Financial Informatics (N81)
Information Technology (N54)
Multimedia & Animation (N55)
Real-world learning experience at technology hubs – eGarage® and The Dot™

Training and mentorship programmes with industry partners like Microsoft and Sun Microsystems as well as end-user organisations such as KPMG and Millennium & Copthorne International

Internationally recognised qualifications with wide range of specialisation options and electives

Unique RealizeIT® programme where students contribute to local and overseas communities with their IT skills and knowledge

Award-winning student champions in the IT Youth Award, Microsoft Challenge, Worldskills Challenge and National Infocomm Competitions, to name a few
Taking IT Higher

Infocomm technology has pervaded all aspects of our lives and transformed businesses, giving rise to the birth of Microsoft, eBay, Google, YouTube and many others.

If you’re ready to shape the way we learn, think, work, play and transform businesses, then the School of InfoComm Technology (ICT) is the place for you!

At ICT, we will help you become a well-rounded infocomm or digital media professional. We will provide you with strong IT fundamentals and real-world exposure.

Through mentorship programmes at our technology hubs, you will have the opportunity to work on collaborative projects with industry partners and be exposed to emerging technologies, allowing you to gain invaluable experience. Or you could go for a local or overseas internship with leading industry players such as Microsoft, Cisco Systems, Motorola, Sun Microsystems, National Computer Systems, KPMG, Millennium & Copthorne International and National University Hospital.

You will also have the opportunity to give back to the community through our RealizeIT™ initiative.

Many of our students and alumni have won awards in prestigious local and international competitions and challenges such as the IT Youth Award, Microsoft Challenge, National InfoComm Competition and the Samsung DigitALL Hope Award. Graduates have also successfully enrolled in reputable universities with direct admission to second or final year of degree programmes and established themselves in good careers across various industries such as finance, retail, health and manufacturing.

State-of-the-Art Facilities

Facilities such as The Dot®, eGarage® and RHyMeS Centre are where you will breathe life into your projects and watch as they take off!

The Dot®

The Dot® was developed to support the project-based and learning-by-doing approach of the Diploma in Multimedia & Animation.

eGarage® – A Garage that Makes a Difference

You can have something in common with Bill Gates and Steve Jobs by launching your career in a garage! In our eGarage®, you will get to develop and commercialise innovative ideas.

RHyMeS Centre

The RHyMeS Centre is Asia Pacific’s first RFID research and development centre for tourism and hospitality management industry. It is a collaboration with Motorola Electronics, Sun Microsystems, and Millennium & Copthorne International. You will work on projects that have the potential to revolutionise hotel and convention centre management through emerging technologies such as RFID, Biometrics and IP Telephony.

For more information about the School, log on to www.np.edu.sg/ict
Hybrid course that gives students a strong IT foundation with business knowledge in the banking & finance industry

Exciting curriculum that focuses on business processes and problem-solving through the innovative use of infocomm and enterprise resource planning (ERP) systems

Exposure and practice-oriented experience with world’s market leader in ERP system – SAP

A unique curriculum that leverages on the expertise of the School of InfoComm Technology, the School of Business & Accountancy and industry practitioners
ABOUT THE DIPLOMA

Want to help banks and financial institutions improve decision-making with the innovative use of IT? The Diploma in Financial Informatics (FI), a hybrid course that gives a strong IT foundation with business knowledge, will help you do just that!

Singapore is a leading financial centre, home to more than 600 multinational financial institutions. IT professionals must be well-versed with the banking industry to help banks run smoothly. FI not only equips you with knowledge and skills in IT, information systems development and business process management, but also gives you domain knowledge in the banking and finance industry.

You will develop the expertise to analyse financial data and manage business processes of enterprise systems to improve business competitiveness. You will also be exposed to SAP, the world’s market leader in enterprise resource planning software, to learn how processes are integrated in a real-world business setting.

In your final year, you will have the opportunity to hone your skills and knowledge in real-life situations during an internship. FI also gives you a head-start in obtaining prestigious industry certifications in areas such as Enterprise Resource Planning or Business Analytics.
WHAT YOU WILL LEARN

**Year 1**
- Accounting
- Business Statistics
- Digital Devices & Networking Technology
- Enterprise Information Systems
- Enterprise Systems Analysis & Design
- Fundamentals for IT Professionals
- Fundamentals of Programming
- Object-Oriented Programming
- 1 Prescribed / Elective Module#
- Sports & Wellness^
- Creativity & Applied Thinking Skills^
- Communication Toolkit^

**Year 2**
- Databases
- Developing Web Applications
- Enterprise Business Processes
- Enterprise Project Management
- Enterprise Resource Planning
- 3 Prescribed / Elective Modules#
- Innovation & Enterprise in Action^
- Any 2 IS modules^

**Year 3**
- 4 Prescribed / Elective modules#
- Internship
- World Issues: A Singapore Perspective^
- Any 1 IS module^

#The Prescribed / Elective modules and the options offered are reviewed regularly and subject to updates to ensure relevance to industry needs.

You will be automatically enrolled in prescribed modules in the area of banking & finance. You can also choose to take elective modules from other diplomas offered by ICT. You will also take IS modules, and undergo an internship in your final year.

From the second semester, you will start to take these Prescribed / Elective modules:

**Prescribed / Elective Modules (Business and Finance)**
- Financial Markets & Services
- Financial Management
- Financial Planning
- Investments
- Economics
- Principles of Marketing
- Banking & Financial Applications
- Customer Relationship Management
- IT Outsourcing

^Interdisciplinary Studies (IS) modules
WHAT YOU CAN BECOME
Employers value IT graduates who have business knowledge and training in business process methodology, infocomm products and industry applications such as ERP (a financial management software). As an FI graduate, you can harness infocomm for product, service and process innovation in the finance sector.

Your training for the role of a business analyst gives you a head-start in the banking & finance industry. You will be able to meet the increasing demand for a new breed of business analysts in the banking and financial institutions, small and medium enterprises, multinational corporations and the public sector.

After gaining project implementation experience and relevant industry certification, you can advance your career to become members of Business Process project teams, application consultants, solution architects, pre-sales or channel managers.

FURTHER STUDIES
With your FI diploma, you can enjoy advanced standing at local and overseas universities in either an IT or a business-related degree programme. These universities include National University of Singapore, Nanyang Technological University, Singapore Management University, University of New South Wales, University of Melbourne, Monash University and most United Kingdom and United States universities.

ENTRY REQUIREMENTS
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results and fulfil the aggregate computation requirements.

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* Candidates must attain the required grade for English as a first language.

Candidates with severe vision deficiency should not apply for the course.
Diploma in Information Technology (N54)

Strong IT foundation with technology or business specialisation options – caters to diverse interests, a variety of career options and university progression

Technology Options focus on analytical, design and development skills that leverage on emerging technologies to solve problems

Business Options focus on business concepts and processes, and the use of IT to empower businesses

Internships with local or overseas industry partners (KPMG, Sun Microsystems, NCS, IBM, Singtel, MIT)

Incubation of IT business ideas and technology application development in our technology hubs
ABOUT THE DIPLOMA

Facebook, Twitter, MSN and Google are just some of the IT applications you use everyday. Do you dream of developing the next application that connects people across the globe? Or do you dream of becoming a billionaire like the founders of Microsoft, Google and eBay?

If you are excited by innovative technologies and applications that value-add to business competitiveness, sign up for the Diploma in Information Technology (IT)!

The course is well-recognised by the industry and universities for the rigour of its curriculum. It provides you with a strong IT foundation and soft skills essential for the business world. Our students who have won national and world championships in prestigious IT competitions are testament to the rigour of the course.

To cater to diverse interests and career aspirations, the course offers four specialisation options – Infocomm Sales & Marketing [NEW], Business Management, Mobile Business Application [NEW], and Solutions Architect. These options can be broadly classified as technology and business options. The technology options cultivate your analytical, design and development skills through exposure to emerging technologies. The business options offer insights into business concepts and processes and trains you to use IT to improve business competitiveness.

In your final year, you could choose to undertake a local or overseas internship to strengthen your IT, business, project management and technopreneurship skills. You could also choose to pursue technology development in our technology hubs jointly spearheaded with industry partners such as KPMG, Sun Microsystems, NCS, IBM, Singtel and MIT.
WHAT YOU WILL LEARN

Year 1
• Fundamentals for IT Professionals
• Computers & Operating Systems
• Fundamentals of Programming
• Computing Mathematics
• Computing in Society
• Object-Oriented Programming
• User Interface Design
• Networking Fundamentals
• Enterprise Information Systems
• Sports & Wellness
• Creativity & Applied Thinking Skills
• Communication Toolkit

Year 2
• Databases
• Object-Oriented Analysis & Design
• Developing Web Applications
• Project Management
• 4 Prescribed / Elective Modules
• Innovation & Enterprise in Action
• Any 2 IS modules

Year 3
• 4 Prescribed / Elective modules
• Internship
• World Issues: A Singapore Perspective
• Any 1 IS module

You can choose to major in an option. Each option requires the completion of five prescribed modules. You will also take three elective modules and undergo an internship project in your final year.

InfoComm Sales & Marketing Option**
- Principles of Marketing
- Enterprise Business Processes
- InfoComm Sales & Marketing Strategies
- InfoComm Sales Life Cycle Management
- Customer Decision Making & Negotiation Skills
- InfoComm Business Case Challenge
- Economics
- Organisational Behaviour

Business Management Option
- Principles of Marketing
- eBusiness Foundations
- Accounting
- Supply Chain Management
- Web Database Development
- E-Commerce Applications Development
- Economics
- Organisational Behaviour

Mobile Business Application Option* NEW!
- Mobile Business Application
- eBusiness Foundations
- Principles of Marketing
- Mobile Applications Development
- Advanced Mobile Applications Development
- Wireless Technology
- Mobile & Wireless Security
- Advanced Object-oriented Analysis & Design

Solutions Architect Option
- Data Structures and Algorithms
- Advanced Object-Oriented Analysis & Design
- Enterprise Applications Development
- Windows Applications Development
- Local Area Networks
- Wireless Technology
- Systems Security
- C++ Programming

You can also complete your elective modules with a focus in:

Game Design & Development NEW!
- Game Design
- Games Programming
- C++ Programming

Information Security & Forensics NEW!
- Information Security
- Malware Analysis & Antivirus Technologies
- Hacking & Digital Forensics

^Interdisciplinary Studies (IS) modules

*ICT is member of the iPhone Developer University Program. Under this program, the School has incorporated iPhone apps development into its curriculum.

**The InfoComm Sales & Marketing option is brought to you with the invaluable contribution of Microsoft Singapore to the design, development and delivery of curriculum pertaining to the sale and marketing of high-value infocomm products, services and solutions.

Microsoft Singapore proudly supports the School’s commitment to jump-start the process of creating a pool of highly skilled and sought-after professionals in infocomm sales and marketing.

Microsoft is a trademark of the Microsoft group of companies.
WHAT YOU CAN BECOME
With a strong IT foundation and good problem-solving skills, you can pursue a wide range of jobs in diverse industries. For example, you could serve as a Business Analyst in a bank, bridging the IT division and the business units within the bank. You can also become an application developer, a network administration specialist in networking and security, a software development specialist in software engineering or marketing or sales professionals. You can even start your own IT-related business venture!

FURTHER STUDIES
You can enjoy advanced standing at local and overseas universities that have accredited the diploma, including National University of Singapore, Nanyang Technological University, Singapore Management University, University of New South Wales, University of Melbourne, Monash University and most United Kingdom and United States universities.

You can also gain module exemptions for the following degree programmes at local universities:

Nanyang Technological University
• Bachelor of Engineering (Computer Engineering)
• Bachelor of Engineering (Computer Science)

National University of Singapore
• Bachelor of Computing (Honours) in Computer Engineering
• Bachelor of Computing (Honours) in Information Systems
• Bachelor of Computing (Honours) in Computer Science
• Bachelor of Computing (Honours) in Electronic Commerce

Singapore Management University
• Bachelor of Science in Information Systems Management

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* Candidates must attain the required grade for English as a first language.

Candidates with severe vision deficiency should not apply for the course.
Practice-oriented learning with an emphasis on thinking and conceptualisation skills as well as the compilation of a professional portfolio.

Specialisation in either Digital Animation or Interactive Media with production and project management skills.

Strong support and design input from industry partners like the Singapore Animators Connection and Media Development Authority of Singapore.
ABOUT THE DIPLOMA

*Ice Age 3* and *Bolt* are some examples of recent 3D animated movies that have become larger than life on the silver screen. 3D animation brings fantasy to life, in ways that we may never have imagined before. It is revolutionising our cinematic experience.

If you have a story to tell and want to ‘wow’ millions of people with your creativity, then the Diploma in Multimedia & Animation (MMA) is the course for you.

MMA prepares you for the world of 3D and interactive animation by helping you to communicate your ideas to the world through well-conceptualised, well-designed and entertaining content, services and applications. What’s more, the emphasis on compiling a professional portfolio helps ensure that you will be well-prepared for an exciting career in the creative industry.

Gain a strong grounding of the skills interactive digital media professionals need. Unique to the course is a balanced foundation in the arts, design and digital media technologies in the first year. In the second year, you can specialise in either Digital Animation or Interactive Media (entertainment-rich media). In your final year, your expertise will be further developed through production and project management where you will be engaged in all areas from concept to budgeting and implementation - skills that will serve you well when you enter the job market or choose to become an entrepreneur.

You will also benefit from ICT’s close links with industry partners like the Singapore Animators Connection and the Media Development Authority of Singapore – who work alongside the School to design the course and ensure that you will have access to the latest trends and developments in the creative industry.
### WHAT YOU WILL LEARN

#### Year 1
- 2D Design
- 3D Design
- Drawing Fundamentals
- Perspective Drawing
- Animation Principles
- Digital Photography
- Digital Audio & Video
- Fundamentals for Creative Professionals
- Principles of Programming
- Sports & Wellness
- Creativity & Applied Thinking Skills
- Communication Toolkit

#### Year 2
- 8 Prescribed / Elective Modules
- Innovation & Enterprise in Action
- Any 2 IS modules

In the second year, you can opt to specialise in 3D Animation or Interactive Media. You will undergo an internship project in your final year.

**Digital Animation**
- Figure Drawing
- Drawing for Animation
- Principles of Body Mechanics
- Acting for Animation
- 3D Modelling & Animation
- Advanced Modelling & Rigging
- Digital Cinematography
- Scriptwriting, Storyboarding & Storytelling
- Digital Audio Design

**Interactive Media**
- Visual Interface Design
- Digital Design for Interactivity
- Digital Effects
- Interactive Narrative
- Authoring Interactive Experience I
- Authoring Interactive Experience II
- Developing Rich Media Applications
- 3D Modelling & Animation
- Sound Design for Interactive Media

#### Year 3
- Global Production & Project Management
- Concept Development
- Portfolio Development
- Internship
- 1 Elective Module
- World Issues: A Singapore Perspective
- Any 1 IS module

^Interdisciplinary Studies (IS) modules

*You can choose from a wide range of electives in info-comm technology and interactive & digital media. The curriculum is regularly reviewed and updated to ensure relevance to industry needs.*
WHAT YOU CAN BECOME
By nurturing your talent in conceptualising and development skills, MMA prepares you for jobs as an entertainment-rich interactive media designer or developer, visual interface designer, 2D and 3D animator, 3D modeller and rigger, to name a few. You will also be well-equipped to apply your skills to the world of 2D or 3D animation in television or movies, video, e-learning, PC online as well as interactive arts and edutainment.

You might just find yourself working with international corporations like Pixar, Lucasfilm or DreamWorks in the future! Or you might find yourself starting up a high-potential creative business, developing your own interactive media titles.

FURTHER STUDIES
You can pursue further studies in the creative field with universities such as National University of Singapore (Communications & New Media), Nanyang Technological University (Art, Design and Media), James Cook University, Australia (New Media Arts), RMIT, Digipen Institute of Technology (Production Animation) and Sheridan College (Animation).

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* Candidates must attain the required grade for English as a first language.

Candidates with severe hearing deficiency or severe vision deficiency should not apply for the course.

Those with colour appreciation deficiency may be considered, subject to passing an in-house test.
CONTACT US
535 Clementi Road Singapore 599489
Email: JoinNP@np.edu.sg
Toll Free: 1800 460 7333 (admissions)
General Enquiries: 6466 6555
Website: www.np.edu.sg

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Tel: 6469 0490
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Diploma in Information Technology
Mr Lye Tuck Weng
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Tel: 6469 0490
Email: ltw@np.edu.sg

Diploma in Multimedia & Animation
Mr Rahardja Agus
Tel: 6460 8207
Tel: 6469 0490
Email: rahar@np.edu.sg

Join Us
If you took the 2009 GCE ‘O’ Level examinations as a school candidate, you may apply on-line through the Joint Admissions Exercise (JAE). Details will be available in the JAE information booklet that will be distributed by your secondary school.

Applicants who are not eligible to apply under the JAE and holders of other qualifications may refer to our website at www.np.edu.sg/admissions/apply for application details.

Tuition Fees
S$2,100 per academic year (For Local Subsidised Students)

All information correct at time of printing (Nov 2009)