Aerospace
Work on challenging projects such as designing a remote control airship with Global Positioning System capabilities and smart electronic systems.

Six-month internship with leading aerospace companies.

Overseas exchange programmes with USA’s Embry-Riddle Aeronautical University.

Acquire the basics of flying skills through training with actual flight instruments.

A curriculum aligned to the Civil Aviation Authority of Singapore (CAAS) Airworthiness Requirements (SAR 66), which regulates aircraft maintenance licensing requirements.

A business management minor that equips you with management and entrepreneurial skills, and widens your career path.
ABOUT THE DIPLOMA

Amazed by how an airplane pinpoints its exact position and accurately predicts its arrival time, all while cruising at 30,000 feet above ground? If you are, then the Diploma in Aerospace Electronics (AE) is for you! You will build your expertise in aircraft electronics (avionics), flight control systems, and aircraft navigation and communications systems.

Put your knowledge and skills to practice during a six-month internship with aerospace and electronics industry leaders, such as ST Aerospace, Eurocopter, Thales Aerospace, Rockwell Collins, the Republic of Singapore Air Force and SIA Engineering.

Participate in overseas exchanges, internships, and collaborative projects and research with the USA’s Embry-Riddle Aeronautical University.

To give you an added edge, you can opt for our new Business Management Minor. Delivered by Ngee Ann’s School of Business & Accountancy – the most established polytechnic business school – the business modules will equip you with knowledge and skills in entrepreneurship, management and marketing. A strong engineering foundation in aerospace electronics and competency in business knowledge will stand you in good stead in your career and degree pursuits. Armed with skills that are well sought-after, you can be sure of a wide range of career options and exciting opportunities ahead!
WHAT YOU WILL LEARN
Under our broad-based curriculum which aims to train you to be a competent and well-rounded professional, you will take modules in the following different areas:

Engineering
Be exposed to the breadth of engineering fields such as electrical, mechanical, computer programming and mathematics.

Aerospace
Learn about primary aircraft systems and the principles of flight. Study the various aircraft electronic systems such as sensors, electrical power, flight instrumentation, navigation and communication.

Electronics
Be equipped with the necessary practical skills for electronic circuit construction, troubleshooting, measurement and analysis, and gain an in-depth understanding of the design and application of electronics in daily life.

Minor in Business Management (NEW)
Gain business knowledge and skills by pursuing this Minor. The modules covered include Starting & Managing an Enterprise, Marketing Fundamentals and Effective People Management.

Project or Internship
Go on an internship that allows you to practise your skills and knowledge in the real world, or undertake a project that enables you to apply the know-how you have gained.

Interdisciplinary Studies
Going beyond your core discipline, these modules aim to empower you with multidisciplinary skills, and nurture an innovative and entrepreneurial spirit to meet the challenges of the new economy. Take modules that fall under categories such as Communication, Innovation & Enterprise, Culture & Community, Arts and Humanities, Business, and Design.

For more information about course modules, log on to www.np.edu.sg/soe
WHAT YOU CAN BECOME
With over 100 aerospace companies that serve global and regional markets based in Singapore, your job prospects are bright. You can work in the aerospace and electronics industries in areas such as engineering and maintenance support, research and development and sales and marketing, to name a few.

Our curriculum is aligned with SAR 66 requirements which gives you a head-start should you decide to become a licensed aircraft maintenance engineer. At the same time, by acquiring the basics of flying skills using our Cessna flight simulator, you can even consider a career in flying.

FURTHER STUDIES
You can pursue an electrical or electronics degree at local universities or an avionics degree at Singapore Institute of Management University or at overseas universities such as Embry Riddle Aeronautical University (USA), University of Bristol (UK), University of Bath (UK), and Queensland University of Technology (Australia).

Besides engineering degrees, you are also eligible to apply for non-engineering degree courses. With our Business Management Minor, you will certainly have a head-start in applying for business-related degree courses.

ENTRY REQUIREMENTS
To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results and fulfil the aggregate computation requirements.

<table>
<thead>
<tr>
<th>Subject</th>
<th>‘O’ Level Grade</th>
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<tr>
<td>English Language*</td>
<td>1- 7</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1- 6</td>
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<tr>
<td>(Elementary/Additional)</td>
<td></td>
</tr>
<tr>
<td>Science (with Physics, Chemistry or Biology component)</td>
<td>1- 6</td>
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<tr>
<td>or Computer Studies</td>
<td></td>
</tr>
<tr>
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* Candidates with English as a second language must have attained a minimum grade of 6.

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

CONTACT US
For more information, contact Mr Yeo Chor Lee at 6460 6175 (tel), 6467 1730 (fax) or ycl2@np.edu.sg (email).
diploma in aerospace technology\textsuperscript{(N65)}

A strong focus on design and manufacturing of aircraft and its components

Six-month internship with leading aerospace companies including SIA Engineering, Rolls-Royce (UK) and Eurocopter

Progression to aerospace professions such as Licensed Aircraft Maintenance Engineers and Aerospace Technologists

A curriculum aligned to the Civil Aviation Authority of Singapore (CAAS) Airworthiness Requirements (SAR 66) aircraft maintenance licensing requirements

A business management minor that equips you with management and entrepreneurial skills, and widens your career path

NEW!
Would you like to certify an Airbus or Boeing 777 for flight? Do you see yourself taking charge of maintaining a modern fleet like the Airbus A380 or F15 Eagle? If you do, sign up for the Diploma in Aerospace Technology (AT)!

AT covers all the different aspects of aerospace engineering including aerodynamics, propulsion, aircraft structures and systems, and aircraft stability and control. Learn all about aircraft design, airframe structure, engine systems, and the production of aircraft systems and components. You will also be prepared for modules in SAR 66 examinations so that you can get your licence as an Aircraft Maintenance Engineer much sooner.

Perfect your skills and knowledge in our state-of-the-art facilities, such as the subsonic wind tunnel and RSAF Super Skyhawk jet fighter. You will also receive practice-oriented training through our six-month local or overseas internship programme with over 30 leading aerospace companies including Rolls-Royce Research Centre in Derby (UK), CAAS, SIA Engineering Company (SIAEC), Eurocopter and Hamilton Sundstrand.

Have a passion for flying? Then pursue a basic flying course through our close collaboration with the Singapore Youth Flying Club and qualify for a flying career with a Private Pilot Licence (PPL).

To give you an added edge, you can opt for our new Business Management Minor. Delivered by Ngee Ann’s School of Business & Accountancy - the most established polytechnic business school - the business modules will equip you with knowledge and skills in entrepreneurship, management and marketing. A strong engineering foundation in aerospace technology and competency in business knowledge will stand you in good stead in your career and degree pursuits. Armed with skills that are well sought-after, you can be sure of a wide range of career options and exciting opportunities ahead!

So get set to take off with the Diploma in Aerospace Technology!
WHAT YOU WILL LEARN
Under our broad-based curriculum which aims to train you to be a competent and well-rounded professional, you will take modules in the following different areas:

Engineering
Be exposed to the breadth of engineering fields such as electrical, mechanical, computer programming and mathematics.

Aerospace
Learn about primary aircraft systems, principles of flight, airworthiness legislation and human factors. Study the various aircraft systems such as airframes and structures, materials, propulsion system, avionics systems, aircraft stability and control. Understand the design process in aircraft components design and process development.

Mechanical
Pick up knowledge and skills in areas such as mechanics, mechanical engineering design, strength of materials, computer-aided design and manufacturing technology.

Minor in Business Management
Gain business knowledge and skills by pursuing this Minor. The modules covered include Starting & Managing an Enterprise, Marketing Fundamentals and Effective People Management.

Project or Internship
Go on an internship that allows you to practise your skills and knowledge in the real world, or undertake a project that enables you to apply the know-how you have gained.

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For more information about the course modules, log on to www.np.edu.sg/soe
WHAT YOU CAN BECOME
The growth of the global aerospace industry, the development of new airports and the opening of Singapore’s Seletar Aerospace Park will create a strong demand for skilled professionals. Bright career prospects at over 100 aerospace companies await you as a Licensed Maintenance Engineer or Aerospace Technologist.

Your diploma also enjoys recognition from many established aerospace organisations. For example, if you are interested in a career in aircraft maintenance, repair and overhaul (MRO), you will be placed on an accelerated training programme to become a licensed aircraft engineer.

FURTHER STUDIES
AT is well recognised by both local and overseas universities, which grant advanced standing for their relevant degree programs. Here are some examples:

- Nanyang Technological University
  - Bachelor of Engineering in Aerospace Engineering, Mechanical Engineering or Materials Engineering
- National University of Singapore
  - Bachelor of Engineering in Mechanical Engineering, Electrical Engineering or Computer Engineering
- University of Manchester, UK
  - Bachelor of Engineering in Aerospace and Aeronautical Engineering
- University of Sheffield, UK
  - Bachelor of Engineering in Aerospace and Aeronautical Engineering
- University of New South Wales, Australia
  - Bachelor of Engineering in Aerospace Engineering
- University of Queensland, Australia
  - Bachelor of Engineering in Aerospace Engineering

Besides engineering degrees, you are also eligible to apply for non-engineering degree courses. With our Business Management Minor, you will certainly have a head-start in applying for business-related degree courses.

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<td>1-6</td>
</tr>
</tbody>
</table>

The aggregate computation for selection is based on grades obtained for English, Mathematics, Science or Design & Technology or Food & Nutrition (Grade 1-9) or a relevant OSIE/Applied Subject and two other subjects.

* Candidates with English as a second language must have attained a minimum grade of 6.

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

CONTACT US
For more information, contact Mr Lee Yong Him at 6460 6322 (tel), 6467 7384 (fax) or lyh@np.edu.sg (email).