NEW!
- Enterprise IT Systems (N81)
- Information Technology (N54)
- Mobile Business Solutions (N63)
- Multimedia & Animation (N55)
Real-world learning experience at the School’s technology hubs – eGarage®, RHyMes Centre and the Multimedia & Animation Centre

Training and mentorship programmes with strong industry partners like Microsoft, Motorola, Sun Microsystems and NCS as well as end-user organisations like KPMG, Millennium & Copthorne International and National University Hospital

Internationally recognised qualifications with wide range of specialisation options and electives; catering to diverse interests, a variety of career options in the infocomm and digital media industries and advanced standing at universities

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

World and national award-winning student champions in the Microsoft Challenge, Worldskills Challenge, Samsung DigitALL Hope, Tan Kah Kee Young Inventors’ Award and National IT Youth Award
Today, infocomm technology has pervaded all aspects of our lives and has transformed the world of business, giving opportunities to the birth and rise of Microsoft, Yahoo!, eBay, Google, YouTube, Wikipedia, Second Life, MySpace, MMOG Games and many others.

Are you ready to be part of this exciting future – to further shape the way we learn, think, create, work and play? If you are, the School of InfoComm Technology (ICT) is just the place for you!

In ICT, we focus on your holistic development in your journey to become an infocomm or digital media professional. Through this journey, we equip you with a strong fundamental IT knowledge, professionalism and exposure to the IT real world.

Ever dreamt of working with established companies such as Microsoft, Cisco Systems, Motorola, Sun Microsystems, National Computer Systems (NCS), Millennium & Copthorne International and the National University Hospital? Well, here is your chance! Under mentorship schemes in our technology hubs, you get to work on industry-driven projects, be exposed to new emerging technologies and gain valuable practical experience. Alternatively, you can go for an industry attachment with our reputable industry partners, locally or overseas.

We nurture your potential, leadership and soft skills through a range of student talent development programmes. We also give you the opportunity to give back to the community - through our RealizeIT® initiative. Use your acquired skills and knowledge and apply them in real world situations to help the less fortunate. Travel overseas and introduce IT to the less privileged. Or make the world a safer place for children through workshops on cyber safety.

Our graduates are testament of our holistic development approach. Their achievements and community spirit have been recognised in various competitions such as the prestigious National IT Youth Award, Outstanding Award for All-Rounders, Microsoft Challenge and the Samsung DigitALL Hope Award. Many have progressed into reputable universities with direct admission to the second or final year of their degree programmes and established themselves in good careers.

State-of-The-Art Facilities

ICT’s facilities, the eGarage®, RHyMeS Centre and Multimedia & Animation Centre, are where you will breathe life into your projects and watch as they take off!

A Garage that Makes a Difference

You can have something in common with Bill Gates and Steve Jobs – start a career in a garage to become an IT millionaire! You provide the willpower, we provide the guidance and facilities in our eGarage®.

Work alongside experienced lecturers to nurture, develop, test and commercialise your innovative ideas. You have the opportunity to work with the latest emerging technologies under the mentorship of staff and industry.

The RHyMeS Centre

The RHyMeS Centre is Asia Pacific’s first Radio Frequency Identification (RFID) research and development centre for tourism and hospitality management industry. It is a collaboration with Motorola Electronics, Sun Microsystems, and Singapore’s largest hotel group, Millennium & Copthorne International, and supported by STB, SHA, IDA and A*STAR.

You will work on exciting projects that have the potential to revolutionise the hotel and convention centre management through emerging technologies such as RFID, GPRS, Biometrics and IP Telephony.

For more information, visit us at www.np.edu.sg/ict
Diploma in Enterprise IT Systems

- A hybrid course that gives students a strong IT foundation with business knowledge in the fast growing industries of Banking & Finance, as well as Healthcare

- Provides a head start as a techno-strategist who understands how to leverage on enterprise technology, business process representation and integration to improve business competitiveness

- Provides opportunities for students to opt for industry recognised certification (e.g. SAP BPERP - Best Practices in Enterprise Resource Planning)
About the Diploma

I love to study both business and IT but do not know which to go for. I want to be able to apply IT to empower businesses in the financial or healthcare sector. Is there a course that can give me a head start? Pursue our Diploma in Enterprise IT Systems (EIT) - a hybrid course that gives you a strong IT foundation and a good knowledge of enterprise technology, business processes and business domain expertise in either the banking & finance or healthcare sector.

As projected in Singapore's Intelligent Nation 2015 (iN2015) master plan, there is increasing demand for infocomm manpower with good domain expertise and industry product knowledge especially in the finance and healthcare sectors.

The EIT diploma is designed to equip students with knowledge in information technology and information systems. It also equips them with skills in identifying business process design, managing and integration of enterprise technology to enhance business competitiveness in various industries. In future, arising from the industry needs, new business sectors will be added to the course.

Through the Banking & Finance specialisation option, you can harness infocomm for product, service and process innovation in the finance sector to anticipate and meet customer's increasing demand. In particular, infocomm can infuse banking legacy operating models with industry best practices.

Through the Healthcare specialisation option, you can integrate healthcare services by creating a seamless and secured information exchange in the healthcare value chain. Infocomm can e-enable business processes and linkages in the healthcare value chain.

Your EIT diploma prepares you to enter the workforce by exposing you to SAP, the world market leader in Enterprise Resource Planning (ERP) software, to demonstrate how basic business processes are represented and integrated in a real world business setting. In this role-playing environment, you can see and learn how the business processes are integrated across the various business functions - human resource, finance, sales, inventory to delivery, for competitiveness.

The EIT diploma is endorsed by the Infocomm Development Authority of Singapore. It also prepares you for prestigious industry certification, e.g. SAP’s BPERP in Best Practices Enterprise Resource Planning.

For more information, log on to www.np.edu.sg/ict
**What will you learn in the course?**

### Year 1
- Fundamentals for IT Professionals
- Fundamentals of Programming
- Computers & Operating Systems
- Business Statistics
- Enterprise Systems Analysis & Design
- Enterprise Information Systems
- Networking Fundamentals
- Object-Oriented Programming
- Accounting & Financial Management
  - Individual & the Community
  - Sports & Wellness
  - Creativity & Applied Thinking Skills
  - Communication Toolkit

### Year 2
- Developing Web Applications
- Enterprise Project Management
- Enterprise Business Processes
- Databases
- Enterprise Resource Planning
- Customer Relationship Management
- Specialisation in Banking & Finance or Healthcare Industry
  - Innovation & Enterprise in Action
  - Any 2 IS general modules

### Year 3
- Specialisation in Banking & Finance or Healthcare Industry
- Industrial Attachment Programme/Project
  - World Issues: A Singapore Perspective
  - Any 1 IS general module

In addition, you will undergo an industrial attachment programme in your final year.

You can choose to specialise in Banking & Finance or Healthcare as follows:

**Banking & Finance**
- Economics
- Financial Markets and Services
- Financial Planning
- Secured & Smart Banking
- Banking and Financial Applications
- Business Intelligence
- IT Outsourcing
- Principles of Marketing
  - Interdisciplinary Studies (IS) modules

**Healthcare**
- Healthcare Systems
- Electronic Health Records & Standards
- Medical Informatics
- Anatomy & Physiology
- Pathophysiology & Pharmacology
- Ethics in Healthcare
- IT Outsourcing
- Business Intelligence
What can you achieve in your career?

Employers value graduates trained in business process methodology, infocomm products and industry applications such as ERP. You will have a head start as a techno-strategist in the financial or healthcare sector. You can be a Business Analyst, User Support Officer, Business Process Engineer, Business Solutions Support Architect, ERP Software Engineer, IT Support Consultant, among others.

You can further your career after gaining project implementation experience and relevant industry certification to become members of Best Practice project teams, Application Consultants, Solution Architects, Pre-Sales or Channel Managers.

You can even start your own IT venture to help small and medium size enterprises (SME) strategise the implementation of integrated business processes using enterprise technology.

Further Studies

With your EIT diploma, you will enjoy advanced standing at local and overseas universities either in IT-related or business-related degrees. The universities include the National University of Singapore, Nanyang Technological University, Singapore Management University, University of New South Wales, University of Melbourne, Monash University and most UK and US universities.

Entry Requirements

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examinations (or equivalent) results:

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The aggregate computation for selection is based on grades obtained for English, Mathematics, Science (Grade 1-9) or Design & Technology (Grade 1-9) and two other subjects.

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

- Strong IT foundation with technology or business options, catering to diverse interests, enabling a variety of career options and advanced standing at universities

- Harnesses the power of information and Internet technologies in the digital economy with knowledge of e-business processes and IT skills

- Choose to go on local/overseas attachments, develop technologies or incubate your IT business ideas
About the Diploma

You use them everyday – Internet Explorer, MSN, Google, eBay. Have you ever dreamt of becoming a developer or a founder of one of these amazing tools that bring the world together? Have you ever dreamt of becoming a billionaire like the founders of Microsoft, Google and eBay?

If you are excited about being able to create new and innovative applications or value-add to business competitiveness using technology, enrol for the Diploma in Information Technology now!

The course is well-recognised by the industry as well as the universities for its rigour in preparing you well as an IT professional. It equips you with a strong IT foundation with problem-solving skills, and imbues you with the required professionalism and soft skills essential in the business world. Our students who have won national and world championships in prestigious IT competitions are testament to the rigour of the course.

The technology option gives you opportunities to further develop your analysis, design and development skills through exposure to emerging technologies.

The business option avails more business concepts and business processes to further develop your analysis skills, to empower businesses through the use of IT.

To further strengthen your IT, business, project management or techopreneurship skills, you will undertake a four-month internship in your final year. You can choose a local or overseas industrial attachment, technology development in our technology hubs jointly spearheaded by industry partners or incubate your IT business ideas. Industry partners include KPMG, Sun Microsystems, NCS, IBM, Singtel and MIT.
What will you learn in the course?

**Year 1**
- Fundamentals for IT Professionals
- Computers & Operating Systems
- Fundamentals of Programming
- Computing Mathematics
- Web Publishing
- Object-Oriented Programming
- User Interface Design
- Networking Fundamentals
- Business Information Systems
- Individual & the Community
- Sports & Wellness
- Creativity & Applied Thinking Skills
- Communication Toolkit

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

**Year 3**
- 4 Prescribed / Elective modules
- Industrial Attachment Programme
- World Issues: A Singapore Perspective
- Any 1 IS general module

You can choose to major in an option. Each option requires the completion of five prescribed modules. You will also undergo an industrial attachment programme in your final year.

**Business Option**
- Business Management
  - Principles of Accounting
  - Principles of Marketing
  - Economics
  - Business Finance
  - Organisational Behaviour
- eBusiness
  - eBusiness Foundations
  - eCommerce Application Development
  - Supply Chain Management
  - Web Database Development
  - Technopreneurship

**Technology Option**
- Software Engineering
  - C Programming
  - Client-Server Programming
  - Data Structures & Algorithms
  - Enterprise Application Development
  - Windows Application Development
- Networking & Security
  - Network Administration & Management
  - Network Architectures
  - Wireless Technology
  - System Security
  - Web Server Administration & Security
  - Wide Area Networks

You can choose from a wide range of electives - Internet technologies, mathematics, digital media, game programming, multimedia, life sciences, mobile/wireless computing, networking, systems security, eBusiness, technopreneurship, etc. The curriculum is regularly reviewed and updated to ensure relevance to industry needs. The Options and prescribed modules offered are subject to change.

▲ Interdisciplinary Studies (IS) modules
What can you achieve in your career?

With a strong IT foundation and good problem-solving skills, you are well positioned to pursue a wide range of career opportunities in a diverse spectrum of industries as IT has pervaded into all aspects of lives and businesses.

For example, you could serve as a business analyst in a bank, bridging the IT division and the business units within the bank.

You will discover a range of employment opportunities open to you. These include:

- A business support analyst/application developer - help businesses become IT-savvy
- A web application developer in e-business - help companies improve their competitive edge with internet and intranet applications
- A network administration specialist in networking and security - link computers and mobile devices for better and more secure communications
- A software development specialist in software engineering - create robust, effective applications to improve productivity
- A marketing, sales, pre-sales or post-sales support - help companies market or sell their IT-related services, products and applications

You can even start your own IT-related business ventures!

Further Studies

With your Diploma in Information Technology, you will enjoy advanced standing at local and overseas universities which have accredited the diploma. They include the National University of Singapore, Nanyang Technological University, Singapore Management University, University of New South Wales, University of Melbourne, Monash University and most UK and US universities.

Entry Requirements

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examinations (or equivalent) results:

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The aggregate computation for selection is based on grades obtained for English, Mathematics, Science (Grade 1-9) or Design & Technology (Grade 1-9) and two other subjects.

Candidates with severe vision deficiency should not apply for the course.
Diploma in Mobile Business Solutions

- Strong IT foundation with **wireless** technology and **mobile business** focus - catering to a variety of career options and advanced standing at universities

- Provides a head start to help businesses develop mobile strategies and solutions to reach out to a wider customer base, anytime, anywhere through mobile phones, PDAs and other mobile means

- Go on local/overseas attachments, develop technologies or incubate your IT mobile business ideas
About the Diploma

In an increasingly interconnected world, the power of mobile computing empowers a business to expand its presence beyond its physical space. Businesses want to be able to make its presence in cyberspace as well as on the mobile phones and PDAs of all consumers. The consumers on the other hand, want to have information and services at their fingertips, anytime and anywhere.

The future expansion of businesses will depend on their mobile strategies in reaching out to a wider global customer base in the fastest possible time.

If you are excited about being part of the future of mobile business, enrol for the Diploma in Mobile Business Solutions (MBS) now! With your MBS diploma, you will find yourself part of a strategy or development team that introduces effective and efficient mobile solutions for businesses!

A three-in-one course, MBS equips you with a strong IT foundation with problem-solving skills, as well as mobile technology and mobile business knowledge. The course is well-recognised by the industry and the universities for its rigour in preparing you to be an IT professional.

To further strengthen your IT, mobile business, project management or techopreneurship skills, you will undertake a four-month internship in your final year with partners like Singtel, Starhub, KPMG, Sun Microsystems, NCS, IBM and MIT. You can choose a local or overseas industrial attachment, technology development in our technology hubs jointly spearheaded by industry partners or incubate your IT mobile business ideas.

Our students are testament to the rigour of the course with their award-winning innovative mobile applications like the mobile car park system, mobile Scrabble, mobile Wheel-of-Fortune and Glovology - an intelligent mobile data glove communication device for the hearing-impaired.
What will you learn in the course?

**Year 1**
- Fundamentals for IT Professionals
- Computers & Operating Systems
- Business Statistics
- Introduction to Mobile Applications
- Mobile Usability Design
- Networking Fundamentals
- Business Information Systems
  ▲ Individual & the Community
  ▲ Sports & Wellness
  ▲ Creativity & Applied Thinking Skills
  ▲ Communication Toolkit
- Business Information Systems
- Individual & the Community
- Sports & Wellness
- Creativity & Applied Thinking Skills
- Communication Toolkit

**Year 2**
- Databases
- Object-Oriented Analysis & Design
- eBusiness Foundations
- Mobile Application Development
- Project Management
- Wireless Technology
- 1 Elective module
  ▲ Innovation & Enterprise in Action
  ▲ Any 2 IS general modules

**Year 3**
- Professional Issues
- Supply Chain Management
- 2 Elective modules
- Industrial Attachment Programme
  ▲ World Issues: A Singapore Perspective
  ▲ Any 1 IS general module

In addition, you will undergo an industrial attachment programme in your final year.

You can choose from a wide range of electives in business and infocomm technology. The curriculum is regularly reviewed and updated to ensure relevance to industry needs.

▲ Interdisciplinary Studies (IS) modules
What can you achieve in your career?

With a strong IT foundation and good problem-solving skills, you will be well positioned to pursue a wide range of career opportunities in a diverse spectrum of industries and help the business expand through its mobile business strategies.

Become a professional mobile solution strategist, mobile application developer, software engineer or consultant in almost any industries where mobile strategies are critical: information technology, banking and finance, manufacturing, education, edutainment, logistics and transportation.

You can even innovate and develop your own mobile applications and start your own IT-related business ventures!

Further Studies

With your MBS diploma, you will enjoy advanced standing at local and overseas universities, which have accredited the diploma. They include the National University of Singapore, Nanyang Technological University, Singapore Management University, University of New South Wales, University of Melbourne, Monash University and most UK and US universities.

Entry Requirements

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examinations (or equivalent) results:

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The aggregate computation for selection is based on grades obtained for English, Mathematics, Science (Grade 1-9) or Design & Technology (Grade 1-9) and two other subjects.

Candidates with severe vision deficiency should not apply for the course.
Diploma in Multimedia & Animation

- Practice-oriented learning with an emphasis on thinking and conceptualisation skills, and the compilation of a professional portfolio so that you can snag that creative job ahead of others

- Option to specialise in 3D animation or interactive media - with project management skills

- Strong support and design input from high-standing industry partners like the Singapore Animators Connection and Media Development Authority
About the Diploma

A rat that cooks? And... a green ogre? Ratatouille and Shrek are just some of the 3D animated movies that have become larger than life on the silver screen. 3D animation is bringing fantasy to life, in ways that we might never have imagined before. It is revolutionising our cinematic, advertorial and even learning experience.

If you have a story to tell and want to ‘wow’ millions of people with your creativity, then our Diploma in Multimedia & Animation (MMA) should be your choice.

MMA prepares you for the world of 3D and interactive animation, so you can communicate your ideas through well-conceptualised and well-designed edutainment content, services and applications to the world. What’s more, with the emphasis on compiling a professional portfolio, you will be more than ready for an exciting career in the creative industry.

Our practice-oriented MMA diploma provides you with a strong grounding of the skills required by interactive or digital media professionals from the onset. Unique to the course is a balanced foundation in the arts, design, digital media and IT.

In the second year, you may opt to specialise in either 3D animation or interactive media (rich Internet applications, edutainment game authoring).

In your final year, your expertise will be further developed through project development 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 benefit from the School’s connection and collaboration with industry partners like the Singapore Animators Connection and the Media Development Authority - who work alongside the School to design the course and ensure that you will have access to the latest on trends and developments in the creative industry.
What will you learn in the course?

**Year 1**
- Digital Photomedia
- Drawing Fundamentals
- Fundamentals for Creative Professionals
- Graphic Design Fundamentals
- Program Design & Authoring
- Portfolio Project 1 & 2
- Animation Principles & Techniques
- Game Design
- Scriptwriting, Storyboarding & Storytelling
- Problem Solving & Programming
- Visual Interface & Information Design
- Individual & the Community
- Sports & Wellness
- Creativity & Applied Thinking Skills
- Communication Toolkit

**Year 2**
- Interactive Storytelling
- User Experience Design
- Portfolio Project 3 & 4
- Digital Audio Design
- 7 Prescribed / Elective Modules
- Innovation & Enterprise in Action
- Any 2 IS general modules

**Year 3**
- Multimedia Project Management
- Concept Development Project
- Industrial Attachment Programme
- World Issues: A Singapore Perspective
- Any 1 IS general module

In the second year, students may opt to specialise in 3D animation or interactive media. You will undergo an industrial attachment programme in your final year.

**3D Animation**
- Basic Animation
- Cinematography
- 3D Modelling
- 3D Character Animation
- Advanced 3D Modelling
- Advanced 3D Character Animation
- Audio & Video Fundamentals & Editing

**Interactive Media**
- Multimedia Database Design
- Developing Rich Internet Application
- Systems Analysis & Design
- Game Authoring
- 3D Game Authoring
- Developing Educational Games & Simulation
- Audio & Video Fundamentals & Editing

The curriculum is regularly reviewed and updated to ensure relevance to industry needs.

▲ Interdisciplinary Studies (IS) modules
What can you achieve in your career?

Our MMA diploma helps develop your talents holistically; from thinking, conceptualising to development skills. You can work as an interactive media designer/developer, interface designer, 3D modeller animator, rigger or game author, just to name a few. You will be well-equipped to carve - or flash - a name for yourself by applying your newly-acquired skills to the world of 2D or 3D animation in television or movies, video, advertising, 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 set-up, developing your own interactive media titles.

Further Studies

With your MMA diploma, you will be able to further pursue your studies in the creative field in both local and overseas universities such as the National University of Singapore, Nanyang Technological University, RMIT University, Digital Institute of Technology, Sheridan College and many other universities globally that are starting up degree programs in the digital media field.

Entry Requirements

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examinations (or equivalent) results:

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The aggregate computation for selection is based on grades obtained for English, Mathematics, Science (Grade 1-9) or Design & Technology (Grade 1-9) and two other subjects.

Candidates with hearing deficiency or severe vision deficiency including colour appreciation deficiency should not apply for the course.
Join Us
If you took the 2007 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 which you will receive when collecting your results.

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

Fees
S$2,100 per academic year (for local students)

All information correct at time of printing (Oct 2007)