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News Release No. 01/16

ITE Introduces New *Higher Nitec* Course in Precision Engineering for April 2016 Intake

Equipping ITE graduates for higher skilled jobs continues to spur ITE's curriculum enhancements over the years. Graduates of *Nitec* courses in Aerospace Machining Technology, Machine Technology, Laser & Tooling Technology, Medical Manufacturing Technology and Precision Engineering will have the opportunity to apply for a new ***Higher Nitec in Precision Engineering*** course. The one-year course will be conducted at ITE College Central's School of Engineering and will be open only to graduating *Nitec* students.

This increase will bring the total number of ITE's *Higher Nitec* courses to 45. ITE now provides an array of 101 programmes, which include 53 *Nitec* and three Technical Diploma courses.

Competencies of Technical Specialists

Students graduating from the *Higher Nitec* in Precision Engineering can look forward to take up roles of Technical Specialists in the Precision Engineering industry. These Specialists prepare job requirements, perform CNC machining to produce precise parts, optimise machining parameters and processes involving tool management, troubleshooting of machining faults, and executing ad-hoc tasks as assigned, by using CNC machines and precision measuring instruments to meet customer requirements in quality, specifications, and delivery schedule.

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

Contribution to Industry

Mr Jeremy Fong, Chairman, Singapore Precision Engineering and Technology Association (SPETA), said, "As the association representing the Precision Engineering industry in Singapore, SPETA is pleased to endorse the *Higher Nitec* in Precision Engineering course. The course objectives, structure and the six-month industry attachment (IA) are well-thought out. The option for companies to continue another six months of IA with the same student is a good step forward. The longer IA allows students to understand and deepen their skills in the same company, which would also help them to make an informed career and employer choice."

Application Details

GCE 'O' Level school leavers who are interested in applying for ITE's Full-time *Higher Nitec* or *Nitec* courses, including Traineeship programmes, can refer to the following chart for application details.

Type of Course	Application Details	Dates
Full-time <i>Higher Nitec</i> courses (other than the new <i>Higher Nitec in Precision Engineering</i>)	GCE 'O' Level applicants may submit their applications via the MOE-JAE website at www.moe.gov.sg/education/admissions/jae/	Mon 11 Jan 2016 (3pm) to Fri 15 Jan 2016 (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 11 Jan 2016 (3pm) to Thu 14 Jan 2016 (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 11 Jan 2016 (3pm) to Fri 29 Jan 2016 (5pm)

<p><i>Higher Nitec Courses under the Traineeship Programme</i></p>	<p>Applicants are to apply in person at the Customer & Visitor Centre, ITE Headquarters (2 Ang Mo Kio Drive, Singapore 567720).</p>	<p>Mon 11 Jan 2016 (3pm) to Thu 31 Mar 2016 (5pm)</p>
<p>ITE Skills Certificate Courses under the Traineeship Programme</p>		

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 course.

For more information and arrangements for interviews and photography, please contact:

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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 PRECISION ENGINEERING

Course Outline

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

- Prepare job requirements
- Create, interpret and edit CNC part programme
- Perform tooling setup
- Perform CNC machining to produce precise parts
- Troubleshoot machining faults

Entry Requirements

Applicants must have completed at least one of the following *Nitec* courses, with a minimum Grade Point Average of 2.8 (inclusive of CCA bonus points), in order to be eligible for selection:

- *Nitec* in Aerospace Machining Technology
- *Nitec* in Machine Technology
- *Nitec* in Laser & Tooling Technology
- *Nitec* in Medical Manufacturing Technology
- *Nitec* in Precision Engineering

Duration

One year

Projected Training Places

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

Job Opportunities & Career Prospects

Higher Nitec in Precision Engineering graduates are employed as technical specialists by a wide range of niche manufacturing industries, in particular Aerospace, Semiconductor, Oil & Gas, Medical Technologies, as well as Precision Modules and Components, and Machinery and Systems sectors. There are excellent opportunities for career advancement to supervisory positions and beyond. The challenge is for students to prepare themselves by upgrading and deepening their technical skills and knowledge by taking up higher-level courses.

Progression Opportunities

Higher Nitec in Precision Engineering 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 CNC Machining (Turning), CNC Machining (Milling), CAD/CAM for Machining, Quality

Engineering, Advanced Materials & Metrology, and Advanced Machining & Tool Management. The course curriculum includes theory lessons in classrooms, hands-on training in the practical training laboratories, as well as a mandatory six-month industry attachment stint.

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	

Higher Nitec Course Title	Minimum Entry Requirements
Event Management	3 GCE 'O' Grades:
Human Resource & Administration	Grade 1 to 6 in English Language
Retail Merchandising	Grade 1 to 8 in Mathematics (Elementary/Additional)
Service Management	or Principles of Accounts *
Shipping Operations & Services	Grade 1 to 7 in one other subject
Sport Management	Note: * <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i>
Early Childhood Education	3 GCE 'O' Grades: Grade 1 to 6 in English Language Grade 1 to 6 in two other subjects Note: <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i>
Leisure & Travel Operations	3 GCE 'O' Grades:
Passenger Services	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>
Beauty & Spa Management	3 GCE 'O' Grades: Grade 1 to 7 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>

<i>Higher Nitec Course Title</i>	Minimum Entry Requirements
DESIGN & MEDIA	
Filmmaking (Cinematography)	<p>3 GCE 'O' Grades:</p> <p>Grade 1 to 7 in English Language</p> <p>Grade 1 to 7 in Mathematics (Elementary/Additional)</p> <p>or Principles of Accounts *</p> <p>Grade 1 to 7 in one other subject</p> <p>Note:</p> <p>* <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i></p>
Interactive Design	<p>3 GCE 'O' Grades:</p> <p>Grade 1 to 8 in English Language</p> <p>Grade 1 to 7 in Mathematics (Elementary/Additional)</p> <p>or Principles of Accounts *</p> <p>Grade 1 to 8 in one other subject</p> <p>Note:</p> <p>* <i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i></p>
Performance Production	<p>3 GCE 'O' Grades:</p> <p>Grade 1 to 7 in English Language</p> <p>Grade 1 to 8 in Mathematics (Elementary/Additional)</p> <p>Grade 1 to 8 in one other subject</p>

Higher Nitec Course Title	Minimum Entry Requirements
Space Design Technology	<p>3 GCE 'O' Grades:</p> <p>Grade 1 to 8 in English Language</p> <p>Grade 1 to 7 in Mathematics (Elementary/Additional)</p> <p>Grade 1 to 8 in one of the following subjects:</p> <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	<p>3 GCE 'O' Grades:</p> <p>Grade 1 to 7 in English Language</p> <p>Grade 1 to 8 in two other subjects</p> <p>Note:</p> <p><i>To be eligible for selection, you must also have sat for Mathematics (Elementary/Additional).</i></p>

<i>Higher Nitec Course Title</i>	Minimum Entry Requirements
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: <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)
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 • Engineering Science • 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
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:
Electrical Engineering	Grade 1 to 8 in English Language
Facility Management	Grade 1 to 7 in Mathematics
Facility Systems Design	(Elementary/Additional)
Marine Engineering	Grade 1 to 8 in one of the following subjects:
Marine & Offshore Technology	<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)
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>