursing practice. It will also provide comprehensive skills necessary to obtain data through health history, physical examination together with identifying relevant laboratory data, monitoring adjuncts and advanced nursing skills that are performed commonly in the acute care setting. This module serves to equip critical care practitioners with the necessary skills for critical thinking to make informed clinical decisions in the management of critically ill patients.

POST-DIPLOMA CERTIFICATE IN ADVANCED CLINICAL PRACTICUM IN CRITICAL CARE NURSING

Modules	Synopsis
Advanced Clinical Practicum in Critical Care Nursing	The module provides the student opportunities to provide direct patient / family care and gain clinical experience in critical care settings, acute and caring of older adults with acute and chronic disorders in acute setting like coronary care, cardiovascular, neurosurgical and medical surgical intensive care units. Nurses will provide care for the critically ill patients and support their families. These clinical practices provide an overall analysis of the practice of critical care nursing.

ADVANCED DIPLOMA IN NURSING (CHRONIC DISEASE MANAGEMENT)

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of FOUR Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN CHRONIC DISEASE NURSING PRACTICE AND MANAGEMENT

Modules	Synopsis
Health Assessment and Clinical Decision Making	This module aims to provide the students with comprehensive foundation and principles of health assessment in clinical nursing practice. It will also provide comprehensive skills necessary to obtain data through complete health history taking and physical examination. Emphasis will be placed on the holistic and comprehensive approach of assessment. Variations of normality in the older persons will be taken into considerations in the assessment findings. Together with the relevant laboratory data, this module also equips the students with necessary knowledge underpinning the skills to make informed clinical decisions.
Applied Pathophysiology and Pharmacology	This module aims to provide students with knowledge and understanding of pathophysiologic and pharmacologic considerations. This module will enable the students to gain a better understanding of underlying disease processes and relate the basic principles of pharmacology and the nursing process to selected drugs and their therapeutic use.
Evidence-Based Practice	This module aims to provide the students with the knowledge and application underpinnings the evidence-based practice. Based on the 5 steps of evidence-based practice, the students will learn to convert information into an answerable clinical question (ask), track down best evidence for answering the question (acquire), critically appraise evidence (appraise), integrate evidence into clinical decision making (application), and evaluate and seek ways to improve the next time (audit).
Care Management Across Life Span	This module focuses on the current trends that affect the healthcare and financial systems in Singapore. Emphasis will be placed on integrated care, collaboration and coordination to provide continuity of care of patients with special needs in a variety of healthcare settings. The principles and concepts of palliative care, case management, disease management, medical-surgical nursing and transitional care will be discussed.

POST-DIPLOMA CERTIFICATE IN CLINICAL PRACTICUM IN ADVANCED NURSING

Modules	Synopsis
Clinical Practicum in Advanced Nursing	The module provides the student opportunities to synthesize and apply the knowledge and practical skills learned in Post-Diploma Certificate 1 (<i>Health Assessment and Clinical Decision Making, Applied Pathophysiology and Pharmacology, Evidence-Based Practice and Care Management Across Life Span</i>) to the 2-week of broad-based Clinical Practicum in Advanced Nursing module. The students will be assigned to one of the following clinical settings that is different from their specialty attachment. <ul style="list-style-type: none"> • Acute care • Intermediate and long-term care • Primary care • Geriatric centres • Mental Health care

POST DIPLOMA CERTIFICATE IN ADVANCED CHRONIC DISEASE NURSING

Modules	Synopsis
Fundamentals in Chronic Disease Management	This module aims to provide a comprehensive framework to develop nurses in counselling skills and implement prevention and behaviourally based instruction for the community. The focus will be on the

Advanced Chronic Disease Nursing Science I	<p>use of person-centred therapy, motivational interviewing and cognitive behavioural therapy to change the behaviours of clients with unhealthy lifestyle practices.</p> <p>The module aims to develop students' knowledge on the teaching-coaching function of the nurse in health promotion, screening and disease prevention activities across the life span for individuals, families and communities. Using a holistic approach which values the physical, mental, social and spiritual dimensions of health and their inter-relationships, it will cover major aspects of health education strategy and pedagogy in teaching of chronic diseases.</p>
Advanced Chronic Disease Nursing Science II	<p>This course aims to provide a fundamental key concepts, interventions and principles of case management and rehabilitation in the acute, community and home settings. The module also optimises the management and care of patient with complications of chronic disease in cardiovascular and respiratory system, in addition to cardiac, stroke, and pulmonary rehabilitation.</p>
Advanced Chronic Disease Nursing Science III	<p>This course aims to provide a fundamental key concepts, interventions and principles of palliative care nursing practice across the continuum. The module optimises the management and care of patient with non-malignant diseases, in particular end-stage organ failure. The nursing management of patients with end of life care and used of common complementary therapies are been explored.</p>

POST-DIPLOMA CERTIFICATE IN ADVANCED CLINICAL PRACTICUM IN CHRONIC DISEASE NURSING

Modules	Synopsis
Advanced Clinical Practicum in Chronic Disease Nursing	<p>The module provides clinical training and offers students the opportunities to provide direct patient/family care and gain clinical experience in diverse health care settings. Students will be attached to specialised areas such as case/care management in the primary health care, acute to home, community and palliative care facilities with interdisciplinary experience in caring of patients with chronic and life-limiting conditions.</p>

ADVANCED DIPLOMA IN PERIOPERATIVE NURSING

You will be conferred an Advanced Diploma qualification from Ngee Ann Polytechnic upon completion of FOUR Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN APPLIED SCIENCES IN ADVANCED NURSING

Modules	Synopsis
Health Assessment and Clinical Decision Making	This module aims to provide the students with comprehensive foundation and principles of health assessment in clinical nursing practice. It will also provide comprehensive skills necessary to obtain data through complete health history taking and physical examination. Emphasis will be placed on the holistic and comprehensive approach of assessment. Variations of normality in the older persons will be taken into considerations in the assessment findings. Together with the relevant laboratory data, this module also equips the students with necessary knowledge underpinning the skills to make informed clinical decisions.
Applied Pathophysiology and Pharmacology	This module aims to provide students with knowledge and understanding of pathophysiologic and pharmacologic considerations. This module will enable the students to gain a better understanding of underlying disease processes and relate the basic principles of pharmacology and the nursing process to selected drugs and their therapeutic use.
Evidence-Based Practice	This module aims to provide the students with the knowledge and application underpinnings the evidence-based practice. Based on the 5 steps of evidence-based practice, the students will learn to convert information into an answerable clinical question (ask), track down best evidence for answering the question (acquire), critically appraise evidence (appraise), integrate evidence into clinical decision making (application), and evaluate and seek ways to improve the next time (audit).
Care Management Across Life Span	This module focuses on the current trends that affect the healthcare and financial systems in Singapore. Emphasis will be placed on integrated care, collaboration and coordination to provide continuity of care of patients with special needs in a variety of healthcare settings. The principles and concepts of palliative care, case management, disease management, medical-surgical nursing and transitional care will be discussed.

POST-DIPLOMA CERTIFICATE IN CLINICAL PRACTICUM IN ADVANCED NURSING

Modules	Synopsis
Clinical Practicum in Advanced Nursing	The module provides the student opportunities to synthesize and apply the knowledge and practical skills learned in Post-Diploma Certificate 1 (<i>Health Assessment and Clinical Decision Making, Applied Pathophysiology and Pharmacology, Evidence-Based Practice and Care Management Across Life Span</i>) to the 2-week of broad-based Clinical Practicum in Advanced Nursing module. The students will be assigned to one of the following clinical settings that is different from their specialty attachment. <ul style="list-style-type: none"> • Acute care • Intermediate and long-term care • Primary care • Geriatric centres • Mental Health care

POST DIPLOMA CERTIFICATE IN ADVANCED PERIOPERATIVE NURSING

Modules	Synopsis
Fundamentals in Perioperative Nursing I	This module will provide the student with an overview of the natural sciences pertaining to the practice of nursing in the operating theatre and its environment. It explores scientific concepts underpinning the practice and allows the student to have an overall analysis of knowledge and skills required by the operating theatre clinical specialist. It includes the theory and techniques for the preparation of sterile supplies as well as planning for the surgical procedure. The student will also have an understanding of ethical and legal issues pertaining to perioperative practice and understand the role of a perioperative nurse as a patient advocate to provide safe and competent care for the surgical patient.
Fundamentals in Perioperative Nursing II	This module will provide the student with an understanding of the nursing implications and skills required for a patient undergoing anaesthesia in the perioperative setting. Students will be able recognize complications and manage emergency situations for the surgical patient. The module will also equip students with understanding of the therapeutic needs of patients experiencing surgical intervention. It includes basic theory and skills for counselling to prepare the student to manage challenging situations in the perioperative setting.
Advanced Perioperative Nursing Science I	This module provides students with an overview of the perioperative nursing consideration in various surgical procedures. Perioperative nursing is a team concept and includes receiving the surgical patient to the operating room, planning for the position for surgery, skin preparation, choice of instrumentation and anticipating the sequence and needs of surgery.
Advanced Perioperative Nursing Science II	This module provides students with an overview of the perioperative nursing consideration in specialised surgical procedures. Perioperative nursing is a team concept and includes receiving the surgical patient to the operating room, planning for the position for surgery, skin preparation, choice of instrumentation and anticipating the sequence and needs of surgery.

POST-DIPLOMA CERTIFICATE IN ADVANCED CLINICAL PRACTICUM IN PERIOPERATIVE NURSING

Modules	Synopsis
Advanced Clinical Practicum in Perioperative Nursing	The module provides the student opportunities to synthesize the knowledge learned from the other eight modules and gain clinical experience in perioperative settings. The clinical practice provides an overall analysis of the practice of perioperative nursing.

SPECIALIST DIPLOMA IN ANALYTICAL SCIENCE

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN ENVIRONMENTAL & CHEMICAL ANALYSES

Modules	Synopsis
Chemical Safety	Provides understanding on the identification and effects of hazardous substances on the body and the implementation of control measures.
Gas Chromatography	Covers the detailed operations of Gas Chromatography from method development to method validation and troubleshooting.
Environmental Testing	Introduces key aspects of environmental & water chemistry and air quality monitoring for application in pollution control, resource recovery and water and wastewater treatment.
Analytical Applications and Management 1	Gives participants an opportunity to apply their skills and knowledge on a case study project based on the PDCs covered in the semester, prepare a report and make a presentation.

POST-DIPLOMA CERTIFICATE IN ADVANCED ANALYTICAL METHODS

Modules	Synopsis
Liquid Chromatography	Covers the detailed operations of HPLC, UHPLC, and its associated detectors from method development to method validation and troubleshooting.
Mass Spectrometry	Introduces principles of mass spectrometry and its instrumentation in LC-MS, GC-MS, ICP-MS and MS-MS. It also covers interpretation of mass spectra and the application of mass spectrometry.
Quality Assurance & Quality Control	Introduces GLP (Good Laboratory Practices), quality standards, standard templates, CAPA (corrective and preventive action), change control and deviations.
Analytical Applications and Management 2	Gives participants an opportunity to apply their skills and knowledge on a case study project based on the PDCs covered in the semester, prepare a report and make a presentation.

SPECIALIST DIPLOMA IN COMMUNITY GERONTOLOGY NURSING

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN COMMUNITY GERONTOLOGY NURSING 1

Modules	Synopsis
Health Assessment and Clinical Decision Making (45 hours)	Provides foundation and principles of health assessment, comprehensive skills necessary to obtain data through complete health history taking and physical examination.
Applied Pathophysiology and Pharmacology (45 hours)	Introduces knowledge and understanding of pathophysiologic and pharmacologic considerations in gerontology.

POST-DIPLOMA CERTIFICATE IN COMMUNITY GERONTOLOGY NURSING 2

Modules	Synopsis
Principles and Concepts of Community Gerontology Nursing (60 hours)	Provides the essential knowledge focus, framework, tools and skills the nurse needs to know when caring for the older adults.
Primary, Home Healthcare and Palliative Care Nursing (60 hours)	Addresses the major primary health care conditions commonly seen by the community gerontology nurse in the primary health care clinic.
Clinical Practicum in Community Gerontology Nursing	Enables consolidation of clinical care and skills from discharge planning at acute or community hospitals to supporting service organizations. Evaluates community based services and gain experience in social assessment, care planning of the community dwelling elders and the step down community services.

SPECIALIST DIPLOMA IN CONSUMER BANKING

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN BANKING PRACTICE & ANALYTICS

Modules	Synopsis
Consumer Banking Branch Operations & Control	Provides basic licensing conditions, guidelines and best practices and an introduction to legislation and regulations pertaining to Consumer Banking, including Know-Your-Customer (KYC).
Consumer Banking Analytics	Provides fundamentals of financial data analytics in Consumer Banking. It also focuses on developing new analytical strategies and skills required to generate insights to drive marketing and business decisions.
Consumer Banking in Practice 1	Gives participants an opportunity to obtain knowledge of current issues, practices and developments that pertain to or impact the banking industry, especially in the area of retail and consumer banking.

POST-DIPLOMA CERTIFICATE IN CONSUMER BANKING PRODUCTS & DIGITAL MARKETING

Modules	Synopsis
Consumer Banking Digital Marketing & Channel Design	Provides an understanding of the rise of digital banking and marketing through technology and its implications in the industry.
Consumer Banking Products & Development	Participants will learn to propose marketing system and appreciate the impact of marketing variables in the formulation of marketing decisions.
Consumer Banking in Practice 2	Gives participants an opportunity to obtain knowledge of current issues, practices and developments that pertain to or impact the banking industry, especially in the area of retail and consumer banking.

SPECIALIST DIPLOMA IN CONSUMER AND PERFORMANCE ANALYTICS

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN CONSUMER ANALYTICS

Modules	Synopsis
Data Design & Analytics	Provides concepts of consumer analytics to develop efficient analysis and reporting solutions. Teaches participants how to organize data and automate repetitive tasks.
Social Media Marketing and Web Analytics	Introduces business-related activities and transactions taking place in the social media space, including digital sales and marketing, consumer support etc.

POST-DIPLOMA CERTIFICATE IN PERFORMANCE ANALYTICS

Modules	Synopsis
Business Performance Analytics	Introduces concepts of enterprise performance management and critical analysis and decision-making on the performance of the business.
Data Visualisation & Analytics	Provides understanding of how data can be represented through pictorial and graphical formats for easier but rich analysis and presentation.

SPECIALIST DIPLOMA IN DIGITAL BRANDING & SOCIAL MEDIA STRATEGIES

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN DIGITAL BRANDING

Modules	Synopsis
Integrated Marketing & Brand Management	Focuses on how brands can leverage on digital transformation to initiate brand development, management and assessment of brands in a regional/global setting.
Issues & Crisis Management	Explores how organizations and brands can be better prepared for situations arising from social media that may pose a threat to their global reputations.
Creative Content Development	Focuses on how digital story telling can help brands showcase their philosophy, vision, products and services to drive profitable customer action.

POST-DIPLOMA CERTIFICATE IN SOCIAL MEDIA STRATEGIES

Modules	Synopsis
Social Media Strategies	Introduces strategic planning framework to help companies increase brand recognition, brand loyalty and boost conversion rates.
Data Analytics	Equips participants with the ability to deliver value for the brand by leveraging on descriptive, predictive and prescriptive analytics to comprehend, forecast and formulate solutions.
Campaign Proposal	Participants will apply their newly-acquired skills and knowledge to develop and present a Social Media Campaign proposal which includes research, strategy, planning and evaluation.

SPECIALIST DIPLOMA IN EARLY CHILDHOOD LEARNING SUPPORT

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN THE FOUNDATIONS OF LEARNING SUPPORT IN PRE-SCHOOLS (PDC 1)

Modules	Synopsis
Principles of Assessment	Equips participants with the skills and dispositions required for the purpose of assessing learners' needs in order to plan for intervention.
Constructing a Meaningful Educational Setting	Builds on participants' knowledge of language, literacy and social, emotional and motor development of children for further development of these domains.
Professional Roles in Educational Support	Introduces the professional roles of various members of the community for the support of children with development needs. *Teachers may be required to take time-off from work as the learning journeys will be held in the day.

POST-DIPLOMA CERTIFICATE IN LEARNING SUPPORT PRACTICE (PDC 2)

Modules	Synopsis
Assessment and Screening Practices	Builds participants' proficiency with screening tools prescribed in the Development Support Programme (DSP) to identify children who may have mild developmental needs.
Language and Literacy Support	Introduces the implementation of the Language Development Support Packages as well as the Literacy Support Package used in the Development Support Programme.
Social Skills and Handwriting Support	Covers the process and practical knowledge of the Social Skills Support Package and the Handwriting Support Package used in the Development Support Programme.
Collaboration with Stakeholders	Introduces participants to the skills and knowledge to collaborate and communicate with teachers and caregivers. Participants will learn to provide full in-class support to the early childhood teachers by using information gleaned from the packages (assessment and intervention data) in order to differentiate lesson design and delivery.

SPECIALIST DIPLOMA IN ELECTRICAL DESIGN & OPERATION

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs)

POST-DIPLOMA CERTIFICATE IN ELECTRICAL DESIGN AND MANAGEMENT

Modules	Synopsis
Electrical System Design	Aims to refresh and deepen participants' knowledge in the design of electrical distribution systems for commercial and industrial installations.
Electrical Project Management	Equips participants with the latest project management methodology and skills to work at management level on large industrial, commercial and domestic projects.
*Project I	In this module, students are expected to propose a module-related project to demonstrate the knowledge and skills that they have acquired from the modules. The module will be graded based on a final presentation and report.

POST-DIPLOMA CERTIFICATE IN ELECTRICAL OPERATION AND MAINTENANCE

Modules	Synopsis
Testing and Commissioning of Electrical Systems	Equips participants with the technical knowledge and skills for testing and commissioning of power distribution systems.
Operation and Maintenance of Electrical Systems	Aims to deepen participants' skills and knowledge in the safe operation and maintenance of power distribution systems.
Project II	In this module, students are expected to propose a module-related project to demonstrate the knowledge and skills that they have acquired from the modules. The module will be graded based on a final presentation and report.

SPECIALIST DIPLOMA IN IT NETWORK SYSTEMS

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN INTERNETWORK

Modules	Synopsis
Basic Networks	Introduces the architecture, components, and operations of routers and switches in a small network. It also provides principles and structure of IP addressing and the fundamentals of Ethernet.
Scalable Networks	Equips participants with skills to configure and troubleshoot routers and switches and resolve common issues with OSPF.

POST-DIPLOMA CERTIFICATE IN IC WAN & Security

Modules	Synopsis
Wide Area Networks	Introduces the WAN technologies and network services to understand the selection criteria of network devices and WAN technologies to meet network requirements.
Network Security	Introduces the concepts of network security such as threats and attacks and securing LAN connections.

SPECIALIST DIPLOMA IN MARINE DESIGN

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN ADVANCED NAVAL ARCHITECTURE

Modules	Synopsis
Advanced Naval Architecture 1	Introduces advanced knowledge of marine structure stability and IMO requirements to enable students to perform such task according to IMO Conventions.
Advanced Naval Architecture 2	Equips participants with advanced knowledge of the marine structure strength, on evaluating midship scantlings to satisfy classification requirement, and ship resistance, motion and propulsion, including dynamic positioning.
Project in Marine Design	Students get to apply the knowledge learnt from the previous two modules in the context of naval architecture to demonstrate their understanding of domain knowledge, by developing OJT tasks from existing workplace experience.

POST-DIPLOMA CERTIFICATE IN MARINE CAD

Modules	Synopsis
Computer Aided Design (Hull)	Equips participants with the skills and knowledge of widely used marine industry software to perform computer aided design work in hull modeling.
Computer Aided Design (Outfitting)	Imparts skills and knowledge of widely used marine industry software to perform computer aided design work in outfitting modeling.
Project in Marine CAD	Students get to apply the knowledge learnt from the previous two modules to demonstrate their understanding of domain knowledge, by developing OJT tasks from existing workplace experience.

SPECIALIST DIPLOMA IN MARINE PRODUCTION

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN SHIPYARD OPERATIONS

Modules	Synopsis
Marine Production Process	Aims to refresh and deepen students' knowledge of production processes in marine production yards incorporating marine safety practices, standards and requirements.
Yard Layout Design	Provides knowledge and skills in marine production yards layout design for considerations of various business functions and production-flow efficiencies.
OJT in Shipyard Operations (for ELP participants)	Students get to apply the knowledge learnt from the previous two modules in the context of the workplace environment to demonstrate their understanding of domain knowledge, by developing OJT tasks from existing workplace experience.

POST-DIPLOMA CERTIFICATE IN MARINE COMMISSIONING & SPECIALISATION

Modules	Synopsis
Marine Commissioning	Aims to equip students with technical knowledge and procedures for successful commissioning to be carried out, on the importance of the commissioning process flow including safety aspects, procedures incorporating QA and QC standards and practices and requirements of various systems.
Marine Specialization in Hull, Outfitting & Shipwright	Provides specialisation knowledge and skills in marine production specialization in discipline of Hull, Outfitting and Shipwright in views of scope of work, tasks performed at stages and standard procedures in production, planning and applying marine industry common practices, standards and other requirements in carrying out the inspection activities.
OJT in Marine Commissioning & Specialization (for ELP participants)	Students get to apply the knowledge learnt from the previous two modules in the context of the workplace environment to demonstrate their understanding of domain knowledge, by developing OJT tasks from existing workplace experience.

SPECIALIST DIPLOMA IN MICROELECTRONICS

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN SEMICONDUCTOR TECHNOLOGY

Modules	Synopsis
Principles of Wafer Fabrication Technology	Provides an overview of IC manufacturing, pressure measurement, vacuum technology, yield calculations and contamination control.
Advanced Wafer Fabrication Process Technology I	Introduces advanced concepts in IC processing such as photolithography, ion implantation and sputtering.
Integrated Circuit Assembly Technologies	Provides knowledge of integrated circuit (IC) packaging processes, TAB and Flip Chip assembly processes, and board assembly using surface mount IC packages.

POST-DIPLOMA CERTIFICATE IN IC MANUFACTURING

Modules	Synopsis
Advanced Wafer Fabrication Process Technology II	Builds on from Module 2 of the Post-Diploma Certificate in Semiconductor Technology. It introduces underlying principles that govern, chemical mechanical polishing, chemical vapor deposition, plasma etching and epitaxy.
Applications of Wafer Fabrication Technology	Imparts real examples of the application of Wafer Fabrication Technology to the fabrication of integrated circuits, photovoltaic cells, micro-electro mechanical systems (MEMS), and flat panel displays.
IC Testing, Failure Analysis & Reliability	Provides knowledge and skills in the areas of test technology, failure analysis and reliability.

SPECIALIST DIPLOMA IN PALLIATIVE CARE NURSING

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN ESSENTIAL CLINICAL KNOWLEDGE IN PALLIATIVE CARE (FOR NURSES AND ALLIED HEALTHCARE PROFESSIONALS)

Modules	Synopsis
Common Cancers	Introduces a broad overview of cancer biology, screening, diagnosis, treatment and clinical trials.
Pain and Symptom management	Covers the pathophysiology, assessment and management of common symptoms in life-limiting illnesses, in particular cancer.
Palliative care in non-cancer illnesses	Covers the role of palliative care in life-limiting non-malignant illness, in particular end-stage organ failure.
Communication and Psychosocial skills	Focuses on psychosocial intervention issues and strategies applicable to the oncology and palliative care nurse.

POST-DIPLOMA CERTIFICATE IN ESSENTIAL CLINICAL SKILLS IN PALLIATIVE CARE (FOR NURSES ONLY)

Modules	Synopsis
History Taking and Physical Assessment	Teaches participants history taking and physical assessment of patients and how to analyse and state the clinical implications of abnormal routine lab results.
Emergencies in Oncology/Palliative Care	Covers oncology emergencies and common treatment-related cancer symptoms and their management.
Clinical Nursing Skills and Complementary Therapy	Aims to enable participants to refine their nursing skills and enhance their knowledge in caring for terminally ill patients. Includes appreciation of common complementary therapies.
Clinical Consolidation	Aims to develop participants' therapeutic communication and counseling skills towards oncology and palliative client.

SPECIALIST DIPLOMA IN SPEECH TRAINING, STORYTELLING AND LITERACY TEACHING

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST DIPLOMA CERTIFICATE IN SPEECH TRAINING AND STORYTELLING

Modules	Synopsis
Speech Training for Preschool Educators	Aims to enhance the speech skills needed in an English language teacher. It also covers essential background in phonological theory and provides the opportunity to exercise skills in methods of observation and practice in speech training.
Storytelling for Preschool Teaching and Learning	Provides an in-depth understanding of storytelling, its function, modes, skills and strategies that can be utilized in the classroom practically, based on current research and practices within the literacy context.

POST DIPLOMA CERTIFICATE IN LITERACY TEACHING

Modules	Synopsis
Assessment of Literacy and Language Skills	Introduces the skills and techniques to assess literacy and language skills in young children of various language proficiencies. Participants will also be introduced to common literacy issues and their causes.
Language Acquisition through Process Drama	Provides technical and practical skills to lead young children in critical and creative thinking skills through authentic process drama experiences, involving the key stages of the process i.e. reaction, interaction and reflection.

SPECIALIST DIPLOMA IN SUSTAINABLE FACILITIES MANAGEMENT

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN FACILITIES MANAGEMENT

Modules	Synopsis
Applied Property Management	Introduces property management skills including management and maintenance of properties. It also covers the concept of strata titles, management of strata-titled properties with reference to Building Maintenance and Strata Management Act (BMSMA).
Building Services Management	Provides the management and operation of all the engineering systems that are installed in the built environment with emphasis on environmental sustainability and optimizing cost-effectiveness.
Fire Safety Management	Provides the knowledge on the roles of Fire Safety Manager such as management of evacuation procedures, casualty management and case studies.

POST-DIPLOMA CERTIFICATE IN BUILT ENVIRONMENT MANAGEMENT

Modules	Synopsis
Green Building Management	Provides knowledge in green building features and design strategies which includes study of Green Mark Schemes and the application of sustainable green technologies.
Workplace Health & Risk Management	Focuses on workplace safety, hazards and risk management for different organisations and physical environment.
Facilities Management Practice	Gives participants an opportunity to apply their skills and knowledge on a case study project designed by the lecturer and prepare a report and make a presentation on how they had applied the knowledge in the project.

SPECIALIST DIPLOMA IN VETERINARY CLINICAL PRACTICE

You will be conferred a Specialist Diploma qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN CLINICAL PROCEDURES

Modules	Synopsis
Veterinary Practice Management	Provides an understanding of statutory regulations covering licensing, import and export of pet animals, and ethical compliances (i.e. WSH act and Risk Assessment Regulations) in veterinary practice.
Emergency and Critical Care	Introduces fundamentals of fluid therapy and helps participants to gain an understanding of transfusion medicine.
Pain Management and Anaesthesia	Equips participants with effective communication to clients in ensuring delivery of appropriate analgesia for patients. It will also cover anaesthetic protocol selection and the proper execution of anaesthesia.

POST-DIPLOMA CERTIFICATE IN PROFESSIONAL PRACTICES

Modules	Synopsis
Pet Industry Operations and Regulations	Provides an understanding of the operations and regulations of pet related industry and veterinary clinics in Singapore.
Veterinary Products and Services	Introduces basic concepts and knowledge of customer service principles and skills, and marketing of veterinary products and services.
Shelter Management	Provides participants with basic management principles of an animal shelter. It also covers information about basic shelter programs.
Clinical Applications	Candidates will complete a project which requires them to analyze and reflect on the skills and competencies of an animal healthcare/welfare related job scope and provide a presentation at the end of the module.

DIPLOMA (CONVERSION) IN DIGITAL MEDIA DESIGN

You will be conferred a Diploma (Conversion) qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN DIGITAL MEDIA MARKETING

Modules	Synopsis
Digital Media Principles and Practices	Provides foundation in theoretical and practical skills in digital media and its impact on business and communications. The focus of this module is User Centred Design.
Digital Publishing	Investigates the design communication for mobile and e-publications, with an emphasis on developing creative modern concepts for mobile devices.
Social Media Marketing	Equips participants with insightful and practical skills for conceptualizing and implementing a winning social media campaign.

POST-DIPLOMA CERTIFICATE IN MEDIA DESIGN

Modules	Synopsis
New Media Design	Focuses on specialist knowledge in areas such as design, video editing, marketing communication, and improving user experience for web and mobile.
Visual Design	Provides an insight into the mixed discipline of design and digital media to create compelling content in support of the media industries.
Studio (covers Research, Portfolio and Branding)	Evaluate knowledge and skills acquired during the course of the DCDMD to create digital portfolio from conception to conclusion.

DIPLOMA (CONVERSION) IN EARLY CHILDHOOD TEACHING (FULL TIME AND PART TIME)

You will be conferred a Diploma (Conversion) qualification from Ngee Ann Polytechnic upon completion of FOUR Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN FUNDAMENTALS OF EARLY CHILDHOOD EDUCATION

Modules	Synopsis
Child Development and Early Education	Provides knowledge on the theories of how young children develop and learn in the physical, cognitive and socio-emotional domains which are fundamentals to the development of different perspectives and approaches to early childhood education.
Safety, Health, Hygiene and Nutrition	Highlights the role of the early childhood educator in providing a suitable environment for the care and safety of children. Introduces common childhood illnesses, managing daily routines, and be first aid trained. Gain understanding of issues relating to child abuse and neglect and learn how to detect, manage and report them.
Language and Literacy	Introduces the conceptual framework for designing and developing experiences that would equip young children with speaking, listening and basic reading and writing skills. Seeks to develop in young children an appreciation for a variety of children's literature.
Motor Skills Development in Young Children	Equips participants with knowledge and skills to help young children develop perceptual, fine and gross motor skills. Learn to design appropriate indoor and outdoor play and movement activities for learning.

POST-DIPLOMA CERTIFICATE IN DIVERSITY IN TEACHING AND LEARNING

Modules	Synopsis
Individual Differences in Learning	Introduces individual differences in learning among young children and the strengths and learning needs of children with special needs including gifted children in relation to socio-cultural differences that affects learning and development.
Aesthetics & Creative Expression in Young Children	Teaches participants how to ideate, explore opportunities, and to instill a sense of aesthetics appreciation in young children through experiencing a repertoire of art and music-making media and techniques.
Assessment and Support for Learning	Equips participants with the skills to carry out effective and timely observations and documentations of learning and behaviour during the early years. Be guided to plan according to children's strengths and to support their transitions to formal schooling.
Teaching Practicum I	Participants acquire beginning teacher's technical knowledge and competencies through hands-on experiences. Learn to connect theory with practice by acquiring the skills in observation, documentation and planning for teaching and reflecting in a range of classroom situations.

POST-DIPLOMA CERTIFICATE IN DESIGN IN TEACHING AND LEARNING

Modules	Synopsis
Numeracy in the Early Years	Provides principles and strategies for facilitating children's acquisition of mathematical concepts and skills in an authentic context. Learn to develop manipulatives and use authentic resources to provide concrete math and play experiences.
Curriculum Planning and Resources	Teaches participants to plan and implement learning experiences that are developmentally and culturally appropriate for preschool programmes. Introduces the use of information communication technology as a tool for teaching and learning.
Discovery of the World	Equips participants in providing opportunities for children to explore and to construct knowledge of the world around them. Learn to guide children to apply inquiry or process skills in their curiosity to discover and appreciate the environment.
Creating and Managing the Learning Environment	Provides knowledge and skills to create and organise the environment for play and learning for early childhood education setting. Learn to use strategies for communication, for effective teaching and transitions, and set up appropriate learning areas to enhance the developmental domains of children.

POST-DIPLOMA CERTIFICATE IN PLANNING AND PROFESSIONAL PRACTICE

Modules	Synopsis
<u>Partnership with Families and Communities</u>	Provides exposures to the changing social landscape and the diverse backgrounds of families that they will be working with. Explore a variety of strategies to work with families in the education of children.
Professional Development and Personal Growth	Introduces the responsibilities and code of conduct for teachers through greater self-awareness and reflection, and the need for effective communication, collaboration and partnership with peers.
Independent Study Project *	Provides opportunity to explore, investigate, and critically analyse an area of interest in the early childhood education concerning the early years' curriculum and setting.

Teaching Practicum II

Through hands-on experience, learning journeys and setting up of learning areas, students will learn to connect theory with practice, be reflective in the acquisition of skills necessary for planning and teaching effectively in classroom situations.

DIPLOMA (CONVERSION) IN FACILITIES MANAGEMENT

You will be conferred a Diploma (Conversion) qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN FACILITY SYSTEMS AND TECHNOLOGY

Modules	Synopsis
Mechanical Systems	Provides basic principles of operation of various types of air-conditioning, mechanical ventilation, fire protection, water and sanitary systems as well as installation and maintenance requirements.
Electrical Systems	Provides understanding of electricity supply and circuits, deregulation of energy markets and its impact as well as electrical systems and communication.
Smart and Green Building Technologies	Covers the application of sustainable and green building design concept to our built environment on building performance. It also cover the application of technologies to improve systems energy efficiency.

POST-DIPLOMA CERTIFICATE IN MANAGEMENT OF FACILITIES

Modules	Synopsis
Property and Asset Management	Equips participants with the knowledge to prepare and select contractual arrangements, manage different types of tendering arrangements and more. The above knowledge will be referenced to the Building Maintenance and Strata Management Act, and other building legislations.
Fire Safety Management	Provides the knowledge and practices of fire safety and the roles, responsibilities and practical skills as a fire safety manager.
Security and Risk Management	Equips participants with the knowledge to identify security risk, workplace safety and health management/ hazards, apply appropriate risk assessment and management techniques and hazards control measures.

DIPLOMA (CONVERSION) IN MARINE & OFFSHORE TECHNOLOGY

You will be conferred a Diploma (Conversion) qualification from Ngee Ann Polytechnic upon completion of TWO Post-Diploma Certificates (PDCs) within a two-year validity period.

POST-DIPLOMA CERTIFICATE IN NAVAL ARCHITECTURE AND MARINE ENGINEERING

Modules	Synopsis
Fundamentals of Marine Engineering	Provides basic understanding of marine machinery and fundamental knowledge of marine main propulsion system, alternators and steering gears.
Fundamentals of Naval Architecture	Introduces fundamentals of main compartments and the structural components of ships. It also covers calculations related to geometry of ships.

POST-DIPLOMA CERTIFICATE IN OFFSHORE TECHNOLOGY

Modules	Synopsis
Fundamentals of Marine Offshore Design	Provides basic knowledge and understanding of intact stability and trim of a ship and calculations on stability of ships according to the International Maritime Organization (IMO) requirements.
Fundamentals of Offshore Oil & Gas Technology	Provides a broad overview of the offshore oil and gas industry in the ASEAN region and other parts of the world.
Fundamentals of Offshore Engineering	Provides understanding of the design considerations for offshore structures. It also provides participants the opportunities to explore the structural analysis of offshore platforms.

SPECIALIST DIPLOMA IN FINTECH

POST-DIPLOMA CERTIFICATE IN FINTECH ANALYTICS

Modules	Synopsis
FinTech & Financial Services	This module introduces students to core financial services, banking and new FinTech business models. Students will also learn and compare the current financial processes to new FinTech business models and evaluate their strategic, operational and regulatory requirements based on Singapore's regulatory policies
Financial Analytics Project	This module enables students to develop a financial analytics project using business intelligence techniques and tools.

POST-DIPLOMA CERTIFICATE FINTECH APPS DEVELOPMENT

Modules	Synopsis
Open Banking APIs Development	This module will introduce students with the Object Oriented concepts before moving on to the skills required to develop a web application using web application programming interfaces (APIs). Students will be introduced to an integrated development environment that will enable them to design and develop web applications and web API over the Internet. They will learn how to make use of web development technologies such as ASP.NET framework, jQuery for rich internet applications, data interchange formats such as JSON. The use of APIs is aligned with the open architecture economy. Students will get to use APIs from financial industry among others. This module aims to provide students with a good understanding of the web development architecture and service layer as well as the various issues related to Web Application Development.
Blockchain and Smart Contracts Development	This module will introduce students to block chain concepts and how these are being applied using industry use cases. Students will also have hands on experience to create transactions on a block chain to better understand the underlying concepts. Students will get a chance to develop their own block chain prototype which includes defining the assets, transactions and participants. They will have the opportunity to build their own Smart Contracts to be executed on this block chain.

ADVANCED DIPLOMA IN MEDICAL SURGICAL NURSING

POST-DIPLOMA CERTIFICATE IN APPLIED SCIENCES IN ADVANCED NURSING

Modules	Synopsis
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Health Assessment and Clinical Decision Making	This module aims to provide the students with comprehensive foundation and principles of health assessment in clinical nursing practice. It will also provide comprehensive skills necessary to obtain data through complete health history taking and physical examination. Emphasis will be placed on the holistic and comprehensive approach of assessment. Variations of normality in the older persons will be taken into considerations in the assessment findings. Together with the relevant laboratory data, this module also equips the students with necessary knowledge underpinning the skills to make informed clinical decisions.
Applied Pathophysiology and Pharmacology	This module aims to provide students with knowledge and understanding of pathophysiologic and pharmacologic considerations. This module will enable the students to gain a better understanding of underlying disease processes and relate the basic principles of pharmacology and the nursing process to selected drugs and their therapeutic use.
Evidence-Based Practice	This module aims to provide the students with the knowledge and application underpinning the evidence-based practice. Based on the 5 steps of evidence-based practice, the students will learn to convert information into an answerable clinical question (ask), track down best evidence for answering the question (acquire), critically appraise evidence (appraise), integrate evidence into clinical decision making (application), and evaluate and seek ways to improve the next time (audit).
Care Management Across Life Span	This module focuses on the current trends that affect the healthcare and financial systems in Singapore. Emphasis will be placed on integrated care, collaboration and coordination to provide continuity of care of patients with special needs in a variety of healthcare settings. The principles and concepts of palliative care, case management, disease management, medical-surgical nursing and transitional care will be discussed.

POST-DIPLOMA CERTIFICATE IN CLINICAL PRACTICUM IN ADVANCED NURSING

Modules	Synopsis
Clinical Practicum in Advanced Nursing	The module provides the student opportunities to synthesize and apply the knowledge and practical skills learned in Post-Diploma Certificate 1 (Health Assessment and Clinical Decision Making, Applied Pathophysiology and Pharmacology, Evidence-Based Practice and Care Management Across Life Span) to the 2-week of broad-based Clinical Practicum in Advanced Nursing module. The students will be assigned to one of the following clinical settings that is different from their specialty attachment. <ul style="list-style-type: none"> • Acute care • Intermediate and long-term care • Primary care • Geriatric centres • Mental Health Care

POST-DIPLOMA CERTIFICATE IN ADVANCED MEDICAL-SURGICAL NURSING

Modules	Synopsis
Fundamentals in Medical-Surgical Nursing	This module provides core nursing knowledge of the acutely and critically ill adult patients with cardiovascular and respiratory disorders. The student will critically evaluate the complexity of care issues across a range of patient presentations for patients in a medical-surgical setting.
Advanced Medical-Surgical Nursing Science I	This module provides an in-depth understanding of basic nursing sciences from general nursing training. Diseases and altered conditions of gastrointestinal, endocrine and renal are covered in depth with integration of pathophysiology and applied human anatomy. Emphasis will be placed on prioritization of care through collaboration with other members of the healthcare team, patients, and their families.
Advanced Medical-Surgical Nursing Science II	This module provides an in-depth understanding of nursing sciences from altered conditions of the neurological, musculoskeletal disorders and integumentary system, with a focus on the elderly population. Emphasis will be placed on coordination of care through collaboration with other members of the healthcare team, patients, and their families.
Advanced Medical-Surgical Nursing Practice	This module involves learning of advanced medical-surgical nursing skills for patients in the high dependency (HD) areas and medical-surgical wards. The skills will be covered in depth using the assessment, planning, intervention and evaluation (APIE) format. The safety aspects, potential adverse outcomes and precautions associated with the skills performed will be emphasized.

POST-DIPLOMA CERTIFICATE IN ADVANCED MEDICAL-SURGICAL NURSING

Modules	Synopsis
Advanced Clinical Practicum in Medical-Surgical Nursing	This module enables the learners to apply the theoretical concepts to clinical practice in a variety of medical-surgical settings. The students will utilize the nursing process framework in the assessment, planning, and delivery of nursing care to the patients. Students will be able to utilise advanced care technology used to provide efficient, reliable, safe and quality care to patients experiencing life-threatening illness, injury or surgery and exhibit proficiency in advanced nursing skills.

SPECIALIST DIPLOMA IN CLINICAL EDUCATION

BASIC CLINICAL INSTRUCTOR COURSE

Modules	Synopsis
Principles of Clinical Education	This module is developed to provide learners with fundamental knowledge and skills required for the roles and functions of Clinical Instructors in clinical nursing education. The learners will be equipped with relevant learning theories, effective clinical supervision models, clinical education strategies, and student assessment and evaluation.
Clinical Practicum in Clinical Education 1	This module is designed to provide learners with opportunity to apply clinical teaching knowledge and skills learned from Principles of Clinical Education module. Learners will provide supervision or support to the pre-registration nursing students during clinical practice at workplace, provide feedback and perform assessment and evaluation.

ADVANCED CLINICAL INSTRUCTOR COURSE

Modules	Synopsis
Facilitating Advanced Clinical Skills	This module aims to equip the learners with knowledge and skills in facilitating the advanced clinical skills at the post-registration nursing level, or for the continuing education and training (CET) nursing students. The learners will apply what they have learned during the next clinical practicum module – ‘Clinical Practicum in Clinical Education 2’.

SPECIALIST DIPLOMA IN COMMUNITY OPTOMETRY

POST DIPLOMA CERT IN OCULAR HEALTH

Modules	Synopsis
Geriatric and Low Vision	This module examines the vision care for an aging population. Students will study the prevalence of age-related eye diseases in Singapore and other countries, and how they affect the function and quality of life of the elderly. Students will also gain skills in assessment of visual impairment and the prescription of low vision aids.
Ocular and Systemic Diseases	This module builds upon students’ prior knowledge of ocular and systemic diseases. They will learn to effectively assess, detect, and manage ocular disorders in a community setting. Students will also learn and understand the relationship between common systemic diseases and patients’ overall well-being and ocular health.
Community Optometric Practice (ELP only)	This module allows students to integrate skills and knowledge acquired from the course according to the OJT blueprint checklist designed by the workplace in accordance to the SkillsFuture Earn and Learn framework. A workplace mentor will be assigned to facilitate the learning. A pass/fail grade will be accorded for its assessment conducted by the workplace mentors in consultation with School of Health Sciences, NP.

POST DIPLOMA CERT IN COMMUNITY OPTOMETRIC PRACTICE

Modules	Synopsis
Refractive Correction Strategies	This module covers the indications, assessments methods, and management strategies of different refractive correction options (such as specialised contact lenses and ophthalmic lenses, and refractive surgeries). Students will learn the advancements in materials and technology relating to the refractive correction options and their implementation.
Myopia and its Complications	This module examines the epidemiology, physiology, risk factors, measurements, corrections and clinical management of myopia. Students will learn strategies to control myopia and myopia-related ocular complications.
Clinical Practicum in Community Optometry	This module allows students to put their clinical skills into practice in a real-world setting and conduct eye examination on patients from different age groups in the community. The students will gain first-hand experience in prescribing optical corrections and managing ocular disorders.

DIPLOMA (CONVERSION) IN VETERINARY CLINICAL SCIENCE

POST DIPLOMA CERTIFICATE IN VETERINARY CLINICAL SCIENCE 1

Modules	Synopsis
Veterinary Professional Essentials	In this module, students will learn about the proper handling and restraint and fundamental principles underlying behavior of small animals commonly seen in general practice. Students will learn the knowledge and skills to identify aggression, fear, and distress in animals, and perform proper husbandry of small animals. Students will learn about occupational health and safety hazards associated with veterinary clinics. They develop and implement measures for a comprehensive health and safety program through proper risk assessment and standard operating procedures. Students will learn the basics of effective communication, service orientation, and client relationship skills. The module will also provide students with an understanding of the employment landscape within the

Veterinary Diseases & Pathology	<p>veterinary industry with regards to working hours, career progression, job satisfaction, and work sustainability.</p> <p>This module will cover the pathogenic mechanisms and morphological aspects of common veterinary bacterial, fungal, viral, parasitic and metabolic diseases. Emphasis will be on common diseases affecting small animals in general practice. This module will also train students in the skills necessary for the investigation and diagnosis of animal diseases, necropsies, and basic histopathology.</p>
Veterinary Anatomy & Physiology	<p>This module introduces the anatomy and functions of the animal body. It equips students with an understanding of the anatomy and physiology of the cardiovascular, respiratory, urinary, gastrointestinal, integumentary, musculoskeletal, nervous, endocrine, and reproductive systems.</p>

POST DIPLOMA CERTIFICATE IN VETERINARY CLINICAL SCIENCE 2

Modules	Synopsis
Veterinary Clinical Pathology & Immunology	<p>The clinical pathology component will cover aspects of blood analysis and will provide practical training in performing blood smears and carrying out blood biochemistry and complete blood count profiles. Microbiology provides students with an understanding of microorganisms of veterinary importance which cause disease in small animals seen in general practice. Standard microbial laboratory techniques involving the isolation, culture and identification bacteria (based on microbial metabolic characterization and microscopy examination) will also be covered. Immunology provides an understanding of how the immune system functions as an integrated defense system against disease. Topics include an overview of the immune system of vertebrates, innate and adaptive immunity, humoral and cell-mediated immunity, vaccination, diseases of the immune system and antibody-based therapies.</p>
Veterinary Pharmacology & Toxicology	<p>This module covers the basic principles of veterinary pharmacology, pharmacodynamics, pharmacokinetics (absorption, distribution, metabolism, and elimination), the major drug classes and associated mechanism of action, side effects, indications and contraindications, basic anaesthesiology, and an introduction to toxicology. Students will have the opportunity to practice techniques for administration of medication, as well as perform drug calculations.</p>
Veterinary Diagnostics, Surgical & Treatment Procedures	<p>This module covers introductory clinical diagnostics, and students will be taught how to handle common clinical cytology work, as well as learning about diagnostic imaging and diagnostic cardiology. Students will also be introduced to basic surgical and treatment principles which would include pre- and peri-operative preparations for surgery, and intra- and post-operative procedures. Management of emergencies and critical care in veterinary practice will also be briefly covered.</p>