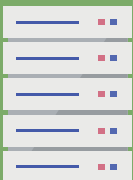


ELECTRONICS AND INFO-COMM TECHNOLOGY



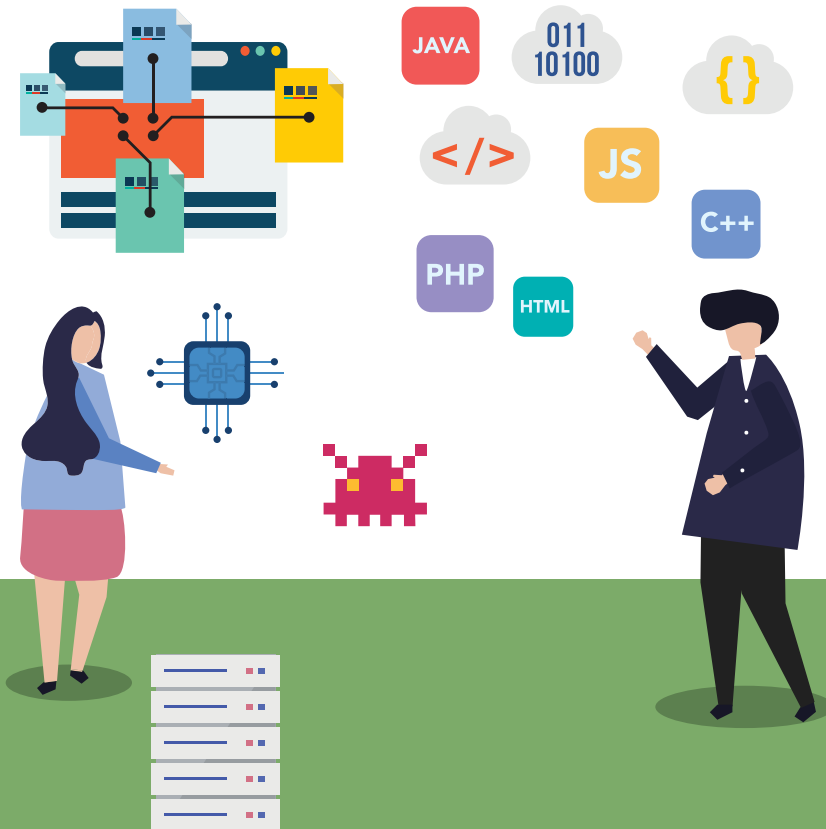
RIGHT CHOICE. RIGHT HERE.

ITE College Central
A College of Creativity & Innovation

Are you someone who enjoys fun and experimental way of learning? Or are you into honing your skills and knowledge in electronics systems and tools, and the workings of new technologies? Join the **School of Electronics and Info-Comm Technology** to find real world solutions through gamification, experimentation and exploration.

The School produces industry-adaptive graduates with globally competitive skills through the adoption of the Play.Learn.Build teaching and learning model. It provides opportunities for you to be a part of the dynamic Electronics and ICT communities, and nurtures you into sought-after graduates.

Are you game enough for **School of Electronics and Info-Comm Technology**?



Nitec in ELECTRONICS, COMPUTER NETWORKING & COMMUNICATIONS

Gain strong foundation and essential skills in electronics, computer networking and communication system to have a good head start in your career in numerous sectors.

Join *Nitec* in Electronics, Computer Networking & Communications to learn how to install, test, maintain and service computer networking and communication system. As a skilled specialist, you will support a broad range of applications in intelligent automation as well as remote control and monitoring of system. You will be equipped with a sound electronics skill set which will prepare you for emerging industries in areas such as medical technology, avionics and green energy applications.

You Will Learn

Career Prospects

- Electrical Principles and Measurements
- Digital Electronics
- Analogue Electronics
- Computer Networking Principles
- Electronic Control System
- Electronic Communications System
- Applied Electronics
- C Programming
- Web Development

- Computer Systems Technician
- Electronics Technician
- Electronics Production Technician
- Communication Equipment Technician
- Test and Measurement Technician
- Engineering Assistant
- Electronics Specialist



Nitec in INFOCOMM TECHNOLOGY

Do you want to harness the power of information and communication technologies, and be a specialist in a skill that is sought after in almost any industry in today's world?

Apply for *Nitec* in Infocomm Technology now and learn to set up, maintain and troubleshoot computer network, servers, IT peripherals, tablets and deploy application software. You will also learn about virtualisation infrastructure, application maintenance and deployment.

You Will Learn

Career Prospects

- IT Essentials and PC Support
- Networking Essentials
- Internetworking Technology
- Server Essentials
- Internet Applications
- Virtualization Technology
- Software Applications
- Fundamentals of HTML5

- Info-Comm Technician
- Technical Support Associate
- Associate Systems Administrator
- Computer Technician



Nitec in MICROELECTRONICS

Singapore has one of the most diverse microelectronics and semiconductor industries in the Asia Pacific. It enables Singapore to capture growth opportunities in the emerging areas of Internet of Things (IoT), mobility solutions and cloud computing.

In *Nitec in Microelectronics*, you will learn electronics fundamentals and manufacturing processes of electronic components, which are commonly known as microchips. These microchips are found in electronic devices for Artificial Intelligence (AI), wireless communications, tablet computers as well as clean technology applications.

You Will Learn

- Electrical Principles and Measurement
- Digital Electronics
- Analogue Electronics
- Computer Networking Principles
- Semiconductor Fundamentals
- Wafer Fabrication Processes
- Applied Microelectronics

Career Prospects

- Process Technician
- Manufacturing Technician
- Semiconductor Technician



Nitec in WEB APPLICATIONS

Be the next generation web developer in the Digital Media industry!

Developing web applications is fun and exciting. It opens up the mind to think out of the box and unleashes your creativity. In *Nitec in Web Applications*, you will learn to develop interactive web content, integration of interactive media, create professional websites using content management system and digital assets manipulation.

You Will Learn

- IT Essentials and UI/UX
- Web Development Fundamentals
- Content Management System
- Programming Essentials
- Rich Interactive Applications
- Website Development
- Mobile Web Development
- Social Media for Marketing
- Digital Publishing

Career Prospects

- Web Developer
- Web Programmer
- Interactive Programmer
- Rash/Flex Developer



Higher Nitec in

BROADCAST & MEDIA TECHNOLOGY

Join digital media broadcasting and have the world as your audience.

There is never a dull moment in the Broadcast & Media industry. Our graduates experience the excitement in real-time live broadcast of events, precise schedule planning for non-live broadcast and stringent quality check on broadcast media content everyday in their work.

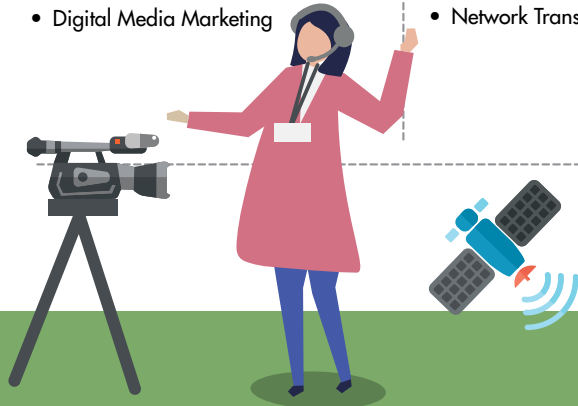
In *Higher Nitec* in Broadcast & Media Technology, you will be trained in an authentic media broadcast lab, use industry level equipment to handle incoming broadcast media materials, manage master control room functions and play-out system, operate a media assets library, support broadcasting technical infrastructure and perform editing on broadcast-quality media.

You Will Learn

- Broadcast Media Ingestion
- Media Assets Management
- Media Processing and Application
- Broadcast Distribution Services
- Digital Media Technology
- Broadcast Systems Technology
- Apple OS Administration
- Apple Hardware Repair
- Digital Media Marketing

Career Prospects

- Opportunities to be employed by major broadcasting organisations, content aggregators and post-production companies
- Broadcast and Media Technical Specialist
 - Broadcast Operation Executive / Specialist
 - Media Ingestion / Contents Operators
 - Master Control Operators
 - Network Transmission Assistant



Higher Nitec in

ELECTRONICS ENGINEERING

The key to the future of a smart nation is leveraging on the fundamentals of smart devices and systems.

With *Higher Nitec* in Electronics Engineering, you will become an integral part in the innovation and evolution of smart devices (smart phones, smart watches, robotics, drones and others). You will gain strong foundations and essential skills in electronics and a good headstart in your careers in the various sectors: Audio Visual Systems, Marine Electronics and IoT and Communications

You Will Learn

- Analogue Principles and Applications
- Digital Principles and Applications
- Communications and Networking
- Microcontroller Applications

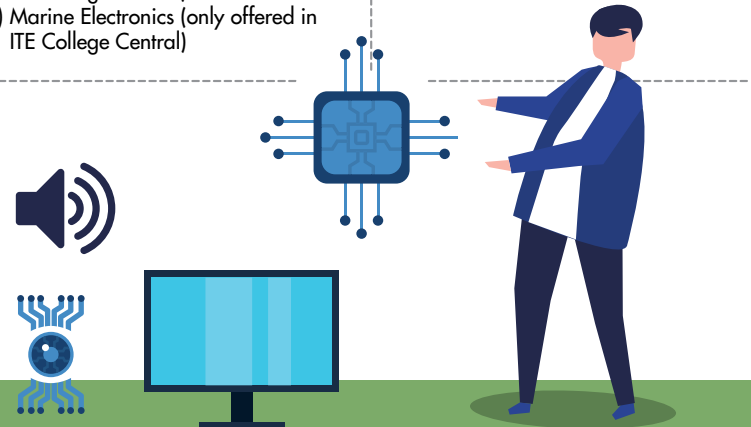
Students will be able to choose their specialisation in Year Two.

Specialisations include:

- 1) IoT and Communications
- 2) Audio Visual Systems (only offered in ITE College Central)
- 3) Marine Electronics (only offered in ITE College Central)

Career Prospects

- Computer Systems Specialist
- Communication Equipment Specialist
- Electronics Engineering Specialist
- Engineering Assistant
- Audio Visual Specialist
- Marine Electronics Service Technician / Engineer



Higher Nitec in GAMES ART & DESIGN

Have you ever seen amazing creatures, awesome spaceships, unforgettable characters and uncanny worlds in computer games? Have you ever wanted to create something like this on your own?

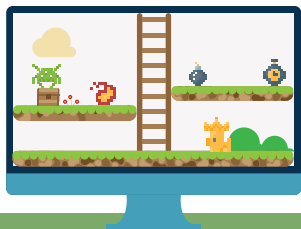
In *Higher Nitec* in Games Art & Design, you will see your creations come alive in the world of interactive game entertainment. You will learn to harness your imagination to create the works of art using tools like Photoshop and Maya. You will create characters, animations and environments to build a universe for gamers to experience, and learn how to develop 2D and 3D art assets that are used in computer games.

You Will Learn

- Games Design Principles
- Drawing Fundamentals
- 2D Games Asset Creation
- 3D Modelling and Texturing for Games
- Games Level Design
- 3D Rigging and Animation for Games
- Games Portfolio Development
- Special Effects for Games
- Web Games Production

Career Prospects

- Design Conceptual Artist
- Character Designer
- Game Level Designer



Higher Nitec in GAMES PROGRAMMING & DEVELOPMENT

Do games like "The Sims", "Pokémon", "Clash of Clans", "Halo", "Overwatch", "Fallout", "Warcraft" sound familiar to you? Does designing and creating fun, interesting computer games for entertainment or other (education or training) purposes excite you?

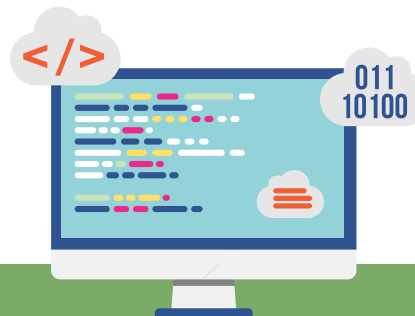
In *Higher Nitec* in Games Programming & Development, you will learn how to design and develop amazing game creations that captivate gamers, using programming tools like Unity, Unreal and Xcode.

You Will Learn

- Games Design Principles
- Programming Fundamentals
- Games Programming
- Games Development Techniques
- Mobile Games Development
- Games Level Design
- Games Integration and Testing
- Special Effects for Games

Career Prospects

- Game Tester
- Game Programmer
- Games Content Developer
- Games Software Engineer



Higher Nitec in IT APPLICATIONS DEVELOPMENT

Future-proof your career with skills to develop Next Generation IT Applications in the digital economy!

In *Higher Nitec* in IT Applications Development, you will develop highly sought-after skills and capabilities to develop and support business applications for the web and smart devices to meet business objectives across various industries.

You Will Learn

- User Experience Development
- Programming Fundamentals
- Interactive Applications Development
- Web Content Management
- Web Solutions Development
- Mobile Applications Programming
- Mobile Solutions Development
- Essentials in Android Applications Development

Career Prospects

- Application Programmer
- Rich Internet Application (RIA) Developer
- Application Support Analyst
- Web Commerce Applications Developer
- UI Programmer
- IT Specialist (Mobile Programmer)
- Mobile Applications Developer Support
- Web Developer Support
- Test Engineer



Higher Nitec in IT SYSTEMS & NETWORKS

Are you enthusiastic about how computer systems communicate with other computers and peripherals in a networked environment? Do you understand how viruses attack the computer systems and how this can be avoided?

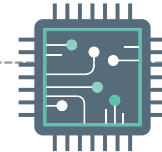
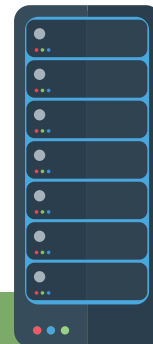
In *Higher Nitec* in IT Systems & Networks, you will learn how to install and maintain secured computer network systems across different platforms.

You Will Learn

- Computer Maintenance and Operating Systems
- Networking Technology
- System Administration
- Virtualization
- Systems Programming
- Wireless and Network Security
- Advanced Networking
- Mobile Applications Programming
- Digital Media Marketing
- Apple OS Administration
- Apple Hardware Repair

Career Prospects

- Network Support Specialist Technician
- IT Technical Support Specialist
- Web Developer
- Multimedia Developer
- Webmaster
- Associate System Administrator
- Desktop Support Engineer
- Network Traffic Engineer



Minimum Entry Requirements

NITEC

Course	Requirements
Electronics, Computer Networking & Communications Infocomm Technology Microelectronics Web Applications	3 GCE 'N' level passes or <ul style="list-style-type: none">Grade A to D (1 - 5): Mathematics or Science³ and two other subjects 2 GCE 'O' level grades <ul style="list-style-type: none">Grade 1 - 8 (any two subjects)

Footnotes

¹ Biology / Biotechnology / Chemistry / Combined Science / Computer Studies / Design & Technology / Engineering Science / Fundamentals of Electronics / Human & Social Biology / Integrated Science / Physical Science / Physics / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Science (Physics, Biology, Chemistry)

² GCE 'N(A)' school leavers who applied during the January intake under the Direct Entry Scheme will undergo ten weeks of preparatory programme followed by two years of *Higher Nitec* training.

³ Mobile Robotics and Smart Electrical Technology subjects can be used in lieu of Science for admission to these *Nitec* courses.

■ Applicants applying for this course must ensure that they are free from colour appreciation deficiency

Minimum Entry Requirements

HIGHER NITEC

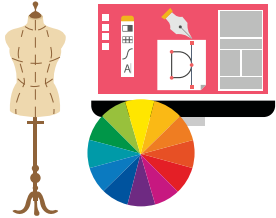
Course	Requirements
Broadcast & Media Technology	3 GCE 'O' level grades <ul style="list-style-type: none">Grade 1 - 8 in English LanguageGrade 1 - 7 in Mathematics (Elementary or Additional)Grade 1 - 8 in one approved subject¹
Electronics Engineering Games Art & Design IT Applications Development IT Systems & Networks	3 GCE 'O' level grades or <ul style="list-style-type: none">Grade 1 - 8 in English LanguageGrade 1 - 7 in Mathematics (Elementary or Additional)Grade 1 - 8 in an approved subject¹ 5 GCE 'N(A)' Level passes <ul style="list-style-type: none">Grade 1 - 4 in English LanguageGrade 1 - 4 in MathematicsGrade 1 - 5 in three other subjects <p><i>A total of 19 points or less for English, Mathematics and three other subjects (ELMAB3)² in the GCE N(A) Level examinations.</i></p>
Games Programming & Development	3 GCE 'O' level grades <ul style="list-style-type: none">Grade 1 - 8 in English LanguageGrade 1 - 7 in Mathematics (Elementary or Additional)Grade 1 - 8 in an approved subject¹

WHAT ABOUT ME?

1. Scan the QR code and complete the RIASEC profiling
2. Discover the Schools and industry clusters you may be inclined to based on your RIASEC codes.



Notes



School of DESIGN & MEDIA

R - Realistic, A - Artistic, E - Enterprising

Creative Arts & Fashion Industry

Express your individuality in the various aspects of the creative industry. Knowing how to synthesise technology and ideology is as important as having good aesthetic sense in this industry.

School of

BUSINESS & SERVICES

A - Artistic, S - Social, E - Enterprising

Social & Personal Services

Love to connect with others and make an impact in their lives? This industry offers you many opportunities to do just that and add that personal touch and flair to your work.



School of

ELECTRONICS & INFO-COMM TECHNOLOGY

R - Realistic, I - Investigative, C - Conventional

Info-comm Technology

Knowledge of computers and coding will give you the fundamentals. It's really all about understanding people's problems and using technology to make everyday lives easier and better.

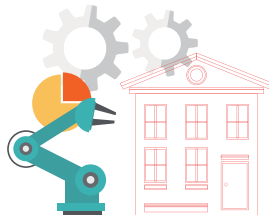


School of ENGINEERING

R - Realistic, I - Investigative, C - Conventional

Engineering

For practical and logical individuals who love problem-solving. Those who like working with people can also gain satisfaction in finding solutions to real-world problems.





Institute of Technical Education



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