SCHOOL OF
ENGINEERING

› Common Engineering Programme
› Engineering Science
› Aerospace Engineering
› Automation & Mechatronic Systems
› Biomedical Engineering
› Electrical Engineering
› Electronic & Computer Engineering
› Marine & Offshore Technology
› Mechanical Engineering
Engineering With That Something Xtra!

School of ENGINEERING

5 Common Engineering Programme (N71)
9 Engineering Science (N93)
13 Aerospace Engineering (N65)
18 Automation & Mechatronic Systems (N50)
22 Biomedical Engineering (N60)
25 Electrical Engineering (N43)
29 Electronic & Computer Engineering (N44)
32 Marine & Offshore Technology (N42)
35 Mechanical Engineering (N41)

From industry induction to mentorship, the Future City Programme to overseas exposure, you’ll find engineering with that something xtra at Ngee Ann Polytechnic’s School of Engineering (SoE), where we are pushing the frontiers of robotics research. Translate your ideas into innovative solutions to improve lives and shape the world around you through our top-notch courses like the Common Engineering Programme and Diploma in Engineering Science!
Welcome to the all-in-one Engineering School where there are 8 engineering diplomas and multiple specialisation options for you to pick from, depending on your interest or aptitude.

**Common Engineering Programme (CEP)**
Not sure which engineering discipline best suits you? Get an all-access pass through the special Common Engineering Programme (CEP), and gain a better understanding of the different engineering disciplines before you make your choice. At the end of your first semester, you will get to choose your preferred diploma from either the Electrical & Electronic Track or the Mechanical Track. Find out more about CEP on Page 5!

**Engineering Science (ES)**
Get a strong foundation in engineering and related domains such as mathematics, physics, applied science and research. Acquire skills in emerging technologies such as artificial intelligence and machine learning. This unique and dynamic diploma gives you a head start for further studies or work.

**Aerospace Engineering (AEG)**
The only aerospace diploma that allows you to choose between the Avionics and Mechanical specialisation options. Its broad-based curriculum with a strong engineering foundation makes it a very versatile diploma with diverse career pathways.

**Automation & Mechatronic Systems (AMS)**
A well-designed curriculum that combines mechanics, electronics and programming to engineer smart machines such as autonomous vehicles, robots and smart devices. Your gateway to an exciting world of robotics!

**Biomedical Engineering (BME)**
The only poly diploma that bridges engineering and life sciences. Acquire skills to work on the design and development of medical devices and healthcare equipment. With growing healthcare needs globally, you can look forward to a rewarding career in the MedTech field.

**Electrical Engineering (EE)**
A unique diploma that infuses elements of energy management and clean energy technologies into electrical engineering to enable you to tap on opportunities in the sustainable energy, power, built environment and transport sectors.

**Electronic & Computer Engineering (ECE)**
A solid diploma that gives you a strong foundation in electronic hardware design, software programming skills and computer networks.

**Marine & Offshore Technology (MOT)**
A unique course that covers both naval architecture and offshore engineering.

**Mechanical Engineering (ME)**
A broad-based curriculum that prepares you for the future economy in precision engineering and manufacturing; facilities and infrastructure; environment and energy; and transportation.

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**WHY CHOOSE SOE**
At SoE, there are many exciting opportunities to inspire your passion for learning and innovating. Our strong industry links also ensure that you pick up relevant industry skills and are exposed to emerging technologies. With the broad-based curriculum that SoE offers, you can expect limitless possibilities and a journey with that something xtra.

**HANDS-ON LEARNING**
Design and develop engineering solutions that benefit society and make classroom learning more purposeful.

**INTEGRATED REAL-WORLD PROJECT**
Work on an integrated project across disciplines where you will develop solutions for real-world problems using the design thinking methodology.

**FUTURE CITY PROGRAMME**
Shape the Singapore of tomorrow through this unique programme! You will get exposed to or be involved in future city projects through mentorships, learning journeys and internships with government agencies and top-notch companies.

**UNIVERSITY RESEARCH**
Work with professors from NUS, NTU and SUTD on real-world projects in areas like artificial intelligence and photonics.

**CAREER HEAD START**
Participate in our unique and exciting induction programmes at the start of your journey at SoE. It includes industry visits and talks that give you a sneak peek at the wide spectrum of careers in the field of engineering.

**EXPERTISE IN ROBOTICS**
Take advantage of NP’s deep expertise in robotics research, and create cutting-edge robotics solutions for industry at NP’s Robotics Research & Innovation Centre.

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Scan the QR code to find out more about the Future City Programme!
PERSONALISED LEARNING PATHWAY

Ever wished that you could learn something you like, and at the same time, gain an Xtra edge? With NP’s new and unique Personalised Learning Pathway (PLP), your dream has just come true!

Under the PLP, you can take up a Minor certificate programme in an area that is outside of your diploma. Choose from 10 Minors across 4 pathways – Professional Skills, Entrepreneurship, Global Readiness and Social Leadership.

The Minor can be in an emerging area such as Data Analytics & AI and User Experience Design, or a subject of interest like Applied Psychology and Korean language! If you complete all the 3 curated learning units, you will graduate with a Minor Certificate on top of your diploma!

Visit www.np.edu.sg/plp or scan the QR code to find out more.

COMMON ENGINEERING PROGRAMME

Get more time to discover your interests before deciding on one of our eight diplomas

Common foundational modules expose you to different engineering disciplines

Unique Induction Programme provides early industry exposure to help you make an informed course choice
WHAT THE COURSE IS ABOUT

Interested in the world of engineering but unsure about what course to go for? With the Common Engineering Programme (CEP), you will have more time to explore the many fields of engineering instead of deciding on a specific discipline straight away.

During the first semester, you’ll go on our unique Induction Programme to gain real-world experience through industry visits and dialogues, and receive career guidance to help you make a more informed decision in your course selection. You will also build a broad-based foundation in mechanical, electronic and electrical engineering, as well as mathematics and programming. Apply the knowledge that you’ve learnt by working on an integrated real-world project.

You’ll get to choose either the Electrical & Electronic Track or Mechanical Track after your first semester, and select a specific engineering diploma* to major in by the end of your first year. Upon graduation, you will receive the same diploma as your peers who have enrolled for a particular course right from the start.

* Choose one of the eight Engineering Diplomas!

Electrical & Electronic Track
- Aerospace Engineering (Avionics Option) (page 13)
- Engineering Science (page 9)
- Biomedical Engineering (page 22)
- Electrical Engineering (page 25)
- Electronic & Computer Engineering (page 29)

Mechanical Track
- Aerospace Engineering (Mechanical Option) (page 13)
- Automation & Mechatronic Systems (page 18)
- Marine & Offshore Technology (page 32)
- Mechanical Engineering (page 35)

I appreciated the fact that I could explore different fields of engineering in CEP. Through CEP, I had more time to discover my interests, strengths and preferences before deciding on a specific discipline.

Valdric Lim
Automation & Mechatronic Systems student, Year 3

YEAR 1, SEMESTER 1
Common Engineering Modules

YEAR 1, SEMESTER 1
At end of Year 1, Semester 1:
Choose either Electrical & Electronic Track or Mechanical Track

YEAR 1, SEMESTER 2
Electrical & Electronic Track
(Choose your preferred course within this track)
- Engineering Science (page 9)
- Aerospace Engineering (Avionics Option) (page 13)
- Biomedical Engineering (page 22)
- Electrical Engineering (page 25)
- Electronic & Computer Engineering (page 29)

YEAR 1, SEMESTER 2
Mechanical Track
(Choose your preferred course within this track)
- Aerospace Engineering (Mechanical Option) (page 13)
- Automation & Mechatronic Systems (page 18)
- Marine & Offshore Technology (page 32)
- Mechanical Engineering (page 35)
WHAT YOU WILL LEARN

YEAR 1
Common Modules
- Engineering Mathematics 1
- Electrical Engineering Fundamentals
- Mechanical Engineering Fundamentals
- Programming
- Integrated Real-world Project 1
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

Choose either the Electrical & Electronic Track or Mechanical Track at the end of your first semester.

Electrical & Electronic Track
YEAR 1
- Engineering Mathematics 2
- Analogue Electronics
- AC Circuits
- Digital Fundamentals
- Integrated Real-world Project 2

Mechanical Track
YEAR 1
- Engineering Mathematics 2
- Electrical & Electronics Technology
- Materials & Manufacturing Technology
- Thermofluids
- Integrated Real-world Project 2

You will select your preferred diploma towards the end of your second semester. Refer to the module listing in the respective diploma pages for more details.

YEAR 2
- Core modules under the engineering diploma you major in
- World Issues: A Singapore Perspective

YEAR 3
- Core modules under the engineering diploma you major in
- Project ID: Connecting the Dots

CAREER
Refer to the Career section on the respective diploma pages.

FURTHER STUDIES
Refer to the Further Studies section on the respective diploma pages.

ENTRY REQUIREMENTS

Aggregate Type ELR2B2-C
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with hearing deficiency or severe vision deficiency should not apply for the course. Those with colour vision deficiency may be considered, subject to an in-house test.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

A taste of university life with applied R&D projects at local universities and research institutes

Exciting learning opportunities such as overseas immersion programme or study visits and early R&D exposure at top-notch universities in Singapore, Japan and China, as well as renowned research institutes such as A*STAR

A unique diploma that paves the way for further studies, with accreditation from NTU and NUS for a wide range of degrees, and module exemptions from SUTD for selected courses

Prestigious Scholarships
- NP Scholarship
- DSTA Polytechnic Engineering Scholarship
- A*STAR Science Award
- DSO Diploma Scholarship
- Singtel Engineering Cadet Scholarship
- Ngee Ann Kongsi Tertiary Awards Polytechnic Scholarship
- Lien Ying Chow Scholarship
- Liu Yin Soon Scholarship
- CSIT Scholarship
WHAT THE COURSE IS ABOUT
You’re passionate about engineering applications, but also love the sciences. You’re strong in both math and physics. You’re also keen to explore scientific research and discover new ways to solve real-world problems. How about honing all these interests through our top-notch Diploma in Engineering Science (ES), whose graduates have topped NP’s graduating cohorts and secured places in prestigious university programmes. Check out pages 39 and 41 to find out more!

The unique ES diploma prepares you well for a wide range of degrees and careers in fields such as artificial intelligence and machine learning; computer, electrical, electronic and mechanical engineering; as well as material and even medical science.

During the first two years, you will be equipped with a strong foundation in engineering and related domains such as mathematics, physics, applied science and research. You will attend lectures by distinguished guests and go on industry visits. You may also be exposed to short stints with research establishments and institutes.

WHAT YOU WILL LEARN

YEAR 1
– AC Circuits
– Analogue Electronics
– Applied Mathematics 1 & 2
– Digital Fundamentals
– Electrical Engineering Fundamentals
– Mechanical Engineering Fundamentals
– Programming
– Integrated Real-world Project 1 & 2
– Health & Wellness
– Innovation Made Possible
– Communication Essentials For Engineers
– English Language Express

YEAR 2
– Physics 1 & 2
– Data Structures & Algorithms
– Embedded System
– Object-Oriented Programming
– Thermofluids
– Materials & Manufacturing Technology
– Integrated Real-world Project 3 & 4
– World Issues: A Singapore Perspective

YEAR 3
– Circuit Analysis & Design
– Artificial Intelligence & Machine Learning
– System Modelling & Control
– Integrated Real-world Project 5
– Final-Year Project or Internship (Local/Overseas)
– Project ID: Connecting the Dots

Off-campus Exposure
You may get to work on applied R&D projects in local universities, research institutes or technology centres. Alternatively, you may get internship opportunities in multinational or start-up companies (local or overseas).

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

Off-campus Exposure
Your exposure to engineering will be broadened with visits to and short stints at multinational companies and renowned research institutes such as A*STAR and NUS Research.

If you’re looking for an Engineering diploma that attracts the brightest minds, look no further!

ES graduates topped their cohorts to clinch the Ngee Ann Kongsi Gold Medal or Lee Kuan Yew Award since 2014

ES students received NP as well as external scholarships (e.g. A*STAR Science Award (Poly), DSD Diploma Scholarship, Singtel Engineering Cadet Scholarship), which offer R&D internship opportunities

ES graduates offered admission into prestigious local and overseas universities

They chose ES and are now going places!

SUI HUI PING, CLASS OF 2020
Accepted into the Lee Kong Chian Scholars’ Programme at SMU. She is pursuing a Bachelor in Social Sciences at SMU.

ZENAS LIM, CLASS OF 2015
Graduated with First Class Honours at Imperial College and now pursuing a Masters in Information Science at Cornell University.

REUBEN THOMAS, CLASS OF 2021
Winner of the Ngee Ann Kongsi Gold Medal and the Lee Kuan Yew Award. He will pursue a Computer Science degree in NUS.

KELLIE SIM, CLASS OF 2020
Accepted into the SUTD-Duke-NUS Special Track to pursue an Engineering Degree & Doctor of Medicine Degree.

Moo-Ving Virtually
ES graduates Reuben Thomas and Winston Ho worked with local tech start-up MooVita to develop a virtual autonomous vehicle test platform. The platform enables autonomous vehicle codes and algorithms to be tested safely with significant cost savings!
DIPLOMA IN AEROSPACE ENGINEERING

A strong engineering foundation with a focus on aerospace design and manufacturing of aircraft components
Choice of two specialisation options: Avionics or Mechanical
Curriculum aligned to CAAS Airworthiness Requirements gives you a head start in getting your licence as an Aircraft Maintenance Engineer
Get hands-on experience by working on real-world aerospace projects every semester
Immersive learning experience at our Aerospace Hub

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
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For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with hearing deficiency or severe vision deficiency should not apply for the course. Those with colour vision deficiency may be considered, subject to an in-house test.

CAREER
Armed with an ES diploma, you will enjoy good career prospects in areas such as research & development, product design and development, and manufacturing and services.

FURTHER STUDIES
Both NTU and NUS have accredited ES for a wide range of their degree programmes. In addition, SUTD offers course/module exemptions for ES graduates who have met the criteria in their Compact Courses. With your strong foundation as an ES graduate, you can also apply for a wide range of degree programmes offered by overseas universities.

About 80 per cent of our graduates were offered admission to various local and overseas universities.

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CONTACT US
For the most up-to-date information on NP’s Diploma in Engineering Science, visit www.np.edu.sg/es

ENTRY REQUIREMENTS
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Candidates with hearing deficiency or severe vision deficiency should not apply for the course. Those with colour vision deficiency may be considered, subject to an in-house test.

CONTACT US
For the most up-to-date information on NP’s Diploma in Engineering Science, visit www.np.edu.sg/es
WHAT THE COURSE IS ABOUT
Growing up, were you fascinated with how a heavy machine can fly? Do you ever imagine yourself designing and handling the next generation of aircraft? Then come on board the Diploma in Aerospace Engineering (AEG).

In AEG, you will gain a strong engineering foundation with a focus on major aerospace disciplines. In your first semester, we will strengthen your engineering knowledge with modules such as Engineering Mathematics, Mechanical Engineering Fundamentals and Electrical Engineering Fundamentals to prepare you for the core aerospace modules in the subsequent semesters.

At the end of your first semester, you can pick one of our two specialisation options – Avionics or Mechanical – that will build on your engineering foundation and areas of interest.

There will be opportunities for you to apply your engineering knowledge and design skills through an integrated real-world project throughout your three years at NP.

Then in your final year, put your knowledge to the test with a six-month local or overseas internship with companies such as Airbus Helicopters, Collins Aerospace, Pratt & Whitney, Scoot, ST Engineering and Thales Solutions Asia.

Students who are interested to get their Private Pilot Licence (PPL) can choose to participate in the Singapore Youth Flying Club PPL Course as their internship.

SPECIALISATION OPTIONS
Avionics
You will get to study the principles of flight and the various sophisticated systems on an aircraft, such as navigation, surveillance, communication and electrical systems.

Mechanical
You will learn the fundamentals of engineering system design, aircraft structures and materials, applied thermofluids, as well as aircraft maintenance practices.

WHAT YOU WILL LEARN
YEAR 1
Common Modules
– Engineering Mathematics 1 & 2
– Mechanical Engineering Fundamentals
– Electrical Engineering Fundamentals
– Programming
– Integrated Real-world Project 1 & 2
– Health & Wellness
– Innovation Made Possible
– Communication Essentials For Engineers
– English Language Express

Specialisation Option Modules
Avionics
– AC Circuits
– Analogue Electronics
– Digital Fundamentals

Mechanical
– Thermofluids
– Electrical & Electronics Technology
– Materials & Manufacturing Technology

YEAR 2
Common Modules
– Aerospace Fundamentals
– World Issues: A Singapore Perspective

Specialisation Option Modules
Avionics
– Applied Digital Electronics
– Applied Analogue Electronics
– Communication Systems
– Human Factors & Aviation Legislation
– Integrated Real-world Project 3 & 4 (Avionics)
– Object-oriented Programming
– Materials & Manufacturing Technology
– Principles & Applications of Aircraft Science

Mechanical
– Aircraft Maintenance Practices
– Aircraft Structures & Materials
– Applied Thermofluids
– Engineering System Design
– Integrated Real-world Project 3 & 4 (Mechanical)
– Strength of Materials
– Quality Systems & Analytics

YEAR 3
Common Modules
– Six-month Internship
– Project ID: Connecting the Dots

Specialisation Option Modules
Avionics
– Aircraft Navigation & Surveillance Systems
– Aircraft Electrical & Instrumentation Systems
– Final-Year Project
– Integrated Real-world Project 5 (Avionics)
– Quality Systems & Analytics

Mechanical
– Aircraft Propulsion Systems
– Aircraft Mechanical Systems
– Human Factors & Aviation Legislation
– Integrated Real-world Project 5 (Mechanical)
– System Modeling & Control

^ Interdisciplinary Studies (IS) modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, ready for the future workplace.

* For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
CAREER
Local and international air travel will continue to be an important growth area for Singapore’s economy. With the growth of air-sea transhipment, there will be demand for skilled and versatile aerospace professionals. AEG is recognised by many established aerospace organisations, which gives you an advantage when exploring such careers. You can look forward to being employed in these roles:

– Aircraft Maintenance Engineer Apprentice
– Engineering Service Engineer
– Planning Executive
– Planning Supervisor
– Senior Technician (Engine/Engine Component Repair & Overhaul)
– Senior Technician (Component Repair & Overhaul - Avionics)
– Senior Technician (Component Repair & Overhaul - Mechanical)
– Senior Technician (Mechanical/Avionics)
– Quality Engineer
– Technical Service Engineer
– Workshop Engineer

What’s more, AEG prepares you for modules in the Civil Aviation Authority of Singapore (CAAS) Airworthiness Requirements (SAR 66) examinations so you get a head start in acquiring your licence as an Aircraft Maintenance Engineer.

You can also enrol in various skills-deepening programmes or apply for the SkillsFuture Work-Study Post-Diploma Programme, upon graduation.

FURTHER STUDIES
As an AEG graduate, you will be able to pursue an aerospace-related degree at Singapore Institute of Technology, Singapore University of Social Sciences or overseas universities in Australia, New Zealand, USA and the UK.

Or you can choose to pursue related engineering degrees with advanced standing at prestigious local universities like National University of Singapore, Nanyang Technological University, and Singapore University of Technology and Design.

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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English Language | 1-7
Mathematics (Elementary/Additional) | 1-6
Science (with Physics, Chemistry or Biology component) or Biotechnology or Computing/Computer Studies or Design & Technology or Electronics/Fundamentals of Electronics or Engineering Science or Physical Science | 1-6


For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with hearing deficiency or severe vision deficiency including colour vision deficiency should not apply for the course.

Related Courses
– Automation & Mechatronic Systems
– Common Engineering Programme
– Electrical Engineering
– Electronic & Computer Engineering
– Mechanical Engineering

CONTACT US
For the most up-to-date information on NP’s Diploma in Aerospace Engineering, visit [www.np.edu.sg/aeg](http://www.np.edu.sg/aeg).

My lecturers were very supportive and have helped me become a better learner. The critical thinking skills that I gained help me to solve complex problems. The enriching experience that I had at NP has also inspired me to develop new inventions to benefit the community.

Lercy Chow
Aerospace Electronics* graduate, Class of 2017
An SoE Gold Medallist in 2017, Lercy is currently on the University Engineering Scholarship and pursuing her Bachelor of Engineering in NTU.

*renamed as the Diploma in Aerospace Engineering
WHAT THE COURSE IS ABOUT
Imagine stepping out of your smart home, taking a self-driving vehicle to your favourite restaurant, and getting served by a robotic waitress. The field of automation is steadily growing and finding its way into every home, company and industry. If you want to engineer the next generation of smart machines, the Diploma in Automation & Mechatronic Systems (AMS) is your ideal choice.

AMS prepares students for exciting careers in diverse sectors ranging from precision engineering, aerospace, electronics, energy and chemical, food manufacturing, marine and offshore, and sea transport. You will learn to use emerging skills in robotics and automation, design thinking, Internet of Things, and data analytics to develop high-tech solutions for consumer products and industrial applications.

What’s more, AMS’ emphasis on project-based learning, design thinking and experiential learning will give you an edge in developing applications for industrial robots, autonomous vehicles, modular production systems and smart sensor technology.

In the first two years, you will build a strong foundation in the various disciplines of engineering – electrical, electronics, mechanical and programming. You will also learn practical skills in Computer-Aided Design and the development of control software for smart devices and automated lines.

In your third year, you will learn how to control industrial robots and build an autonomous vehicle. You will also go on a six-month internship with companies such as ST Engineering, PSA Singapore, A*STAR and Collins Aerospace. You will have the opportunity to go for an internship at deep-tech companies such as MooVita to develop autonomous vehicles, or learn more about electric vehicles in Hyundai Singapore.

You will also get to work on an integrated real-world project every semester. These projects will develop your critical thinking, problem-solving and technical skills.

During my internship at PSA Singapore’s Engineering Division, I was part of a team that oversaw the development of automated guided vehicles. I was excited to apply my knowledge at the workplace, and further develop my leadership and communication skills. I became more certain about deepening my knowledge in the field, and eventually applied for the NUS Mechanical Engineering Undergraduate Sponsorship Programme with PSA. My dream is to become a dual-role engineer in the future.

Zhang Dunjie
Automation & Mechatronic Systems graduate, Class of 2017
FURTHER STUDIES
You will be well prepared for further studies in mechanical, electrical or electronic engineering at both local and overseas universities. You may even be granted advanced standing in related engineering courses at:

Singapore
- Nanyang Technological University
- National University of Singapore
- Singapore Institute of Technology-University of Glasgow

Australia
- Monash University
- University of New South Wales

United Kingdom
- University of Manchester
- University of Sheffield

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Related Courses
- Aerospace Engineering
- Common Engineering Programme
- Electrical Engineering
- Electronic & Computer Engineering
- Engineering Science

CONTACT US
For the most up-to-date information on NP’s Diploma in Automation & Mechatronic Systems, visit www.np.edu.sg/ams

WHAT YOU WILL LEARN
YEAR 1
- Electrical Engineering Fundamentals
- Electrical & Electronics Technology
- Engineering Mathematics 1 & 2
- Integrated Real-world Project 1 & 2
- Materials & Manufacturing Technology
- Mechanical Engineering Fundamentals
- Programming
- Thermofluids
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

YEAR 2
- Applied Mechanics
- Computer-Aided Design & Drafting
- Engineering System Design
- Industrial Automation
- Integrated Real-world Project 3 & 4
- Microcontroller & System
- Network Fundamentals
- Quality Systems & Analytics
- Strength of Materials
- World Issues: A Singapore Perspective

YEAR 3
- Industrial Robot System & Application
- Integrated Real-world Project 5
- Sensor & Drive Systems
- System Modelling & Control
- Six-month Internship or Final-Year Project
- Project ID: Connecting the Dots

CAREER
As a designer and engineer of automation systems, you will be well-sought after in jobs that involve the design, development and manufacturing of “intelligent” products and systems. You can look forward to pursuing careers in the following job roles:
- Robot Coordinator
- Application Engineer
- WSH Coordinator
- Assistant Engineer/Associate Engineer in
  - Process Engineering
  - Equipment Engineering
  - Facility Engineering
  - Quality Engineering
  - Product Engineering
  - Production Engineering
  - Quality Assurance/Quality Control
  - Procurement Coordinator/Executive

INDUSTRY 4.0 IN ACTION
Final-year AMS students Mah Jia Yong and Edwin Tan helped to design, build, program and integrate a fully automated robotics assembly line. Smart sensors such as RFID and IO-Link technologies were used for production tracking and preventive smart maintenance. An augmented reality (AR) application was also created to identify components and provide information about the machines.

* Interdisciplinary Studies (IS) modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, ready for the future workplace.

* For selected students only.

* Interdisciplinary Studies (IS) modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, ready for the future workplace.

* For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
WHAT THE COURSE IS ABOUT
Fascinated by how engineering and biology can benefit society? Or are you interested in helping medical professionals do their work better? If you’re passionate about the medical technology (MedTech) field, then the Diploma in Biomedical Engineering (BME) is perfect for you. This fast-growing field is responsible for the design of sophisticated medical equipment such as diagnostic and therapeutic machines, as well as lifesaving devices like the pacemaker and dialysis machine.

The first diploma of its kind in Singapore, BME is jointly developed by Ngee Ann Polytechnic’s School of Engineering and industry partners. Besides learning how to develop medical equipment, BME also gives you a firm grounding in research that could lead to the discovery of faster and more accurate tools for medical treatment.

In your first year, you will acquire a strong foundation in engineering in topics covering programming, electrical, electronic and mechanical engineering.

In your second year, you will study cell and molecular biology alongside medical instrumentation and clinical engineering. You will also be equipped with electronic design and prototyping skills.

In your final year, you will focus on areas such as healthcare informatics, as well as understanding the design and function of various types of medical equipment. You will also learn to design and develop technical projects.

WHAT YOU WILL LEARN

YEAR 1
- AC Circuits
- Analogue Electronics
- Digital Fundamentals
- Electrical Engineering Fundamentals
- Engineering Mathematics 1 & 2
- Mechanical Engineering Fundamentals
- Programming
- Integrated Real-world Project 1 & 2
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

YEAR 2
- Cell & Molecular Biology
- Clinical Engineering
- Embedded System
- Integrated Real-world Project 3 & 4
- Medical Electronics
- Medical Instrumentation
- Physiological Systems
- World Issues: A Singapore Perspective

YEAR 3
- Biomechanics & Biomaterials
- Healthcare Informatics
- Integrated Real-world Project 5
- Internet of Things
- Six-month Internship
- Project ID: Connecting the Dots

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** For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
CAREER
With Singapore fast becoming a global hub for biomedical research and the healthcare industry, you will have bright job prospects in this field. You can look forward to pursuing careers in these job roles:

- Assistant Engineer
- Biomedical Engineer
- Field Service Engineer
- Quality Assurance Engineer
- Research Assistant
- Sales Engineer

As part of the SkillsFuture initiative, you can enrol in various skills-deepening programmes or apply for the SkillsFuture Work-Study Post-Diploma Programme, upon graduation. You may also apply for Workforce Skills Qualifications (WSQ) courses, such as the Specialist Diploma in Workplace Safety & Health.

FURTHER STUDIES
As a BME graduate, you can pursue degree programmes offered by Nanyang Technological University, National University of Singapore, Singapore University of Technology and Design, as well as Singapore Institute of Technology. You can also gain credit exemptions from overseas universities, including the following:

Australia
- University of New South Wales
  • Bachelor of Engineering (Honours)/Master of Engineering (Biomedical Engineering)

- Queensland University of Technology
  • Bachelor of Engineering (Honours) (Medical)

- University of Queensland
  • Bachelor of Engineering (Honours) (Electrical and Biomedical Engineering)

- University of Sydney
  • Bachelor of Engineering (Honours) (Biomedical)

United Kingdom
- University of Sheffield
  • Bachelor of Engineering (Biomedical Engineering)

- Cardiff University
  • Bachelor of Engineering/Master of Engineering (Medical Engineering)

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with severe vision deficiency should not apply for the course. Those with colour vision deficiency may be considered, subject to an in-house test.

Related Courses
- Automation & Mechatronic Systems
- Common Engineering Programme
- Electronic & Computer Engineering
- Mechanical Engineering

CONTACT US
For the most up-to-date information on NPI’s Diploma in Biomedical Engineering, visit [www.np.edu.sg/bme](http://www.np.edu.sg/bme)

N43
DIPLOMA IN
ELECTRICAL ENGINEERING

- Unique broad-based course that combines electrical engineering with energy management and clean energy technologies
- Deepen your knowledge by specialising in either Clean Energy Management or Power Engineering
- Prestigious industry-sponsored scholarships including the Energy-Industry Scholarship
- Recognised by the Energy Market Authority for the application of Electrical Technician Licence
WHAT THE COURSE IS ABOUT
The Diploma in Electrical Engineering (EE) is a unique broad-based course that combines electrical engineering with energy management concepts and clean energy technologies to prepare you for sought-after career opportunities in Singapore’s long term sustainability plan. The broad-based curriculum will enable you to tap on opportunities in a wide range of sectors such as sustainable energy, power, built environment and transport.

In your first year, you will acquire a strong foundation in engineering through modules such as Programming, Electrical Engineering Fundamentals and AC Circuits. In your second year, you will deepen your skills and knowledge in designing and analysing energy and electrical systems. At the same time, you will master practical skills covering project management, micro-controllers and programmable logic controllers (PLCs). In your final year, you can choose to specialise in either Power Engineering or Clean Energy Management.

Through a series of integrated real-world projects in the curriculum, you will experience fun and authentic learning to develop in-demand skills like computer-aided design, deploying IoT devices, creating user interfaces and data analytics. You will also get to put your skills and knowledge into practice with a six-month enhanced internship with industry leaders such as SP Group, ST Engineering, Singtel and Sembcorp. Or you can work on a design or industry project in diverse fields such as robotics and healthcare engineering applications.

SPECIALISATION OPTIONS
Clean Energy Management
This specialisation prepares you for the sustainable energy sector with a strong focus on energy management and clean energy technologies. Key areas covered include solar photovoltaic systems and energy audit process and measurement techniques.

Power Engineering
This specialisation prepares you for exciting careers in a wide range of sectors such as sustainable energy, power, built environment and transport. You will also get a head start to practise licensed electrical works, and discover more about electrical system design and smart electricity systems.

WHAT YOU WILL LEARN
YEAR 1
- Engineering Mathematics 1 & 2
- Mechanical Engineering Fundamentals
- Electrical Engineering Fundamentals
- Programming
- Integrated Real-world Project 1 & 2
- AC Circuits
- Analogue Electronics
- Digital Fundamentals
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

YEAR 2
- Electrical Machines
- Electric Circuit Analysis
- Microcontroller & System
- PLC & Automation
- Integrated Real-world Project 3 & 4
- Power Electronics
- Electrical Installation Design
- Energy Management Systems
- Project Management
- World Issues: A Singapore Perspective

YEAR 3
- Integrated Real-world Project 5
- 6-month Internship
- Project Design & Development
- Project ID: Connecting the Dots

Specialisation Options
Power Engineering
- Systems Modelling & Control
- Smart Electricity System
- Power Systems Design & Operation

Clean Energy Management
- Energy Studies & Audit
- Clean Energy Technologies
- Design & Operation of Distributed Power Systems

* Interdisciplinary Studies (IS) modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. IS aims to develop students to be agile and self-directed learners, ready for the future workplace.

For selected students only.

A HELPING HAND
EE graduates Izzat Hazim bin Mustafa, Cherie Ong and Elijah Siow won the Lee Hsien Loong – Interactive Digital Media Smart Nation Award 2020 for developing ReHand, an exoskeleton that can support both passive and active limb rehabilitation of stroke patients. This technology allows for better physiotherapy support and also gives the patient the independence to take charge of his treatment.
CAREER
With Singapore’s continual investments in the cleantech sector and the push for reduction in carbon emissions, career opportunities in the power and sustainable energy sectors are growing. You can look forward to pursuing careers in these job roles:

– Assistant Engineer in
  • Power
  • Project Development
  • Engineering Construction Supervision
  • Commissioning
  • Operation and Maintenance
  • Production
  • Quality Assurance/Quality Control
– Solar PV Project Development Supervisor
– Technical Officer (Power Distribution Systems)

FURTHER STUDIES
This diploma is recognised by leading universities both locally and abroad. You may be granted advanced standing or module exemptions when applying for related degree programmes at:

Singapore
– National University of Singapore
– Nanyang Technological University
– Singapore Institute of Technology
– Singapore University of Technology and Design

Australia
– University of New South Wales
– Queensland University of Technology

United Kingdom
– University of Manchester
– University of Southampton
– University of Sheffield

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
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You must also fulfill the aggregate computation requirements for the ELR2B2-C Aggregate Type listed at www.np.edu.sg/admissions/Documents/ELR2B2.pdf

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with hearing deficiency or severe vision deficiency should not apply for the course. Those with colour vision deficiency may be considered, subject to an in-house test.

Related Courses
– Biomedical Engineering
– Common Engineering Programme
– Electronic & Computer Engineering
– Engineering Science

CONTACT US
For the most up-to-date information on NP’s Diploma in Electrical Engineering, visit www.np.edu.sg/ee

N44
DIPLOMA IN
ELECTRONIC & COMPUTER ENGINEERING

• One of the most established electronic and computer engineering diplomas in Singapore
• Strong links to the industry as well as local and overseas universities
• Choose to specialise in either Computer Networks or Robotics & Communication
• Six-month internships with leading organisations such as Creative Technology, ST Engineering and Xilinx

SCHOOL OF ENGINEERING 29
WHAT THE COURSE IS ABOUT
Electronics and computers are a large part of our daily lives—from the smart phones and laptops that you use to the vehicles that you travel in. You can play a part in shaping the way people live, work and play with the Diploma in Electronic & Computer Engineering (ECE).

ECE gives you a strong foundation in electronic hardware design, software programming skills and computer networks. With our industry-relevant curriculum, you will be well-placed to meet the needs of the industry when you graduate.

In your first year, you will learn the fundamental aspects of engineering with modules such as Computer Programming, Analogue Electronics and Digital Fundamentals. In your second year, you can choose to deepen your expertise in a particular field by pursuing one of our two specialisation options, Computer Networks or Robotics & Communication.

Then, in your final year, put your knowledge to the test with a six-month internship with industry leaders such as Creative Technology, ST Engineering and Xilinx.

What’s more, you may even get the chance to work on industry-sponsored projects at our technology centres. Plus, you will go on local or overseas study trips that will widen your exposure to the exciting world of engineering.

SPECIALISATION OPTIONS
Computer Networks
Learn how to design, implement, monitor, secure and maintain enterprise network infrastructure and the deployment servers in supporting these networks. You will be prepared for the global professional CCNA certification.

Robotics & Communication
Hone your knowledge and skills in electronic circuit design and learn how devices communicate. Learn how to create smart products and robotic systems with intelligent devices.

WHAT YOU WILL LEARN
YEAR 1
- AC Circuits
- Analogue Electronics
- Digital Fundamentals
- Electrical Engineering Fundamentals
- Engineering Mathematics 1 & 2
- Mechanical Engineering Fundamentals
- Programming
- Integrated Real-world Project 1 & 2
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

YEAR 2
Common Modules
- Applied Digital Electronics
- Integrated Real-world Project 3 & 4
- Microcontroller & Interfacing
- Network Fundamentals
- Object Oriented Programming
- Quality Systems & Analytics
- World Issues: A Singapore Perspective

Specialisation Option Modules
Computer Networks
- Servers & Cloud Fundamentals
- Routing & Switching

Robotics & Communication
- Applied Analogue Electronics
- Communication Systems

YEAR 3
Common Modules
- Internet of Things
- Integrated Real-world Project 5
- Mobile Application Programming
- Six-month Internship or Six-month Final-Year Project
- Project ID: Connecting the Dots

Specialisation Option Modules
Computer Networks
- Scaling & Connecting Networks

Robotics & Communication
- Embedded Robotics

FURTHER STUDIES
This diploma is recognised by leading universities both locally and abroad. You may be granted advanced standing or module exemptions when applying for related degree programmes at the following universities:

Singapore
- National University of Singapore
- Nanyang Technological University
- Singapore Institute of Technology
- Singapore University of Technology and Design

Australia
- University of New South Wales
- Queensland University of Technology

United Kingdom
- University of Edinburgh
- University of Manchester
- University of Southampton
- University of Sheffield

CAREER
Electronics is one of the world’s largest industries—that means you will enjoy many diverse and exciting career opportunities, such as:

- Assistant Equipment Engineer
- Assistant Facility Engineer
- Assistant Integration Engineer
- Assistant Process Engineer
- Assistant Product Engineer
- Assistant Quality Engineer
- Embedded Systems Engineer
- Infrastructure Engineer

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

Subject       ‘O’ level grade

| English Language | 1-7 |
| Mathematics (Elementary/Additional) | 1-6 |
| Science        | 1-6 |
| (with Physics, Chemistry or Biology component) |  |
| Biotechnology  |  |
| or Computing/Computer Studies  |  |
| or Design & Technology |  |
| or Electronics/Fundamentals of Electronics |  |
| or Engineering Science |  |
| or Physical Science |  |

You must also fulfil the aggregate computation requirements for the ELR2B2-C Aggregate Type listed at www.np.edu.sg/admissions/Documents/ELR2B2.pdf

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with severe vision deficiency should not apply for the course. Those with colour vision deficiency may be considered, subject to an in-house test.

Related Courses
- Biomedical Engineering
- Common Engineering Programme
- Electrical Engineering
- Engineering Science

CONTACT US
For the most up-to-date information on NP’s Diploma in Electronic & Computer Engineering, visit www.np.edu.sg/ece

Watch this video to find out what a day in the life of an ECE student is like!
WHAT THE COURSE IS ABOUT
Fascinated by ships and how they work? Set sail on your maritime journey when you join our Diploma in Marine & Offshore Technology (MOT). We will train you in naval architecture and offshore technology, which are among the most sought-after specialist skills in Singapore’s maritime industry.

With MOT, you will learn to design and build your own ship models, and test them in Singapore’s only towing tank located in our campus. Our strong emphasis on integrated real-world projects will give you an edge in creating innovative solutions for using clean energy, developing new materials and processes, as well as designing and building marine vessels and offshore structures.

Thanks to MOT’s strong ties with key industry players, such as the Association of Singapore Marine Industries, Keppel Offshore & Marine and SembCorp Marine, you will get to go on frequent study trips to gain industry exposure and receive in-depth training that will give you a head start in your career!

In the first two years, you will be grounded with strong fundamentals of engineering, together with naval architecture, marine engineering and offshore design technology. In your final year, you will intern at a host company in the marine and offshore industry for six months.

WHAT YOU WILL LEARN
YEAR 1
- Electrical Engineering Fundamentals
- Electrical & Electronics Technology
- Engineering Mathematics 1 & 2
- Integrated Real-world Project 1 & 2
- Materials & Manufacturing Technology
- Mechanical Engineering Fundamentals
- Programming
- Thermofluids
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

YEAR 2
- Naval Architecture 1
- Marine CAD
- Naval Architecture 2
- Marine Design Drafting
- Marine Auxiliary Systems
- Marine Production Technology
- Marine & Offshore Technology
- Strength of Materials
- Integrated Real-world Project 3 & 4
- World Issues: A Singapore Perspective

YEAR 3
- Integrated Real-world Project 5
- Marine Propulsion Systems
- Marine & Offshore Design
- Marine Design Applications
- Offshore Engineering
- Six-month Internship
- Project ID: Connecting the Dots

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* For selected students only.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.
CAREER
Pursue a career in the design, marketing, commerce, survey, production, safety, human resource, and research and development areas of the marine and offshore industries. You can look forward to pursuing careers in these job roles:
- Assistant Design Engineer
- Assistant Production Engineer
- Assistant Quality Assurance
- Quality Control Engineer
- WSH Coordinator

FURTHER STUDIES
Accredited by the Institute of Marine Engineering Science & Technology (UK), this diploma gives you the opportunity to improve your prospects by pursuing a related degree programme at a local or an overseas university. You can also enjoy advanced standing at these universities:

Singapore
- Nanyang Technological University
- National University of Singapore

Australia
- University of Sydney
- University of Tasmania

United Kingdom
- Newcastle University
- University of Glasgow
- University of Strathclyde

Together with Newcastle University, the Singapore Institute of Technology offers you the chance to pursue a prestigious degree in Marine Engineering, Naval Architecture or Offshore Engineering. This subsidised degree programme can be completed in two years. You can pursue a Bachelor of Engineering with Honours in Marine Engineering, Naval Architecture or Offshore Engineering.

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
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For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with hearing deficiency or severe vision deficiency should not apply for the course.

Related Courses
- Aerospace Engineering
- Automation & Mechatronic Systems
- Common Engineering Programme
- Engineering Science

CONTACT US
For the most up-to-date information on NP’s Diploma in Marine & Offshore Technology, visit www.np.edu.sg/mot

- A broad-based curriculum that prepares you for the future economy in precision engineering and manufacturing; facilities and infrastructure; environment and energy; and transportation
- Work on unique integrated real-world projects, with a strong focus on computer-aided design and service-learning
- Overseas or local internship with organisations such as ST Engineering’s Land Systems and A*STAR
- Get advanced standing when you further your studies at local or overseas universities
WHAT THE COURSE IS ABOUT

Mechanical engineering touches virtually every aspect of modern life. Imagine an autonomous car powered by renewable energy and a robotic exoskeleton that can help seniors improve their range of motion. With the Diploma in Mechanical Engineering (ME), you can bring your ideas to life.

In your first year, you will learn the fundamentals of mechanical engineering with a focus on materials and design skills. It covers modules such as Thermofluids, Materials & Manufacturing Technology, and Mechanical Engineering Fundamentals. In your second year, you will deepen your understanding with modules such as Engineering System Design and Strength of Materials.

In your final year, you will get to work on a final-year project that involves the design and development of a new product prototype with real-world application. Or you can do an internship with established organisations.

A highly versatile course, ME provides a broad-based education that enables you to excel in diverse career choices. Its strong emphasis on applied design thinking skills gives you an edge in creating innovative clean energy solutions, developing new materials and processes, as well as designing and manufacturing products that range from consumer products to clean energy solutions, developing new materials and processes, as well as designing and manufacturing products that range from consumer products to medical devices.

In your first year, you will learn the fundamentals of mechanical engineering with a focus on materials and design skills. It covers modules such as Thermofluids, Materials & Manufacturing Technology, and Mechanical Engineering Fundamentals. In your second year, you will deepen your understanding with modules such as Engineering System Design and Strength of Materials.

In your final year, you will get to work on a final-year project that involves the design and development of a new product prototype with real-world application. Or you can do an internship with established organisations.

WHAT YOU WILL LEARN

YEAR 1
- Engineering Mathematics 1 & 2
- Mechanical Engineering Fundamentals
- Electrical Engineering Fundamentals
- Programming
- Integrated Real-world Project 1 & 2
- Thermofluids
- Electrical & Electronics Technology
- Materials & Manufacturing Technology
- Health & Wellness
- Innovation Made Possible
- Communication Essentials For Engineers
- English Language Express

YEAR 2
- Advanced Materials
- Industrial Automation
- Applied Thermofluids
- Integrated Real-world Project 3 & 4
- Project Management
- Advanced Manufacturing Technology
- Engineering Systems Design
- Quality Systems and Analytics
- Strength of Materials
- World Issues: A Singapore Perspective

YEAR 3
- Applied Mechanics
- System Modelling & Control
- Integrated Real-world Project 5
- Mechanics of Machines & Materials
- 6-Month Internship or Final-Year Project
- Project I.D: Connecting The Dots

FURTHER STUDIES

You will be well prepared for further studies at both local and overseas universities. You can enrol in SkillsFuture Work-Study Post-Diploma programmes, such as the Specialist Diploma in Aircraft Maintenance and Engineering and the Specialist Diploma in Marine Production.

CAREER

With your solid foundation in engineering giving you sought-after skills, you will enjoy excellent job prospects in diverse industries. You can look forward to pursuing careers in these job roles:
- Automation Assistant Engineer
- Automotive Engineer
- Facility Engineer
- Manufacturing Engineer
- Mechanical Engineer
- Precision Engineer
- Product Engineer
- Project Engineer
- Process Engineer
- Procurement Assistant
- Quality Assurance Engineer
- Sales Engineer

ME is a broad-based course and caters to various SkillsFuture sectors such as Aerospace, Precision Engineering and Offshore & Marine Engineering.

Further information can be found on the programme page or by visiting the website for latest updates.
ENTRY REQUIREMENTS

Aggregate Type ELR2B2-C
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Candidates with hearing deficiency or severe vision deficiency should not apply for the course.

Related Courses
- Aerospace Engineering
- Automation & Mechatronic Systems
- Common Engineering Programme
- Engineering Science
- Marine & Offshore Technology

CONTACT US
For the most up-to-date information on NP’s Diploma in Mechanical Engineering, visit www.np.edu.sg/me

OUR GRADUATES WITH THAT SOMETHING

XTRA

THE SOCIAL ENABLER
Sui Hui Ping
Engineering Science graduate, Class of 2020
Lee Kuan Yew Award winner, 2015. Currently pursuing a Bachelor in Social Sciences at the Singapore Management University under the prestigious Lee Kong Chian Scholars’ Programme.

THE YOUNG RESEARCHER
Zenas Lim
Engineering Science graduate, Class of 2015

THE AI EXPERT
Duan Jiafei
Engineering Science graduate, Class of 2016
Graduated from NTU’s Bachelor of Engineering with Highest Distinction. Recipient of the prestigious A*STAR National Science Scholarship and is an AI Research Engineer at A*STAR.

ENTRY REQUIREMENTS
Aggregate Type ELR2B2-C
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</table>

You must also fulfill the aggregate computation requirements for the ELR2B2-C Aggregate Type listed at www.np.edu.sg/admissions/Documents/ELR2B2.pdf

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with hearing deficiency or severe vision deficiency should not apply for the course.

Related Courses
- Aerospace Engineering
- Automation & Mechatronic Systems
- Common Engineering Programme
- Engineering Science
- Marine & Offshore Technology

CONTACT US
For the most up-to-date information on NP’s Diploma in Mechanical Engineering, visit www.np.edu.sg/me
THE BIOMEDICAL ENGINEER
Tey Ming Chuan
Biomedical Engineering graduate, Class of 2018
Lee Kuan Yew Award and Ngee Ann Polytechnic Outstanding Achievement Award winner, 2018. Currently pursuing his degree in Biomedical Engineering at the National University of Singapore under the Engineering Scholars Programme.

THE ENGINEER & DOCTOR
Kellie Sim
Engineering Science graduate, Class of 2020
Kellie was accepted into the SUTD-Duke-NUS Special Track for an Engineering Degree & Doctor of Medicine Degree. She also received the SUTD Global Distinguished Scholarship.

THE TECH ENTREPRENEUR
Jasper Yap
Aerospace Technology* graduate, Class of 2017
Co-founder of Yosei Labs, a web design agency which has since been acquired by EeZee, a Business-to-Business procurement company with over 700 suppliers on its platform. Jasper was named one of Singapore’s top entrepreneurs in the Forbes 30 Under 30 Asia 2020 List and EDGE 35 Under 35 in 2020.

THE DATA SCIENTIST
Pavatharani Senthil Kumar
Aerospace Technology* graduate, Class of 2016
Graduated from NTU’s Renaissance Engineering Programme with a Bachelor of Aerospace Engineering and Master of Science in Technology Management. She is currently working as an associate data scientist at Visa.

*now renamed as Diploma in Aerospace Engineering