



ITE 06/18/01

Press Release No. 01/15

NEW HIGHER NITEC COURSES FOR APRIL 2015 INTAKE

ITE introduces three Higher Nitec courses in Broadcast & Media Technology, Interactive Design and Rapid Transit Engineering

Preparing students for better jobs in growing sectors continues to be the driving force behind ITE's rigorous curriculum reviews. Prospective students of the April 2015 intake will have the opportunity to apply for **three new Higher Nitec** courses in Broadcast & Media Technology, Interactive Design and Rapid Transit Engineering. The increase will bring the total number of ITE's *Higher Nitec* courses to 45.

Equipping Specialists for Strong and Sustainable Job Markets

Students graduating from the **Higher Nitec in Broadcast & Media Technology** will be technical specialists who support the broadcasters and the digital media industry in master control operations, involving the workflow from content acquisition, archiving, post-production to multi-platforms delivery. The Ministry of Manpower¹ has also projected that interactive TV and film subsectors will be expanding into multi-platform delivery channels, with more content from broadcast and TV being offered as mobile entertainment.

Students of the **Higher Nitec in Interactive Design** course will be full-fledged 'interaction designers' upon graduation. An interaction designer is a creative team member who supports delivery of a wide range of interactive media products, using

¹ Labour Market Highlights 2011/2012 (Annex B):
<http://www.mom.gov.sg/Documents/Skills%20Training%20and%20Development/Labour%20Market%20Highlights%202011-12.pdf>
<http://www.mom.gov.sg/Documents/Skills%20Training%20and%20Development/Labour%20Market%20Highlights%202011-12.pdf>

text, data, graphics sound, animation and other digital and visual effects assets. They are responsible for ensuring that projects, such as web sites and mobile apps, meet their clients' requirements. The *Higher Nitec* in Interactive Design course is an enhancement of the *Nitec* in Interactive Media Design (IMD) course, which will be phased out.

Finally, students of the ***Higher Nitec in Rapid Transit Engineering*** course will have the opportunity to serve as Rapid Transit Technical Officers for either SMRT or SBS Transit, upon graduation. With the expansion of Singapore's rail network to 360 km by 2030, there will be a strong and sustainable demand for highly-skilled workers in the rapid transit industry. Students will be acquiring knowledge in rapid transit's communications, signalling, fare and integrated supervisory control systems.

More details on the new courses are at **Annex A**. The entry requirements for full-time *Higher Nitec* courses are attached at **Annex B**.

Registration Details

Type of Course	Application Details	Dates
Full-time <i>Higher Nitec</i> courses	GCE 'O' Level applicants may submit their applications via the MOE-JAE website at www.moe.gov.sg/education/admissions/jae/	Mon 12 Jan 2015 (3pm) to Fri 16 Jan 2015 (4pm)
Full-time <i>Nitec</i> courses	GCE 'O' Level applicants may submit their applications via the ITE website at www.ite.edu.sg .	Mon 12 Jan 2015 (3pm) to Thu 15 Jan 2015 (5pm)
<i>Nitec</i> Courses under the Traineeship Programme	GCE 'O' Level applicants may submit their applications via the ITE website at www.ite.edu.sg .	Mon 12 Jan 2015 (3pm) to Mon 9 Feb 2015 (5pm)

Higher Nitec Courses under the Traineeship Programme	Applicants are to apply in person at the Customer & Visitor Centre, ITE Headquarters (2 Ang Mo Kio Drive, Singapore 567720).	Mon 12 Jan 2015 (3pm) to Tue 31 Mar 2015 (5pm)
ITE Skills Certificate Courses under the Traineeship Programme		Mon 12 Jan 2015 (3pm) to Mon 9 Feb 2015 (5pm)

Media Publicity

Members of the media are invited to publicise the contents of this release to inform secondary school leavers and their parents of the new courses.

For more information, please contact:

Mr Victor Yen
Head/Stakeholder Communications, ITE
Tel: (65) 6590 2028
Mobile: (65) 9834 4481
Email: Victor_Yen@ite.edu.sg

Released on: 9 January 2015

Institute of Technical Education

The Institute of Technical Education (ITE), Singapore, was established as a post-secondary education institution in 1992 under the Ministry of Education. ITE is a principal provider of career and technical education and key developer of national occupational skills certification and standards to enhance Singapore's workforce competitiveness. Under its "One ITE System, Three Colleges" Model of Education and Governance, ITE has three Colleges, comprising ITE College Central, ITE College East and ITE College West. For more information, please visit www.ite.edu.sg

HIGHER NITEC IN BROADCAST & MEDIA TECHNOLOGY

高级国家工艺教育局证书 (广播与媒体科技)

Introduction

Media content is now increasingly available on multiple platforms. In part, this is due to the growing pervasiveness of Internet and multi-media devices. Adoption of shared digital technologies has also impacted not only content and delivery, but also the operations and corporate strategies of broadcast and media organisations. The transition towards digital platforms is in line with the announcement by local broadcaster, MediaCorp, that it will transmit all its free-to-air channels in full-digital format. Moreover, digital TV broadcast has been rolled out progressively since December 2013. The *Higher Nitec* in Broadcast & Media Technology course is therefore introduced to support the growing skills and competency gaps in the market to meet the challenges of this industry.

Course Outline

On completion of the course, students would have skills to:

- Handle incoming materials for broadcast
- Maintain media assets library
- Manage play-out system and operations
- Manage master control room functions
- Support broadcasting technical infrastructure
- Perform editing on broadcast-quality media

Entry Requirements

Applicants must have three GCE 'O' Level grades:

- Grade 1-8 in English Language
- Grade 1-7 in Mathematics (Elementary or Additional)
- Grade 1-8 in one of the following subjects:

[Biology / Biotechnology / Chemistry / Combined Science / Computer Studies / Engineering Science / Integrated Science / Physical Science / Physics / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Science (Physics, Biology, Chemistry)]

In addition to the above academic requirements, applicants must ensure that they are free from colour appreciation deficiency.

Duration

Two years

Projected Training Places

There will be a total of 40 students in ITE College Central.

Job Opportunities & Career Prospects

Higher Nitec in Broadcast & Media Technology graduates are employed by the major broadcasting organisations, content aggregators and post-production companies. Some of the job titles held by graduates include Broadcast and Media Technical Specialist, Broadcast Operation Executive/Specialist, Media Ingestion/Contents Operators, Master Control Operators and Network Transmission Assistant.

Progression Opportunities

Higher Nitec in Broadcast & Media Technology graduates may apply for progression to the first year of a related diploma course at the Polytechnics.

Facilities and Training

Students will be equipped with skills and technical knowledge in the core modules of Broadcast Media Ingestion, Media Assets Management, Media Processing and Application, Broadcast Distribution Services, Digital Media Technology and Broadcast Systems Technology. The course curriculum includes theory lessons in classrooms, hands-on training in the practical training laboratories, as well as industry attachment.

HIGHER NITEC IN INTERACTIVE DESIGN

高级国家工艺教育局证书(互动媒体设计)

Introduction

Currently, ITE offers *Nitec* in Interactive Media Design, *Nitec* in Visual Communication and *Nitec* in Visual Effects courses to train positions in Web Media Designer, Print Media Designer and Visual Effects Designer respectively.

Industry consultations for a major curriculum review of the *Nitec* in Interactive Media Design course have revealed that the skills requirements for Web Media Designers, more recently and popularly called Interaction Designers, has evolved over the last 5 years. Employers now expressed the need for interaction designers to be able to translate brand values into brand experience to drive value for the users. User Experience Design (UXD) skills are no longer the domain of senior Creative Directors, but expected contributions of every member of the interactive media creative team. Interaction designers also have to be skilled in front-end programming for interactive media applications deploying new technologies, such as HTML5, to support the full range of client devices and media platforms. With the increased skill requirements of the job, it is apparent that the *Higher Nitec* is a more appropriate skill level for the job.

With the introduction of the *Higher Nitec* in Interactive Design, the *Nitec* in Interactive Media Design course will be phased out.

Course Outline

On completion of the course, students should be able to:

- Produce drawing;
- Produce design artwork;
- Conceptualize web design;
- Design user interface;
- Create digital images;
- Create web animations;
- Manipulate videos;
- Create audio assets;
- Integrate websites; and
- Develop portfolio presentation.

Entry Requirements

Applicants must have three GCE 'O' Level grades:

- Grade 1-8 in English Language
- Grade 1-7 in Mathematics (Elementary/Additional) or Principles of Accounts
- Grade 1-8 in one other subject

[Note: To be eligible for selection, applicants must also have sat for Mathematics (Elementary or Additional)].

In addition to the academic requirements outlined above, applicants must be free from colour appreciation deficiency. Shortlisted candidates under Special Admissions Exercise (SAE) are required to attend an interview and drawing test before the final selection.

Successful students will be required to purchase a Laptop that will cost about \$500 – \$2,250 for the two-year course. This is in addition to the course fees. Financial assistance is available for eligible students, subject to terms and conditions. Apple Macbook Pro is recommended for academic and professional works.

Duration

Two years

Projected Training Places

There will be a total of 80 students in ITE College Central.

Job Opportunities & Career Prospects

Higher Nitec in Interactive Design graduates can develop their careers in any of the following industries:

- Rich Media and Publishing sub-sector of the Interactive Digital Media (IDM) sector ;
- Advertising;
- Graphic Design; and
- Publishing and Printing;

Some of the job titles held by graduates include:

- Interaction Designer;
- Desktop Artist / FA Artist;
- Graphic Designer;
- Layout Artist/Designer; and
- Visualiser

Progression Opportunities

Academically, graduates of *Higher Nitec* in Interactive Design may progress for further training in the following diploma courses:

<u>Institution</u>	<u>Course</u>
Nanyang Polytechnic	Diploma in Interaction Design Diploma in Visual Communication
Temasek Polytechnic	Diploma in Interactive Media Design
Republic Polytechnic	Diploma in Design for Interactivity Diploma in Interactive & Digital Media

Singapore Polytechnic

Diploma in Visual Communication & Media Design

Lasalle College of the Arts

Diploma in Design Communication

Nanyang Academy of Fine Arts

Diploma in Graphic Communication

Facilities and Training

Students will be equipped with skills and knowledge to design and develop responsive websites and design for applications, user interfaces for digital platforms and produce digital assets. The course curriculum includes hands-on practical training supported by theory lessons. Industry attachment is also included to prepare students for work in the real world.

HIGHER NITEC IN RAPID TRANSIT ENGINEERING

高级国家工艺教育局证书 (捷运工程)

Introduction

The rapid transit system is a key element of the public transport system in Singapore. It will be expanded to 360 km by 2030. In addition, existing MRT lines are currently undergoing major upgrades, retrofitting and improvements in terms of rail infrastructure and train technology.

In support of the nation's effort to keep our rapid transit system running in tiptop condition, ITE, in collaboration with SMRT and the rail industry, is pleased to announce the introduction of a new *Higher Nitec* in Rapid Transit Engineering course to train a pool of highly skilled rapid transit technical officers. They will be specialised in the maintenance of rail communications, signalling, and supervisory control systems.

Course Outline

On completion of the course, students should be able to maintain:

- Rapid transit communication system
- Rapid transit signalling system
- Rapid transit integrated supervisory control system

Entry Requirements

Applicants must have three GCE 'O' Level grades:

- Grade 1-8 in English Language
- Grade 1-7 in Mathematics (Elementary/Additional)
- Grade 1-8 in one of the following subjects:

[Biology/ Biotechnology/ Chemistry/ Combined Science/ Computer Studies/ Design & Technology/ Engineering Science/ Fundamentals of Electronics/ Integrated Science/ Physical Science/ Physics/ Science (Chemistry, Biology)/ Science (Physics, Biology)/ Science (Physics, Chemistry)/ Science (Physics, Biology, Chemistry)].

Applicants must also be free from colour appreciation deficiency.

Duration

Two years

Projected Training Places

There will be a total of 40 students in ITE College West.

Job Opportunities & Career Prospects

Higher Nitec in Rapid Transit Engineering graduates will be able to find attractive employment opportunities with mass rapid transit operators (SMRT, SBS Transit), Land Transport Authority as well as companies specialised in upgrading and retrofitting of rail communication, signaling and supervisory control systems.

Some of the job titles include Technician and Technical Officer.

Progression Opportunities

Higher Nitec in Rapid Transit Engineering graduates may apply for progression to the first year of a related diploma course at the Polytechnics. Examples of such courses include Mechanical, Electrical and Electronics Engineering Diplomas at local Polytechnics.

Facilities and Training

Students will be equipped with skills and technical knowledge in the core modules of rapid transit communications, signalling and supervisory control systems. As part of their training, students will also acquire invaluable hands-on relevant working experience in an authentic real work environment via a 3-month industry attachment in SMRT, SBS Transit and engineering companies in the rapid transit industry.


FULL-TIME HIGHER NITEC COURSES AND ENTRY REQUIREMENTS


Course Duration: 2 years

<i>Higher Nitec Course Title</i>	Minimum Entry Requirements
APPLIED SCIENCES	
Biotechnology	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 8 in one of the following subjects: <ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Combined Science • Engineering Science • Human & Social Biology • Integrated Science • Physical Science • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Biology, Chemistry)
Chemical Technology	
BUSINESS & SERVICES	
Accounting	3 GCE 'O' Grades: Grade 1 to 7 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) or Principles of Accounts Grade 1 to 7 in one other subject Note: <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i>
Banking Services	
Logistics for International Trade	
Event Management	3 GCE 'O' Grades: Grade 1 to 6 in English Language Grade 1 to 8 in Mathematics (Elementary/Additional) or Principles of Accounts Grade 1 to 7 in one other subject
Human Resource & Administration	
Retail Merchandising	
Service Management	
Shipping Operations & Services	

Higher Nitec Course Title	Minimum Entry Requirements
Sport Management	<p>Note: To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</p>
Early Childhood Education	<p>3 GCE 'O' Grades: Grade 1 to 4 in English Language Grade 1 to 6 in two other subjects</p> <p>Note: To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</p>
Leisure & Travel Operations	<p>3 GCE 'O' Grades: Grade 1 to 6 in English Language Grade 1 to 7 in two other subjects</p> <p>Note: To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</p>
Passenger Services	
Beauty & Spa Management	<p>3 GCE 'O' Grades: Grade 1 to 7 in English Language Grade 1 to 7 in two other subjects</p> <p>Note: To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</p>
DESIGN & MEDIA	
Filmmaking (Cinematography)	<p>3 GCE 'O' Grades: Grade 1 to 7 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) or Principles of Accounts Grade 1 to 7 in one other subject</p> <p>Note: To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</p>

Higher Nitec Course Title	Minimum Entry Requirements
Interactive Design NEW	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) or Principles of Accounts Grade 1 to 8 in one other subject Note: <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i>
Performance Production	3 GCE 'O' Grades: Grade 1 to 7 in English Language Grade 1 to 8 in Mathematics (Elementary/Additional) Grade 1 to 8 in one other subject
Space Design Technology	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 8 in one of the following subjects: <ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Combined Science • Computer Studies • Design & Technology • Engineering Science • Fundamentals of Electronics • Integrated Science • Physical Science • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Biology, Chemistry)
Visual Merchandising	3 GCE 'O' Grades: Grade 1 to 7 in English Language Grade 1 to 8 in two other subjects Note: <i>To be eligible for selection, you must also have sat for Mathematics</i>

Higher Nitec Course Title	Minimum Entry Requirements
	<i>(Elementary/Additional).</i>
ELECTRONICS & INFO-COMM TECHNOLOGY	
Electronics Engineering	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 8 in one of the following subjects:
Security System Integration	
Broadcast & Media Technology 	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 8 in one of the following subjects: <ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Combined Science • Computer Studies • Design & Technology • Engineering Science • Fundamentals of Electronics • Integrated Science • Physical Science • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Biology, Chemistry)
Business Information Systems	
Cyber & Network Security	
e-Business Programming	
Information Technology	
Mobile Unified Communications	

Higher Nitec Course Title	Minimum Entry Requirements
	<ul style="list-style-type: none"> • Science (Physics, Biology, Chemistry)
Games Art & Design	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 7 in one of the following subjects:
Games Programming & Development	<ul style="list-style-type: none"> • Combined Science • Computer Studies • Engineering Science • Integrated Science • Physical Science • Physics • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Biology, Chemistry)
ENGINEERING	
Civil & Structural Engineering Design	3 GCE 'O' Grades: Grade 1 to 8 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 8 in one of the following subjects: <ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Combined Science • Computer Studies • Design & Technology • Engineering Science • Fundamentals of Electronics • Integrated Science • Physical Science • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Biology, Chemistry)
Electrical Engineering	
Facility Management	
Facility Systems Design	
Marine Engineering	
Marine & Offshore Technology	
Mechanical Engineering	
Mechatronics Engineering	
Offshore & Marine Engineering Design	
Process Plant Design	
Rapid Transit Engineering 	

Higher Nitec Course Title	Minimum Entry Requirements
Engineering with Business	3 GCE 'O' Grades: Grade 1 to 7 in English Language Grade 1 to 7 in Mathematics (Elementary/Additional) Grade 1 to 8 in one of the following subjects: <ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Combined Science • Computer Studies • Design & Technology • Engineering Science • Fundamentals of Electronics • Integrated Science • Physical Science • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) • Science (Physics, Biology, Chemistry)
HOSPITALITY	
Hospitality Operations	3 GCE 'O' Grades: Grade 1 to 6 in English Language Grade 1 to 7 in two other subjects Note: <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i>