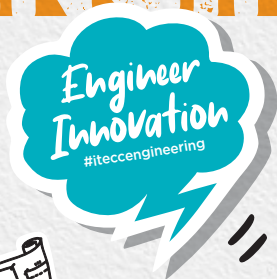


School of

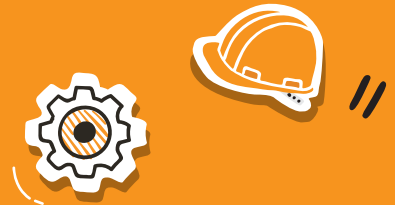
ENGINEERING



I can make a
difference!
#itecollegcentral



2 Ang Mo Kio Drive Singapore 567720
Tel : 1800 222 2111 / 6590 2211
www.ite.edu.sg/colleges/ite-college-central



ABOUT SCHOOL OF ENGINEERING

If you are empowered by innovation and excited to discover possibilities through inventions, ITE College Central's **School of Engineering** is for you. **School of Engineering** provides progressive programmes that are relevant to the changing needs of the industry. The effective hands-on training and robust industrial attachment experience both locally and abroad, will equip you with the skill sets and real work experience to set you ready for a career in engineering services and manufacturing-related industries.



ITE College Central



@itecollegcentral

Nitec in

AEROSPACE AVIONICS



I can make a
difference!



Nitec in Aerospace Avionics

School of ENGINEERING

Set foot into the pilot's flight deck and be fascinated by state-of-the-art instrumentation of flight management and control, navigation and communication systems.

In **Nitec in Aerospace Avionics**, you will learn to maintain and repair the communication, navigation, electronic flight instruments and electrical systems on-board various aircraft types housed in our very own aircraft hangar.

YOU WILL LEARN

- Aircraft General Maintenance
- Human Factors and Air Legislation
- Aircraft Electrical and Electronics Systems
- Aircraft Instrumentation System
- Aircraft Materials and Structures
- Aircraft Communication and Navigation Systems
- Aircraft Maintenance Practice

CAREER PROSPECTS

- Aircraft Technician (Avionics trade)
- Avionics Technician
- Aircraft Maintenance Technician

PROGRESSION OPPORTUNITIES

Nitec in Aerospace Avionics graduates with a Grade Point Average (GPA) of 3.5 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Nitec in Aerospace Avionics graduates with a GPA of 3.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Nitec in Aerospace Avionics graduates with a GPA of 2.3 and above may apply for progression to related *Higher Nitec* courses offered by ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in any 2 subjects:

Grade 1-8

OR

GCE 'N' Level passes in Mathematics and 2 other subjects:

Grade A-D or Grade 1-5

Note:

- Applicants for this course must ensure that they are free from colour appreciation deficiency
- Shortlisted applicants will be required to attend an interview for admission.

Nitec in

AEROSPACE MACHINING Technology



I can make a
difference!



Nitec in Aerospace Machining Technology

School of ENGINEERING

Do you know that an aeroplane is made up of many precise components of different materials and shapes?

Aerospace is a rapidly developing field with many new discoveries each year. Join **Nitec in Aerospace Machining Technology** and you will learn to manufacture aerospace components, using the state-of-the-art machines and software to monitor precision machine operations, as well as perform quality checks.

YOU WILL LEARN

- Engineering Drawing and Inspection Techniques
- Engineering Process (Turning)
- Engineering Process (Milling)
- 3D CAD/CAM Applications
- Aerospace Machining
- Multi-Axis Programming and Machining
- Assembly Skills
- Coordinate Measuring Techniques
- Grinding
- CNC EDM (Die-sink and Wire-cut)

CAREER PROSPECTS

- Manufacturing Specialist
- Aerospace Machining Specialist
- Precision Specialist

PROGRESSION OPPORTUNITIES

Nitec in Aerospace Machining Technology graduates with a Grade Point Average (GPA) of 3.5 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Nitec in Aerospace Machining Technology graduates with a GPA of 3.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Nitec in Aerospace Machining Technology graduates with a GPA of 2.3 and above may apply for progression to *Higher Nitec* courses offered by ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in any 2 subjects:

Grade 1-8

OR

GCE 'N' Level passes in Mathematics or Science* and 2 other subjects:

Grade A-D or Grade 1-5

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

Note:

Shortlisted applicants will have to attend an interview and aptitude test.

Nitec in

AEROSPACE TECHNOLOGY



I can make a
difference!

Nitec in Aerospace Technology

School of
ENGINEERING

Millions of people across the world fly every day. They put their lives in the hands of the skilled technicians who keep the aircraft airworthy.

Join **Nitec in Aerospace Technology** and learn how to maintain and repair aircraft, aero-structures and engine systems in the growing aerospace industry. This course will equip you with the technical knowledge and skills to work in the aerospace industry.

This is a Singapore Airworthiness Requirements Part-147 (SAR-147) course currently approved by Civil Aviation Authority Singapore (CAAS).

YOU WILL LEARN

- Aircraft General Maintenance
- Aircraft Electrical System Maintenance
- Airframe Maintenance
- Human Factors and Air Legislation
- Aircraft System Maintenance
- Aircraft Propulsion Maintenance
- TIG Welding
- Non-Destructive Testing
- Basic Principle of Helicopter
- Composite Structure Repairs
- Applied Aviation Science and Mathematics

CAREER PROSPECTS

- Aircraft Maintenance Technician
- Aircraft Engine Technician
- Aircraft Structural Repair Technician
- Aircraft Sheet Metal Technician
- Aircraft Technician (Airframe and Engine)

PROGRESSION OPPORTUNITIES

Nitec in Aerospace Technology graduates with a Grade Point Average (GPA) of 3.5 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Nitec in Aerospace Technology graduates with a GPA of 3.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Nitec in Aerospace Technology graduates with a GPA of 2.3 and above may apply for progression to related *Higher Nitec* courses offered by ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in any 2 subjects:

Grade 1-8

OR

GCE 'N' Level passes in Mathematics and 2 other subjects:

Grade A-D or Grade 1-5

Note:

- Applicants for this course must ensure that they are free from colour appreciation deficiency.
- Shortlisted applicants will have to attend an interview and aptitude test.

Nitec in

DIGITAL

& PRECISION
Engineering



I can make a
difference!

Nitec in Digital & Precision Engineering

School of
ENGINEERING

Learn how digital technologies are incorporated into the manufacturing landscape, from digital twins to real time monitoring and wireless technologies.

Nitec in Digital & Precision Engineering teaches you how a smart factory uses digital systems to create products and improve manufacturing processes via Internet of Things. As a key pillar of engineering, you will learn how to set up and control state-of-the-art machines to produce components for the aerospace, oil and gas, semiconductor, medical industries and many more.

YOU WILL LEARN

- Engineering Drawing and Inspection Techniques
- Engineering Process (Turning)
- Engineering Process (Milling)
- 3D CAD/CAM Applications
- Digital Manufacturing Processes
- Machine Monitoring Systems
- Assembly Skills
- Grinding
- Design Conceptualisation & Rapid Prototyping

CAREER PROSPECTS

- Engineering Technologist
- Precision Machinist
- Machining Specialist
- Quality Control Technician

PROGRESSION OPPORTUNITIES

Nitec in Digital & Precision Engineering graduates with a Grade Point Average (GPA) of 3.5 and above may apply for progression to the first year of a related diploma course at the Polytechnics. .

Nitec in Digital & Precision Engineering graduates with a GPA of 3.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Nitec in Digital & Precision Engineering graduates with a GPA of 2.3 and above may apply for progression to *Higher Nitec* courses offered by ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in any 2 subjects:

Grade 1-8

OR

GCE 'N' Level passes in Mathematics or Science* and 2 other subjects:

Grade A-D or Grade 1-5

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



You have been interested in mechanical devices. You have the desire to do something hands-on. You take things apart and do modifications to satisfy your curiosity.

Nitec in Mechanical Technology provides students with the skills and knowledge to perform mechanical services and maintain machinery, plant equipment and basic automation control systems.

YOU WILL LEARN

- CAD & 3D Printing
- IoT & Electrical Applications
- Industrial Piping and Valve System
- Machinery Maintenance
- Electro Pneumatics and Hydraulics
- Plant Equipment Maintenance
- Metrology
- Turning
- Mechanical Fabrication
- Engineering Design
- Bearing Technology



ENTRY REQUIREMENTS

Completed GCE 'N' Level
or GCE 'O' Level

CAREER PROSPECTS

- Maintenance Technician
- Mechanical Engineering Technician

PROGRESSION OPPORTUNITIES

Nitec in Mechanical Technology graduates with a Grade Point Average (GPA) of 3.5 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Nitec in Mechanical Technology graduates with a GPA of 3.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Nitec in Mechanical Technology graduates with a GPA of 2.3 and above may apply for progression to related *Higher Nitec* courses offered by ITE.

Nitec in MECHATRONICS & ROBOTICS



I can make a
difference!

Nitec in Mechatronics & Robotics

School of ENGINEERING

Are you amazed with what autonomous machines such as automated guided vehicles, driverless cars and robots can do and how they work?

Nitec in Mechatronics & Robotics is a 3-in-1 course consisting of mechanical, electrical/electronics and microcomputer controlled system that will equip you with essential knowledge and skills of the multidisciplinary fields. These will enable you to install, set up, operate, maintain and service industrial automated production equipment and systems. You will learn to perform computer-aided drafting and design, construct and assemble mechanical support, and rectify basic electronics & electrical faults.

YOU WILL LEARN

- Pneumatics
- Robotics
- Electrical & Electronics Practices
- CAD & Mechanical Systems
- Drives & Motor Control
- PLC & Automation
- Application Mathematics
- Animatronics
- Microcontroller Applications
- Production Control System and Applications

CAREER PROSPECTS

- Automation Technician
- Automated Equipment Maintenance Technician
- Mechatronics Technician

PROGRESSION OPPORTUNITIES

Nitec in Mechatronics & Robotics graduates with a Grade Point Average (GPA) of 3.5 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Nitec in Mechatronics & Robotics graduates with a GPA of 3.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Nitec in Mechatronics & Robotics graduates with a GPA of 2.3 and above may apply for progression to related *Higher Nitec* courses offered by ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in any 2 subjects:

Grade 1-8

OR

GCE 'N' Level passes in Mathematics or Science* and 2 other subjects

Grade A-D or Grade 1-5

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

Note:

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

Higher Nitec in ENGINEERING with BUSINESS



I can make a
difference!



Higher Nitec in Engineering with Business

School of ENGINEERING

Ready to be part of the Engineering and Business workforce? This multi-disciplinary course covers skills and competencies for engineering, manufacturing processes and business.

Higher Nitec in Engineering with Business will provide you with the essential skills and knowledge to carry out technical support functions in engineering design and operations, machine operations and maintenance, quality assurance, process improvements and productivity innovation. It also covers business fundamentals such as technical marketing, purchasing, logistic administration, sales and services.

YOU WILL LEARN

- Mathematics and Engineering Systems
- CAD and Engineering Design
- Quality Engineering
- Engineering Materials and Mechanics
- Elements of Business Practice
- Manufacturing Processes and Prototyping
- Manufacturing Engineering
- Fundamentals of Marketing
- Conventional Machining
- Jig and Fixture Design
- Product Prototyping

CAREER PROSPECTS

- Engineering Assistant
- Manufacturing Engineering Technician
- Quality Assurance Technician
- Production Supervisor
- Quality Control Technician
- Quality Process Technician
- Sales Executive
- Assistant Sales Engineer

PROGRESSION OPPORTUNITIES

Higher Nitec in Engineering with Business graduates with a Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Engineering with Business graduates with a GPA of 2.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:

Grade 1-8 in English Language

Grade 1-7 in Mathematics (Elementary or Additional)

Grade 1-8 in an approved subject: Biology / Biotechnology / Chemistry / Combined Science / Computing / Computer Studies / Design & Technology / Electronics / Fundamentals of Electronics / Human & Social Biology / Integrated Science / Physics/ Engineering Science / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Physical Science / Science (Physics, Biology, Chemistry)

Higher Nitec in MARINE & OFFSHORE Technology



I can make a
difference!

Higher Nitec in Marine & Offshore Technology

School of ENGINEERING

Are you interested to be part of the Marine industry and ensure the smooth sailing of ships, vessels and offshore structures?

In **Higher Nitec in Marine & Offshore Technology**, you will learn how to provide technical support, supervise fabrication, repair and refurbishment activities of all types of vessels and offshore structures, in the marine and offshore industry.

YOU WILL LEARN

- Quality Engineering
- Ship Systems
- Welding Technology
- Fabrication Technology
- Pipe Design and Systems
- Offshore Technology
- Basic Naval Architecture
- Ship and Offshore Survey
- Marine Project Planning and Management

CAREER PROSPECTS

- Assistant Supervisor
- Trainee Supervisor
- Assistant Marine Supervisor
- Foreman

PROGRESSION OPPORTUNITIES

Higher Nitec in Marine & Offshore Technology graduates with a Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Marine & Offshore Technology graduates with a GPA of 2.0 and above together with 2 years of relevant work experience may apply for progression to a related Technical Engineer Diploma course at ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:

Grade 1-8 in English Language

Grade 1-7 in Mathematics (Elementary or Additional)

Grade 1-8 in an approved subject: Biology / Biotechnology / Chemistry / Combined Science / Computing / Computer Studies / Design & Technology / Electronics / Fundamentals of Electronics / Human & Social Biology / Integrated Science /

Physics/ Engineering Science / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Physical Science / Science (Physics, Biology, Chemistry)



You are fascinated by how gracefully huge metal ships glide through the water. You want to ensure that these vessels operate smoothly and contribute to the robust maritime industry.

If these statements describe you, **Higher Nitec in Marine Engineering** is for you. Learn how to inspect ship systems and machinery components, design and fabricate jigs and fixtures, align marine machinery, repair and maintain marine control circuits and shipboard equipment.

YOU WILL LEARN

- Quality Engineering
- Ship Systems
- Marine Propulsion System
- Marine Workshop Technology
- Marine Auxiliary Systems
- Marine Control Systems and Instrumentation
- Engineering Watchkeeping
- Shipboard Legislation and Resource Management

CAREER PROSPECTS

- Assistant Marine Supervisor (Mechanical)
- Foreman (Mechanical)
- Marine Engineering Officer (Special Limits)

PROGRESSION OPPORTUNITIES

Higher Nitec in Marine Engineering graduates with a Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Marine Engineering graduates with a GPA of 2.0 and above together with 2 years of relevant work experience may apply for progression to a related Technical Engineer Diploma course at ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:

Grade 1-8 in English Language

Grade 1-7 in Mathematics (Elementary or Additional)

Grade 1-8 in an approved subject: Biology /

Biotechnology / Chemistry / Combined Science /

Computing / Computer Studies / Design &

Technology / Electronics / Fundamentals of Electronics /

Human & Social Biology / Integrated Science /

Physics/ Engineering Science / Science

(Chemistry, Biology) / Science (Physics, Biology) /

Science (Physics, Chemistry) / Physical Science / Science (Physics,

Biology, Chemistry)

Higher Nitec in



MECHANICAL ENGINEERING



I can make a difference!

Higher Nitec in Mechanical Engineering

School of ENGINEERING

Do you wish to be part of the team that helps to improve the operational efficiency of machines and processes in a production or an engineering environment?

Higher Nitec in Mechanical Engineering will equip you with the skills and technical knowledge to carry out technical support functions in mechanical engineering design, production, quality assurance, materials control and maintenance of automated machines and equipment.

YOU WILL LEARN

- Mathematics and Engineering Systems
- CAD and Engineering Design
- Quality Engineering
- Engineering Materials and Mechanics
- Engineering Development and Applications
- System Integration and Controls
- Conventional Machining
- Jig and Fixture Design
- Product Prototyping

CAREER PROSPECTS

- Engineering Assistant
- Mechanical Engineering Technician
- Maintenance Supervisor
- Quality Assurance Technician
- Quality Process Technician

PROGRESSION OPPORTUNITIES

Higher Nitec in Mechanical Engineering graduates with a Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Mechanical Engineering graduates with a GPA of 2.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:

Grade 1-8 in English Language

Grade 1-7 in Mathematics (Elementary or Additional)

Grade 1-8 in an approved subject: Biology / Biotechnology / Chemistry / Combined Science / Computing / Computer Studies / Design & Technology / Electronics / Fundamentals of Electronics / Human & Social Biology / Integrated Science / Physics/ Engineering Science / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Physical Science / Science (Physics, Biology, Chemistry)

OR

GCE 'N(A)' Level passes in English Language, Mathematics and 3 other subjects:

Grade 1-4 in English Language

Grade 1-4 in Mathematics

Grade 1-5 in 3 other subjects;
and

A total of 19 points or less for English, Mathematics and three other subjects (ELMAB3)*

* Eligible, graduating GCE N(A) students who applied and enrolled during the January intake under the Direct Entry Scheme, will undergo 10 weeks of preparatory programme, followed by 2 years of Higher Nitec training.

Higher Nitec in MECHATRONICS ENGINEERING



I can make a
difference!



Higher Nitec in Mechatronics Engineering

School of ENGINEERING

Have you ever wanted to work in the Automation industry?

Join **Higher Nitec in Mechatronics Engineering** and learn broad-based skills and knowledge in electrical, electronic and mechanical disciplines to enable you to perform work involving assembling, installing, and setting up industrial automated equipment and systems.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:

Grade 1-8 in English Language

Grade 1-7 in Mathematics (Elementary or Additional)

Grade 1-8 in an approved subject: Biology / Biotechnology / Chemistry / Combined Science / Computing / Computer Studies / Design & Technology / Electronics / Fundamentals of Electronics / Human & Social Biology / Integrated Science / Physics/ Engineering Science / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Physical Science / Science (Physics, Biology, Chemistry)

OR

GCE 'N(A)' Level passes in English Language, Mathematics and 3 other subjects:

Grade 1-4 in English Language

Grade 1-4 in Mathematics

Grade 1-5 in 3 other subjects;

and

A total of 19 points or less for English, Mathematics and three other subjects (ELMAB3)*

* Eligible, graduating GCE N(A) students who applied and enrolled during the January intake under the Direct Entry Scheme, will undergo 10 weeks of preparatory programme, followed by 2 years of *Higher Nitec* training.

Note:

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

YOU WILL LEARN

- CAD & Mechanical Applications
- Electrical & Electronics Applications
- Pneumatics & Automation
- PLC & Motor Control
- Cyber Physical Systems
- Robotics Systems
- Hydraulics
- Single Board Micro-controller Applications
- Lean Manufacturing

CAREER PROSPECTS


- Automation Technician
- Engineering Assistant
- Industrial Engineering Technician
- Mechatronics Technician
- Plant Maintenance Technician
- Production Supervisor

PROGRESSION OPPORTUNITIES

Higher Nitec in Mechatronics Engineering graduates with a Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Mechatronics Engineering graduates with a GPA of 2.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.

Higher Nitec in OFFSHORE & MARINE Engineering Design



I can make a
difference!

Higher Nitec in Offshore & Marine Engineering Design

School of ENGINEERING

Are you interested to be part of a team that designs ships that can carry out its tasks efficiently and economically?

Play an important role in the marine and offshore industry through **Higher Nitec in Offshore & Marine Engineering Design**, as you will learn to design and prepare working drawings for offshore and marine structures, accommodation facilities, marine piping and marine electrical and control systems.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:

Grade 1-8 in English Language

Grade 1-7 in Mathematics (Elementary or Additional)

Grade 1-8 in an approved subject: Biology /

Biotechnology / Chemistry /

Combined Science / Computing / Computer Studies / Design &

Technology / Electronics / Fundamentals of Electronics /

Human & Social Biology / Integrated Science /

Physics/ Engineering Science / Science

(Chemistry, Biology) /

Science (Physics, Biology) /

Science (Physics, Chemistry) /

Physical Science /

Science (Physics, Biology, Chemistry)

YOU WILL LEARN

- Engineering Graphics
- Offshore and Marine Structure Design
- Offshore and Marine Electrical System Design
- Offshore and Marine Piping System Design
- Offshore and Marine HVAC System Design
- Marine Structure and System Modelling
- Solid Modelling
- Engineering Project Management

CAREER PROSPECTS

- Offshore & Marine Engineering CAD Specialist
- Assistant Technical Engineer
- Technical Associate





PROGRESSION OPPORTUNITIES

Higher Nitec in Offshore & Marine Engineering Design graduates with a

Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Offshore & Marine Engineering Design graduates with a GPA of 2.0 and above together with 2 years of relevant work experience may apply for progression to a related Technical Engineer Diploma course at ITE.

Higher Nitec in ROBOTICS & SMART systems



Higher Nitec in Robotics & Smart Systems

School of ENGINEERING

Do you want to be trained and be ready for the Robotics industry?

Higher Nitec in Robotics & Smart Systems will provide you with the knowledge, skills and hands-on training in robotics programming, smart systems design, setup and testing. At the end of the course, you will be able to set up, install, program and calibrate robotics and smart systems used in the industrial and service sectors.

YOU WILL LEARN

- Robotics & Applications
- Electrical Applications
- Mobile Robotics & Control
- Smart Sensors & Integration
- End Effectors
- Smart Systems & Programming
- Hydraulics
- Single Board Micro-controller Applications

CAREER PROSPECTS

- Robotics Technician
- Robotics Coordinator
- Robotics Specialist
- Technician (Robotics)
- Engineering Assistant (Robotics)

PROGRESSION OPPORTUNITIES

Higher Nitec in Robotics & Smart Systems graduates with a Grade Point Average (GPA) of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Robotics and Smart Systems graduates with a GPA of 2.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.



ENTRY REQUIREMENTS

GCE 'O' Level grades in English Language, Mathematics and 1 approved subject:
Grade 1-8 in English Language
Grade 1-7 in Mathematics (Elementary or Additional)
Grade 1-8 in an approved subject: Biology / Biotechnology / Chemistry / Combined Science / Computing / Computer Studies / Design & Technology / Electronics / Fundamentals of Electronics / Human & Social Biology / Integrated Science / Physics/ Engineering Science / Science (Chemistry, Biology) / Science (Physics, Biology) / Science (Physics, Chemistry) / Physical Science / Science (Physics, Biology, Chemistry)

Note:

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

Higher Nitec in



PRECISION

ENGINEERING



I can make a
difference!

Higher Nitec in Precision Engineering

School of ENGINEERING

Have you ever wondered how precision engineering works in real life?

In **Higher Nitec in Precision Engineering**, you will learn to create and interpret CNC part program, and use CNC machining to produce the precise parts. You will be equipped with the skills and technical knowledge to prepare working drawings and assist in the design of process plants with application software.

YOU WILL LEARN

- Advanced Materials and Metrology
- Advanced Machining and Tool Management
- Product Prototyping

CAREER PROSPECTS

- Manufacturing Technician
- Aerospace, Oil & Gas, Medical Parts Precision Machinist
- CAD/CAM Specialist
- Quality Assurance Technician

PROGRESSION OPPORTUNITIES

Higher Nitec in Precision Engineering graduates with a GPA of 2.0 and above may apply for progression to the first year of a related diploma course at the Polytechnics.

Higher Nitec in Precision Engineering graduates with a GPA of 2.0 and above may apply for progression to a related Technical Engineer Diploma course at ITE.



ENTRY REQUIREMENTS

Nitec GPA

Nitec graduates of the following courses with minimum Grade Point Average (GPA) of 2.8 (inclusive of CCA bonus points):

- Aerospace Machining Technology
- Digital & Precision Engineering
- Laser & Tooling Technology
- Machine Technology
- Medical Manufacturing Technology
- Precision Engineering (Aerospace / Injection Mould / Machining / Press Tool / Tool & Mould)