SP ENGINEERING

U+SP  Think bigger with SP

Aeronautical Engineering
Aerospace Electronics
Common Engineering Programme
Computer Engineering
Electrical & Electronic Engineering
Engineering with Business
Mechanical Engineering
Mechatronics & Robotics
Everything around us is an engineering feat. Smartphones, laptops and transport networks are masterpieces of engineers.

Join us and play a role in society that has never been more important than it is today!

At SP Engineering, you will harness your curious mind and translate ideas into creative solutions to better lives and shape the world around you: be it futuristic energy sources, robots with advanced intelligence, cutting-edge healthcare equipment or even complex aeronautical technology.

You will be imbued with a combination of creativity, leadership and communication skills through the internationally recognised teaching methods in SP. You can seek viable solutions to the latest engineering challenges when you go on overseas or local attachments and internships in notable engineering firms and universities.

When you graduate and join our more than 80,000 strong engineering alumni, you will know that you are at the start of a fulfilling career.

Enhanced education experience @ NUS and SUTD for Engineering students

SP has partnered the National University of Singapore (NUS) and Singapore University of Technology and Design (SUTD) to provide SP students from the School of Electrical & Electronic Engineering (EEE) with early exposure to university-level engineering modules. Students take these modules as SP electives and experience university campus life during their final polytechnic semester. This will count towards meeting their graduation requirements in SP. In addition, credits earned will be recognised by the relevant university when they choose to pursue a degree with them. SP students under these programmes can potentially reduce the time taken to complete relevant degrees offered by NUS and SUTD, hence giving them a head-start on employment and career opportunities.

Are you interested to develop medical devices and equipment such as artificial hearts or prosthetics that are used by doctors or medical professionals? You might want to consider the NEW Biomedical Engineering specialisation offered under the Diploma in Mechanical Engineering.

(Note: The Diploma in Biomedical Engineering has been merged into the Diploma in Mechanical Engineering)

To find out more, turn to Pg 30-33

Do you want to be amongst the first to pick up 5G-related skills and knowledge at our 5G Garage? How about receiving training to become the next generation rail engineer with our latest Rail System Simulator?

If your answer is Yes, the Diploma in Electrical & Electronic Engineering will offer these opportunities and more through our 6 specialisations.

Turn to Pg 22 – 25 to find out more.

Enhanced education experience @ NUS and SUTD for Engineering students

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Turn to Pg 22 – 25 to find out more.
With the exception of Diploma in Engineering with Business students, you may apply for course transfer within your respective school at the end of Year 1, subject to availability of places. Please consult your lecturers for more information.

ENGINEERING ACADEMY PROGRAMME
Looking for a challenge? Excited about technology? Like to exercise your persuasive powers and turn dreams into reality?

Then the Engineering Academy is for you! It is available to a selected group of engineering students from the School of Mechanical & Aeronautical Engineering (MAE) and the School of Electrical & Electronic Engineering (EEE).

At the Engineering Academy, you will be challenged to be engineering innovators where you learn to create workable solutions to solve real world problems. You will learn how to figure out the right questions to ask, take charge of your own learning and work through uncertainty.

You will collaborate with peers from other engineering diplomas, learn about Design and Business, prototype quickly and have opportunities to work closely with industry and university partners.

Check out the Engineering Academy at www.sp.edu.sg/ea.

**COURSE CONTENTS**

**ELECTIVES**
The SP elective framework offers students options to pursue their passion and/or meet different career needs, and is an integral part of the holistic education we seek to provide to our students.

The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today’s volatile and changing societal as well as occupational landscape.

Scan this QR code to see list of electives offered:

**INTERNSHIP PROGRAMME / INTERNSHIP EQUIVALENT (IN-CAMPUS INDUSTRY PROJECT)**
A practical-oriented course where students will spend one semester in the final year dedicated to an industry project or local / overseas internship. Refer to the individual course modules for more information.

**SP ENGINEERING SCHOLARSHIP**
As a SP Engineering Scholar, you will be selected for research and development attachments as well as local or overseas engineering conferences, so as to keep abreast of the latest developments in your related field of study.

**SP OUTSTANDING TALENT (SPOT) PROGRAMME**
SPOT is a talent development and enrichment programme designed to nurture academically capable SP students into well-rounded individuals who are humanitarians, communicators and leaders.

**SP ENGINEERING ACADEMY PROGRAMME**
Looking for a challenge? Excited about technology? Like to exercise your persuasive powers and turn dreams into reality?

Then the Engineering Academy is for you! It is available to a selected group of engineering students from the School of Mechanical & Aeronautical Engineering (MAE) and the School of Electrical & Electronic Engineering (EEE).

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You will collaborate with peers from other engineering diplomas, learn about Design and Business, prototype quickly and have opportunities to work closely with industry and university partners.

Check out the Engineering Academy at www.sp.edu.sg/ea.

**With the exception of Diploma in Engineering with Business students, you may apply for course transfer within your respective school at the end of Year 1, subject to availability of places. Please consult your lecturers for more information.**
DIPLOMA IN
AERONAUTICAL ENGINEERING
(DARE – S88)

SP is the first to launch the Diploma in Aeronautical Engineering (DARE) course in Singapore in 2002. Since then, the DARE course has gone on to become one of the most sought after Engineering diplomas.

The course provides a solid foundation in Mechanical Engineering for subsequent specialisation in aircraft related modules. Our premier status in education has been forged through sturdy bonds with prestigious aerospace organisations; these include, but are not limited to, Singapore Technologies Engineering Aerospace, the Republic of Singapore Air Force, Singapore Airlines Engineering Company, Pratt & Whitney and Bombardier Aerospace Services Singapore.

You will get to learn in a 4,660 square metres state-of-the-art Aerohub that simulates a real working environment. Training facilities includes four aircraft and two full-motion simulators, one of which is developed by us. Teaching and Learning is based on the proven CDIO (Conceive-Design-Implement-Operate) framework and Design Thinking methodology.

As an official ST Engineering Aerospace CAAS Approved Maintenance Training Organisation (SAR-147), this course will prepare you well to work in the aerospace industry as well as to further your studies in local and overseas universities. You are also able to gain advanced standing in local or overseas universities.

For those who aspire to be an aircraft pilot or CAAS certified drone pilot, there are opportunities to take electives or extra courses to pursue your passion.

This course offers:

- State-of-the-art aircraft training facilities at the Aerohub with four aircraft (Hawker 125-700A, King Air B90, A4SU Super Skyhawk and Bell 412HP Helicopter) and full motion flight simulators to provide authentic aircraft training experience.
- A curriculum that is aligned to the ‘Singapore Airworthiness Requirements Part 66’ (SAR-66) specified by the Civil Aviation Authority of Singapore (CAAS) to prepare you for a career as a Licensed Aircraft Maintenance Engineer upon graduation.
- Opportunity to pursue a Private Pilot License (PPL) at the Singapore Youth Flying Club (SYFC).
- Accredited by skills framework for Air Transport and Aerospace sector.

- Electives in the areas of
  - Advanced Aerospace Design and Manufacturing
  - Advanced Aircraft Maintenance Practices and Aerospace Composite Repair
  - Fleet Technical Management
  - Aviation Management
  - Mapped to Aerospace Engineering and Air Transport Skills framework
  - An exciting 2-week overseas exchange programme (Learning Express) where you will use your skills and knowledge to improve lives in the real world.
  - Opportunities to join the premium engineering academy programme and take part in local and overseas UAV competitions such as the Singapore Amazing Flying Machine Competition (SAFMC).

ENTRY REQUIREMENTS

Range of Net 2020 JAE ELR2B2: 4 to 14

AGGREGATE TYPE: ELR2B2-C

SUBJECT GRADE

<table>
<thead>
<tr>
<th>Subject</th>
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</tr>
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<tr>
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- Biotechnology
- Chemistry
- Computing / Computer Studies
- Design & Technology
- Electronics / Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

It should be noted that applicants particularly those who wish to pursue a career as a Licensed Aircraft Engineer (LAE), who have severe colour vision deficiency, uncorrected epicondy and hearing deficiency may encounter difficulties meeting the course requirements and expectations. Interested applicants with mild deficiencies in these areas are advised to contact Singapore Polytechnic for consultation.
FURTHER STUDIES
You can gain advanced standing of up to two years in mechanical engineering degree courses at local and overseas universities, such as the:

- Nanyang Technological University
- National University of Singapore
- Singapore University of Technology & Design
- Singapore Institute of Technology
- (University of Glasgow and Newcastle University)
- Singapore University of Social Sciences
- Imperial College London
- Embry-Riddle Aeronautical University, USA
- University of New South Wales
- RMIT University

CAREER OPTIONS
- Aeronautical Engineering Technologist
- Assistant Aeronautical Design and System Engineer
- Assistant Aerospace Sales & Marketing Engineer
- Assistant Aerospace Systems Quality Assurance Engineer
- Assistant Engineering Service Engineer
- Assistant Mechanical Engineer
- Assistant Simulator Systems Engineer
- Assistant Technical Service Engineer
- Flight Operations Officer
- Licensed Aircraft Maintenance Engineer
- Aircraft Maintenance Planning Executive

My time at SP gave me the opportunities to learn on real-life planes under the supervision of passionate lecturers.

My incredible internship at Xiamen also opened my eyes to the booming aerospace industry. Looking back, I am glad to have pursued Aeronautical Engineering at SP.

Low Hock An
DARE Gold Medallist, Class of 2017

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take Education and Career Guidance 1 – Personal Development (30 hours) in their first year. In their second year, students will take Education and Career Guidance 2 – Career Development (15 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an optional module.
ENTRY REQUIREMENTS

Range of Net 2020 JAE ELR2B2: 6 to 15

AGGREGATE TYPE: ELR2B2-C

SUBJECT GRADE

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It should be noted that applicants, particularly those who wish to pursue a career as a licensed Aircraft Engineer (LA), who have severe colour vision deficiency, uncontrolled epilepsy, and hearing deficiencies may encounter difficulties meeting the course requirements and examinations. Interested applicants with mild deficiencies in these areas are advised to contact Singapore Polytechnic for consultation.

COURSE HIGHLIGHTS

This course offers:

- 4,660 square metres state-of-the-art aircraft training facilities at AEROHUB with four aircraft (Hawker 125-700A, King Air B90, AAEU Super Skyhawk and Bell UH-1H Helicopter) and two full-size A320 cockpit flight simulators to provide authentic aircraft training experience.
- A curriculum that is aligned to the “Singapore Airworthiness Requirements Part 66” (SAR 66) specified by the Civil Aviation Authority of Singapore (CAAS) to prepare you for a career in the aerospace engineering industry sector.
- Opportunity to pursue a Private Pilot License (PPL) at Singapore Youth Flying Club (SYFC).
- Electives in the areas of:
  - Commercial Pilot Theory
  - Unmanned Aircraft Flying and Drone Technologies
  - Airport Terminal Operations & Management
- An exciting 2-week overseas exchange programme (Learning Express) where you will use your skills and knowledge to improve lives in the real world.
- Opportunities to go for overseas immersion programme in countries such as China and Taiwan.
- 22-week overseas or local internship opportunities at reputable local aerospace companies such as Airbus, Rolls-Royce, SIAEC, ST Engineering Aerospace, Thales, CAAS and Changi Airport Group.
- Premier Engineering Academy programme and UAV competitions (e.g. Singapore Amazing Flying Machine Competition).
- A curriculum that follows the CDIO (Conceive-Design-Implement-Operate) framework which is adopted in top universities such as MIT.
- A proven track record of DASE graduates admitted to local and overseas universities such as NUS, NTU, SUTD, SIT, SUES, Embry-Riddle Aeronautical University (USA), Imperial College (UK) and University of New South Wales (Australia).

DIPLOMA IN

AEROSPACE ELECTRONICS

(DASE – S90)

Are you excited by More Electric Aircraft (MEA) powering the future of the aerospace industry? How about playing a role in developing Maintenance Repair & Overhaul (MRO) solutions to turn Singapore into a smart aviation hub? If so, the Diploma in Aerospace Electronics (DASE) - the first aerospace diploma in Singapore - is your choice.

With the official industry support from ST Engineering Aerospace as our CAAS Approved Maintenance Training Organisation (SAR-147), this course will provide you an advantage in the aerospace MRO industry as well as to further your studies in local and overseas universities.

For those who aspire to be an aircraft pilot and/or CAAS certified drone pilot, this course offers various electives to pursue your passion and your pilot dream.

For more information, please refer to the official link: [Click here](#)
The Diploma in Aerospace Electronics is a three-year full-time programme.

### FURTHER STUDIES
You can gain advanced standing of up to two years of exemption in Aerospace Engineering, Electrical & Electronic Engineering or Computer Engineering degree courses in local and overseas universities such as NUS, NTU, SUTD, SIT, SUSS, Embry-Riddle Aeronautical University (USA), Imperial College (UK) and University of New South Wales (Australia).

The Singapore University of Social Sciences (SUSS) offers DASE graduates an accelerated pathway programme leading to a Bachelor of Engineering (Aerospace Systems).

### CAREER OPTIONS
Some possible careers include:
- Air Force Engineer (Maintenance)
- Air Traffic Controller
- Assistant Electrical Engineer
- Assistant Electronics Engineer
- Assistant Engineering Service Engineer
- Assistant Engineer (Training and Simulation Systems)
- Assistant Engineer (Unmanned Vehicle System Design)
- Assistant Aerospace Sales & Marketing Engineer
- Assistant Systems Integrator (Avionics)
- Assistant Technical Service Engineer
- Flight Operations Officer
- Licensed Aircraft Maintenance Engineer
- Planning Executive
- Quality Assurance Officer (Aircraft Systems)

Singapore Polytechnic has shaped my passion to become an engineer. Through the hands-on lab sessions and real-life projects, I learnt to be resourceful and to think critically.

Zheng Jinhe
DASE Gold Medallist, Class of 2019 and recipient of the NUS Engineering Scholarship

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### COURSE MODULES

#### DASE CURRICULUM STRUCTURE

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
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<tr>
<td>Aircraft Engineering</td>
<td>Aircraft Instrument Systems</td>
<td>Aircraft Communications &amp; Navigation</td>
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<tr>
<td>GCE A</td>
<td>Human Factors and Quality Systems</td>
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<tr>
<td>Principles of Electrical &amp; Electronic Engineering 1</td>
<td>Engineering Mathematics 2</td>
<td>Aeronautical Engineering Science</td>
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<tr>
<td>Introduction to Engineering</td>
<td>Communicating for Project Effectiveness</td>
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</tr>
<tr>
<td>Basic Mathematics</td>
<td>Elective 1</td>
<td>Elective 3</td>
</tr>
<tr>
<td>Personal &amp; Team Effectiveness</td>
<td>Structured Programming</td>
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<tr>
<td>Elective</td>
<td>Basic Mathematics</td>
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<td>Elective 2</td>
<td>Digital Electronics 1</td>
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<td>Elective 3</td>
<td>Digital Electronics 2</td>
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<td>Elective</td>
<td>Principles of Electrical &amp; Electronic Engineering 2</td>
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#### ELECTIVES

The SP elective framework offers students options to pursue their passion and / or meet different career needs, and is an integral part of the holistic education we seek to provide to our students. The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today’s volatile and changing societal as well as occupational landscape.

For a list of electives offered, please visit [www.sp.edu.sg](http://www.sp.edu.sg)

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### SEMESTER 1

#### YEAR 1

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

#### YEAR 2

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

#### YEAR 3

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

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### SEMESTER 2

#### YEAR 1

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

#### YEAR 2

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

#### YEAR 3

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

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### SEMESTER 3

#### YEAR 1

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

#### YEAR 2

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

#### YEAR 3

- Aircraft Maintenance Practices
- Aircraft Instrument Systems
- Human Factors and Quality Systems
- Aeronautical Engineering Science
- Elective 1
- Elective 2
- Elective 3

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### All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SP modules as an optional module.

### CAREER OPTIONS

Some possible careers include:

- Air Force Engineer (Maintenance)
- Air Traffic Controller
- Assistant Electrical Engineer
- Assistant Electronics Engineer
- Assistant Engineering Service Engineer
- Assistant Engineer (Training and Simulation Systems)
- Assistant Engineer (Unmanned Vehicle System Design)
- Assistant Aerospace Sales & Marketing Engineer
- Assistant Systems Integrator (Avionics)
- Assistant Technical Service Engineer
- Flight Operations Officer
- Licensed Aircraft Maintenance Engineer
- Planning Executive
- Quality Assurance Officer (Aircraft Systems)

The Singapore University of Social Sciences (SUSS) offers DASE graduates an accelerated pathway programme leading to a Bachelor of Engineering (Aerospace Systems).

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### Further studies

You can gain advanced standing of up to two years of exemption in Aerospace Engineering, Electrical & Electronic Engineering or Computer Engineering degree courses in local and overseas universities such as NUS, NTU, SUTD, SIT, SUSS, Embry-Riddle Aeronautical University (USA), Imperial College (UK) and University of New South Wales (Australia).

The Singapore University of Social Sciences (SUSS) offers DASE graduates an accelerated pathway programme leading to a Bachelor of Engineering (Aerospace Systems).
The Common Engineering Programme has a specially crafted curriculum for those passionate about Engineering but need guidance on the discipline to specialise in. After the first semester, the student chooses to pursue one of seven established engineering diplomas offered by the School of MAE and School of EEE:

- S88 Aeronautical Engineering
- S90 Aerospace Electronics
- S53 Computer Engineering
- S99 Electrical & Electronic Engineering
- S42 Engineering with Business
- S91 Mechanical Engineering
- S73 Mechatronics & Robotics

This programme:
• Offers you a wide range of engineering choices, giving you an insight to what interests you the most.
• Begins with a semester that gives an overview of the skills, competencies and equipment pertinent to various technologies.
• Provides you with comprehensive exposure to ascertain your strengths and interests leading to an informed career path.

**ENTRY REQUIREMENTS**

Range of Net 2020 JAE ELR2B2: 4 to 16

**AGGREGATE TYPE:** ELR2B2-C

**SUBJECT** | **GRADE**
--- | ---
English Language | 1 - 7
Mathematics (Elementary / Additional) | 1 - 6
One of the following 3rd relevant subjects: | 1 - 6
- Biology
- Biotechnology
- Chemistry
- Computing / Computer Studies
- Design & Technology
- Electronics / Fundamentals of Electronics
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)
COURSE MODULES

The Common Engineering Programme is a full-time first semester programme and you will progress to one of seven full-time engineering courses.

FIRST YEAR
(SEMESTER 1)
- Basic Mathematics
- Computer-Aided Drafting
- Critical and Analytical Thinking
- Digital Electronics I
- Introduction to Engineering I
- Mechanics I
- Principles of Electrical & Electronic Engineering I

(SEMESTER 2)
For DARE / DME / DMRO Option
- Communicating for Personal and Team Effectiveness
- Communicating for Project Effectiveness
- Computer Programming
- Engineering Materials I
- Engineering Mathematics I
- Introduction to Engineering
- Narrative Thinking
- Thermofluids I

For DASE / DCPE / DEB* / DEEE Option
- Communicating for Personal and Team Effectiveness
- Digital Electronics 2
- Engineering Design and Solutions
- Engineering Mathematics I
- Narrative Thinking
- Principles of Electrical & Electronic Engineering 2
- Structured Programming

* DEB students will undertake remaining Year One modules in fulfilment of the course. Please refer to DEB course details.

SECOND & THIRD YEAR
Students will take the modules of the engineering course that they have opted for the First Year.

FURTHER STUDIES
Depending on your specialisation, you can continue to pursue an engineering degree programme at local or foreign universities.

CAREER OPTIONS
To be streamed to one of the engineering courses listed after one semester in SP.

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP:
- Students will take Education and Career Guidance 1 – Personal Development (30 hours) in their first year.
- In their second year, students will take Education and Career Guidance 2 – Career Development (15 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP.
- In their second and third year, students may sign up for SFL modules as an optional module.

SELECTING THE CEP COURSE

Selecting the CEP course has allowed me to appreciate modules from both electrical and mechanical engineering. This allowed me to make an informed decision on which engineering course to specialise in.

Teo Zhe Kai
CEP student, Class of 2019
DIPLOMA IN
COMPUTER
ENGINEERING
(DCPE – S53)

Computer Engineering is a discipline that combines the hardware and software aspects of computer science. Computers are at the heart of any modern, high-tech systems, be it a “Smart City”, driverless cars, fighter planes, medical instruments, public transportation systems or weapon systems. Devices and systems are becoming “smarter” because of computers.

The Diploma in Computer Engineering (DCPE) course aims to equip you with a solid foundation in computer networking, hardware and software engineering.

You will be trained in Electronic Engineering, Software Programming, Computer Hardware-Software Integration, Cloud Computing, Machine Learning/Artificial Intelligence and Mathematics.

With skills in these areas, you will be empowered to meet the challenge of the digital world, allowing you to develop secured smart solutions, intelligent devices and innovative info-communication services.

You are hereby notified of the following Course Highlights:

**This course offers:**
- 40 SingTel Engineering Cadet Scholarships for DCPE students, covering tuition fees, monthly allowance and laptop allowance during Year 2 and Year 3 of the course.
- The most comprehensive diploma course of its kind, covering Embedded Systems, Software, Networking, Security, Internet of Things (IoT) and Cloud Computing.
- A wide variety of specialisation options in Computer Applications, Cyber Security, Cloud Computing and Smart City Technologies.
- Alignment with industrial certifications such as CCNA, CompTIA Cloud Essentials, CCNA Security / CompTIA Security+, CCNA Cyber Ops to enhance your career prospects.
- An edge in the Data Centre management, via hands-on experiential learning opportunities in our very own Data Centre.
- 22-week internship opportunities at reputed companies for exposure to various aspects of computing, networking and research.
- Opportunities to join the premier Engineering Academy programme and take part in local and overseas competitions.
- A curriculum that follows the CDIO (Conceive-Design-Implement-Operate) framework, which is used in top universities in the United States, Europe and Australia.
- Generous credit exemptions from local and overseas universities for Computer Science / Engineering, Infocomm Engineering, and Electronic Engineering degree courses.

**ENTRY REQUIREMENTS**

Range of Net 2020 JAE ELR2B2: 4 to 14

**AGGREGATE TYPE:** ELR2B2-C

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FURTHER STUDIES

There are plenty of degree programmes that DCPE graduates may apply for. You can gain direct entry into the second year of local universities to pursue a degree in Electrical & Electronic Engineering and/or advance placements in Computer Science / Engineering.

You will also be eligible for advance placements in Computer Science / Engineering, Network Engineering, Information Systems Engineering and Electrical & Electronic Engineering in universities in Australia, New Zealand and United Kingdom.

CAREER OPTIONS

Some possible careers include:

- Assistant Computer Engineer
- Associate Security Engineer
- Cloud Engineer
- Embedded System Engineer
- IT Support Engineer
- Network Engineer / Administrator
- Software / Mobile Applications Developer

Singapore Polytechnic's DCPE was my top choice as I knew that it will equip me with the relevant computer networking and cyber security skills and industrial certifications. I also had the opportunity to apply my skills and knowledge during my internship at the Center for Strategic Infocomm Technologies where I developed a unique solution to identify potential data leakage. This has given me the confidence to help support Singapore's growing need for computer scientists and engineers.

Ong Jun Hock, Ryan
Lee Kuan Yew Award recipient and DCPE Gold Medallist, Class of 2019

Ong Jun Hock, Ryan
Lee Kuan Yew Award recipient and DCPE Gold Medallist, Class of 2019

COURSE MODULES

The Diploma in Computer Engineering is a three-year full-time programme.

FIRST YEAR
- Basic Mathematics
- Communicating for Personal and Team Effectiveness
- Computer-Aided Design & Drafting
- Critical & Analytical Thinking
- Digital Electronics 1

SECOND YEAR
(CORE MODULES)
- Communicating for Project (Report)
  - Effectiveness
  - Elective 1
  - Elective 2
  - Engineering Mathematics 2
  - Server Management
  - Social Innovation Project
  - Statistics and Analytics for Engineers

YEAR-2 TECHNICAL PATHS
(CHOOSING ANY 1 PATH FROM THE FOLLOWING)

COMPUTER ENGINEERING & SOFTWARE
("CES" PATH)
- Client-Server Applications Development
- Computer Interfacing
- Data Structures & Algorithms
- Microcontroller Applications
- Mobile Apps Development

COMPUTER NETWORKING & SECURITY
("CNS" PATH)
- Computer Networking
- LAN Switching & Wireless
- Network Vulnerabilities & Security Tools
- TCP / IP
- Wide Area Networks

THIRD YEAR
(CORE MODULE)
- 22-week Internship
- Communicating for Professional Effectiveness
- Elective 3

Application Modules
(CHOOSING ANY ONE FROM THE FOLLOWING, ACCORDING TO YEAR-2 TECHNICAL PATH)

COMPUTER APPLICATIONS
(Available to CES path only)
- Embedded Computer Systems

CLOUD SYSTEMS
(Available to both CES and CNS paths)
- Cloud Computing Services
- Data Centre Management
- Operating Systems
- System Virtualization

SMART CITY TECHNOLOGIES
(Available to both CES and CNS paths)
- Data Analytics
- Internet of Things Security
- Smart City Systems Design
- Wireless Technology Applications

CYBER SECURITY
(Available to CNS path only)
- Cyber Security Operations
- Firewall Technologies
- Internet Security
- Network Analysis & Forensics

FIRST YEAR
(CORE MODULE)
- Basic Mathematics
- Communicating for Personal and Team Effectiveness
- Computer-Aided Design & Drafting
- Critical & Analytical Thinking
- Digital Electronics 1

YEAR-2 TECHNICAL PATHS
(CHOOSING ANY 1 PATH FROM THE FOLLOWING)

COMPUTER ENGINEERING & SOFTWARE
("CES" PATH)
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- Computer Interfacing
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- Internet of Things Security
- Smart City Systems Design
- Wireless Technology Applications

CYBER SECURITY
(Available to CNS path only)
- Cyber Security Operations
- Firewall Technologies
- Internet Security
- Network Analysis & Forensics

APPLICATION MODULES

Electives

The SP elective framework offers students options to pursue their passion and / or meet different career needs, and is an integral part of the holistic education we seek to provide to our students.

The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today's volatile and changing societal as well as occupational landscape.

For a list of electives offered, please visit: www.sp.edu.sg

All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take Education and Career Guidance 1 – Personal Development (30 hours) in their first year. In their second year, students will take Education and Career Guidance 2 – Career Development (15 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an optional module.

For a list of electives offered, please visit: www.sp.edu.sg
DIPLOMA IN

ELECTRICAL & ELECTRONIC ENGINEERING

(DEEE – S99)

The Diploma in Electrical & Electronic Engineering (DEEE) is an established engineering course with a history of more than 60 years. More than 20,000 students have passed through this course and many of them have successfully emerged as captains in their respective fields. It is a course well-recognised by industries and universities (local & overseas). Through the DEEE course, you will be prepared to be a competent and much sought-after technologist. You will also have the opportunity to participate in the creation of new and vital technologies which are antidotes to most problems in future.

Through this broad-based course, you will become a solution-minded engineer who can work in many industries. The course will equip you with skills and knowledge such as the development of semiconductor chips for smartphones, Industry 4.0 concepts and technologies, the handling of cutting-edge healthcare equipment and the design of power transmission and distribution systems.

You will also be in high demand with numerous career opportunities across an extensive range of industries such as: biomedical, automation, telecommunication, power engineering, rapid transit, microelectronics and more.

This course offers:

- A flexible curriculum with a choice of 6 specialisations in the 3rd year: Biomedical, Communication, Microelectronics, Power, Rapid Transit and Robotics & Control.
- Augmented learning environment in rail engineering with our latest integrated Rail System Simulator, a first among the polytechnics, and an edge in 5G wireless technology in the first-of-its-kind 5G Garage, in collaboration with Singtel and Ericsson.
- 22-week internship opportunities at reputable companies such as SP Group, SMRT, A*STAR, PSA, Siemens and UT Electronics.
- The option to be involved in industry projects, research, competition or other high profile projects in lieu of an internship.
- Opportunities to join the premier Engineering Academy programme and take part in local and overseas competitions.
- A curriculum that follows the CDIO (Conceive-Design-Implement-Operate) framework which is used in top universities in the United States, Europe and Australia.
- Recognition by the Energy Market Authority (EMA) of Singapore for the application of an Electrical Technician License if you specialise in Power Engineering.
- Generous credit exemptions from local and overseas universities for Electrical and Electronic Engineering degree courses.
- Prestigious scholarships including the Energy-Industry Scholarship, SGRail Scholarship and Singapore-Industry Scholarship.
- A curriculum that follows the CDIO (Conceive-Design-Implement-Operate) framework, which is used in top universities in the United States, Europe and Australia.
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ENTRY REQUIREMENTS

Range of Net 2020 JAE ELR2B2: 8 to 19

AGGREGATE TYPE: ELR2B2-C

SUBJECT GRADE

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It should be noted that applicants, particularly those who wish to pursue a career in electrical power engineering or as a Licensed Electrical Worker (LEW), with colour vision deficiency may encounter difficulties meeting the course requirements and expectations, as normal colour vision is required by the Energy Market Authority (EMA) of Singapore. Those with mild colour deficiency are required to undergo an in-house test. Interested applicants with this condition are highly encouraged to contact Singapore Polytechnic for more information.
All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP.

In their second and third year, students may sign up for SFL modules as an optional module.

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP.

In their second year, students will take Education and Career Guidance 2 – Career Development (15 hours).

Students will take Education and Career Guidance 1 – Personal Development (30 hours) in their first year.

For a list of electives offered, please visit www.sp.edu.sg.

Electives

The SP elective framework offers students options to pursue their passion and / or meet different career needs, and is an integral part of the holistic education we seek to provide to our students. The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today’s volatile and changing societal as well as occupational landscape.

For a list of electives offered, please visit www.sp.edu.sg.

Electives

The Diploma in Electrical & Electronic Engineering is a three-year full-time programme.

FIRST YEAR

• Basic Mathematics
• Communicating for Personal and Team Effectiveness
• Computer-Aided Design & Drafting
• Critical & Analytical Thinking
• Digital Electronics I

SECOND YEAR

• Circuit Theory & Analysis
• Communicating for Project (Report) Effectiveness
• Digital System Design
• Elective 1

THIRD YEAR

• 22-week internship
• Communicating for Professional Effectiveness
• Elective 3

TECHNICAL MODULES

(Choose any 1 of the following specialisations)

Biomedical

• Anatomy & Physiology
• Biomedical Equipment & Practices
• Biomedical Instrumentation Design & Applications
• Robotics Technology

Communication

• Digital Electronics 2
• Engineering Design & Solutions
• Engineering Mathematics 1
• Introduction to Engineering
• Narrative Thinking
• Network Fundamentals

Elective 2

• Electrical Installation Design
• Engineering Mathematics 2
• Microcontroller Applications
• Physics for Engineers

Microelectronics

• Advanced Wafer Fabrication Technology
• Satellite & Optical Communication
• Wireless Technology Applications

Power

• PLC Applications
• Social Innovation Project
• Statistics and Analytics for Engineers
• Wafer Fabrication Fundamentals

Powers

• Microcontroller Applications
• Switching Power Electronics

Rapid Transit Technology

• Principles of Communication
• Rapid Transit Signalling System
• Rapid Transit System
• Smart Sensors & Actuators
• Robotics & Control

• Digital Manufacturing Technology
• Robotics Technology
• Smart Sensors & Actuators
• Systems & Control

Robotics & Control

• Advanced Wafer Fabrication Technology
• IC Design
• IC Testing
• Quality & Reliability

Elective 3

• Power Electronics & Drives
• Power System Analysis
• Power Transmission & Distribution
• Smart Grid & Energy Storage

Career Options

CAREER OPTIONS

Some possible careers include:

• Assistant Electrical Engineer
• Assistant Electronics Engineer
• Assistant Engineer (Automation)
• Assistant Facilities Management Engineer
• Assistant Field Service Engineer
• Assistant Maintenance Engineer
• Assistant Process Engineer
• Assistant Project Engineer
• Assistant Quality Engineer
• Assistant Test Engineer
• Biomedical Equipment Service Engineer
• Material Planner
• Technical Officer (Control & Instrumentation)
• Technical Officer (Power Distribution System)

Further Studies

You can gain direct entry into the second year of local universities to pursue a degree in Electrical & Electronic Engineering. You may be granted advanced standing of up to two years when applying for related degree programmes at overseas universities in Australia, New Zealand and the United Kingdom.

FURTHER STUDIES

Having an inquisitive mind, I was intrigued by how things work. Singapore Polytechnic’s Diploma in Electrical & Electronic Engineering (DEEE) course has exposed me to a wide range of technologies in electrical and electronic engineering. The course emphasis in solving related practical problems appealed to me. The DEEE course also provided me with a holistic education, and equipped me with both broad and deep foundations. I am grateful that the DEEE course prepared me to be industry-ready and nurtured me to become a life-long learner.

Quek Jun Hui

DEEE Gold Medallist, Class of 2019
DIPLOMA IN
ENGINEERING
WITH BUSINESS
(DEB – S42)

Are you stuck between choosing an engineering or business course? Then, the Diploma in Engineering with Business is the right choice for you. This course gives you the best of both worlds and trains you to be a business-minded engineer with an entrepreneurial mindset.

In this course, you will acquire knowledge and skills in electrical and mechanical engineering. You can spend up to a third of your time learning and applying business concepts to engineering products and businesses. With the network of industry partners and mentors, this course will also give you the head start to become a Technopreneur.

COURSE HIGHLIGHTS

This course offers:
- A curriculum with modules from three SP schools – School of Electrical & Electronic Engineering, School of Mechanical and Aeronautical Engineering and School of Business.
- Integration of engineering and business knowledge with a strong focus on technopreneurship.
- Technology to Business (T2B) Hub at EEE which provides collaborative space for start-ups where DEB students can network with like-minded entrepreneurs and venture into businesses with mentorship provided by eminent industry partners such as Dr Patrick Liew (Chairman of GEX Ventures and Entrepreneur of the Year Award For Social Contribution).
- An enriching and exciting overseas technopreneurship immersion programme in Japan or China.
- An exciting 2-week overseas exchange programme (Learning Express) where you will use your skills and knowledge to improve lives in the real world.
- Electives in the areas of:
  - Introduction to Entrepreneurship
  - Python Coding for the Internet of Things
  - AWS Cloud Foundations
  - Robotics Technologies
  - 22-week overseas and local internship opportunities at reputable companies such as OCBC, Mapletree, ST Electronics, Panasonic, SSMC and A*STAR.
  - Premier Engineering Academy programme and also opportunities to take part in local and overseas competitions.
  - A curriculum that follows the CDIO (Concept-Design-Implement-Operate) framework which is adopted in top universities such as MIT.
  - A proven track record of DEB graduates admitted to local and overseas universities such as NUS, NTU, SUTD, SMU, SIT and University College London (UCL) with up to 2 years of advanced standing.

ENTRY REQUIREMENTS

AGGREGATE TYPE: ELR2B2-C

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FURTHER STUDIES
You have the flexibility to further your studies in engineering, business or similar inter-disciplinary programmes in both local and overseas universities. You can get advanced standing of up to 2 years when you take up engineering or business degree programmes.

CAREER OPTIONS
Some possible careers include:
- Assistant Engineer (Product Design/Development)
- Assistant Engineer (Project)
- Business Development Executive
- Customer Relationship Management Executive
- Entrepreneur
- Procurement Executive
- Sales and Marketing Executive

The DEB curriculum gave me the opportunity to explore how business skill sets can complement technology to solve today’s complex problems. Through numerous hands-on projects and my internship, I had the chance to apply the knowledge and skills acquired in school to real-world problems. Most importantly, I am grateful for the guidance, support and help from the staff, lecturers and friends in SP that have helped me develop myself into the person I am today—a more resourceful, confident and better engineer.

Raynard Chai Yu Cheng
DEB Gold Medallist, Class of 2019 and recipient of the SUTD Global Distinguished Scholarship

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Raynard Chai Yu Cheng
DEB Gold Medallist, Class of 2019 and recipient of the SUTD Global Distinguished Scholarship
DIPLOMA IN
MECHANICAL ENGINEERING
(DME – S91)

This is Singapore’s first Engineering course, offered since 1958, and it has remained the island’s de facto first-choice Mechanical Engineering diploma course.

Regardless of your specialisation, we are also constantly reinventing to align with international trends and accreditations. You will not only develop a firm foundation in a wide range of Engineering disciplines but also acquire basic skills in Business and Humanities. In your final year, you will be streamed in one of seven technology options. Many graduates have built successful careers in Engineering. Some are leading large corporations or have started their own businesses.

From 2020, the Diploma in Mechanical Engineering will be offering Biomedical Engineering as a “new” technology specialisation. Consider this specialisation if you are interested to collaborate with engineers, doctors and scientists in the rapidly advancing biomedical sciences industry to churn out innovative equipment and procedures!

COURSE HIGHLIGHTS

This course offers:
• CDIO (Conceive-Design-Implement-Operate) framework and Design Thinking methodology.
• Streaming into one of the following technology specialisations:
  - Aerospace Technology.
  - “NEW” Biomedical Engineering (From 2020 onwards).
  - Energy Systems.
  - Facilities Management.
  - Machine Design.
  - Precision Engineering.
  - Product Realisation.
• Internships with reputable organisations and exposure to real-world projects.
• Be exposed to the latest advanced manufacturing technologies at our high-tech learning space.

ENTRY REQUIREMENTS

Range of Net 2020 JAE ELR2B2: 7 to 16
AGGREGATE TYPE: ELR2B2-C

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  - Biotechnology
  - Chemistry
  - Computing / Computer Studies
  - Design & Technology
  - Electronics / Fundamentals of Electronics
  - Physics
  - Science (Chemistry, Biology)
  - Science (Physics, Biology)
  - Science (Physics, Chemistry)
The Diploma in Mechanical Engineering is a three-year full-time course with common first-year modules.

**COURSE MODULES**

**FIRST YEAR**
- Basic Mathematics
- Communicating for Personal and Team Effectiveness
- Computer Programming
- Computer-Aided Drafting
- Elective 1
- Elective 2
- Industrial Automation
- Instrumentation & Control
- Mechanics 1
- Critical and Analytical Thinking
- Digital Electronics
- Engineering Materials 1
- Engineering Mathematics 1
- Introduction to Engineering
- Mechanics
- Narrative Thinking
- Principles of Electrical & Electronic Engineering
- Thermofluids 1

**SECOND YEAR**
- Computer-Aided Machining
- Design and Build
- Engineering Materials 2
- Engineering Mathematics 2
- Elective 3
- Industrial Automation
- Instrumentation & Control
- Mechanics 2
- Social Innovation Project
- Statistics and Analytics for Engineers
- Thermofluids 2

**THIRD YEAR**
- Communicating for Professional Effectiveness
- Elective 4
- Internship Programme / Internship Equivalent (industry-in-campus project)
- Communicating for Project Effectiveness
- Elective 5
- Elective 6
- Engineering Thermodynamics
- Fluid Mechanics
- Mechanics 3
- Workplace Safety & Health Management
- Engineering Materials 2
- Engineering Mathematics 2
- Elective 7
- Elective 8
- Aerospace Materials
- Aircraft Systems
- Assasive Technology and Rehabilitation Engineering
- Biofluids
- Biomechanics
- cGMP and Medical Device Validation
- Contamination Controls and Clean Room
- Laboratory Skills and Techniques
- Refrigeration & Air-Conditioning
- Renewable Energy & Applications
- Critical Thinking
- Digital Electronics
- Engineering Materials 1
- Engineering Mathematics 1
- Introduction to Engineering
- Mechanics
- Narrative Thinking
- Principles of Electrical & Electronic Engineering
- Thermofluids 1

**SPECIALISATION MODULES (CHOOSE ONE OF THE FOLLOWING SPECIALISATION):**

**AEROSPACE TECHNOLOGY**
- Aerospace Materials
- Aircraft Systems

**BIOMEDICAL ENGINEERING**
- Assistive Technology and Rehabilitation Engineering
- Biofluids
- Biomechanics
- cGMP and Medical Device Validation
- Contamination Controls and Clean Room
- Laboratory Skills and Techniques
- Refrigeration & Air-Conditioning
- Renewable Energy & Applications
- Critical Thinking
- Digital Electronics
- Engineering Materials 1
- Engineering Mathematics 1
- Introduction to Engineering
- Mechanics
- Narrative Thinking
- Principles of Electrical & Electronic Engineering
- Thermofluids 1

**FACILITIES MANAGEMENT**
- Facilities Maintenance Engineering & Services
- Renewable Energy & Applications

**MACHINE DESIGN**
- System Integration
- Tooling Engineering

**PRECISION ENGINEERING**
- Advanced Machining & Metrology
- Tooling Engineering

**PRODUCT REALISATION**
- Ergonomics & Universal Design
- Product Design & Development

**ENERGY SYSTEMS**
- Refrigeration & Air-Conditioning
- Renewable Energy & Applications

**FIRST YEAR**
- Computer-Aided Machining
- Design and Build
- Engineering Materials 2
- Engineering Mathematics 2
- Elective 3
- Industrial Automation
- Instrumentation & Control
- Mechanics 2
- Social Innovation Project
- Statistics and Analytics for Engineers
- Thermofluids 2

**SECOND YEAR**
- Communicating for Professional Effectiveness
- Elective 4
- Internship Programme / Internship Equivalent (industry-in-campus project)
- Communicating for Project Effectiveness
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- Digital Electronics
- Engineering Materials 1
- Engineering Mathematics 1
- Introduction to Engineering
- Mechanics
- Narrative Thinking
- Principles of Electrical & Electronic Engineering
- Thermofluids 1

**FACILITIES MANAGEMENT**
- Facilities Maintenance Engineering & Services
- Renewable Energy & Applications

**MACHINE DESIGN**
- System Integration
- Tooling Engineering

**PRECISION ENGINEERING**
- Advanced Machining & Metrology
- Tooling Engineering

**PRODUCT REALISATION**
- Ergonomics & Universal Design
- Product Design & Development

Electives
The SP elective framework offers students options to pursue their passion and / or meet different career needs, and is an integral part of the holistic education we seek to provide to our students. The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today’s volatile and changing societal as well as occupational landscape. For a list of electives offered, please visit www.sp.edu.sg

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In their second year, students will take Education and Career Guidance 2 – Career Development (30 hours).
All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP.
In their second and third year, students may sign up for SFL module as an optional module.

**FURTHER STUDIES**
You can gain advanced standing of up to two years in mechanical engineering degree courses at local and overseas universities, such as:
- Nanyang Technological University
- National University of Singapore
- Singapore University of Social Sciences
- Imperial College
- University of Manchester
- University of Birmingham
- University of New South Wales
- RMIT University

**CAREER OPTIONS**
- Assistant Aircraft Engineer
- Assistant Engineering Services Engineer
- Assistant Facility Engineer
- Assistant HVAC (Heating, Ventilation & Air-Conditioning) Engineer
- Assistant Machine & Product Design Engineer
- Assistant Manufacturing Engineer
- Assistant Medical Device / Equipment Application Engineer
- Assistant Medical Device Design Engineer
- Assistant Mechanical Engineer
- Assistant Project Engineer
- Assistant Quality Control / Assurance Engineer
- Assistant Quality Engineer
- Assistant R&D (Research & Development) Engineer
- Assistant Tooling Engineer
- Bioengineering Technologist
- Licensed Aircraft Maintenance Engineer
- Medical Equipment Technologist
- Regulatory Affairs Specialist

My time in the DME course has equipped me with the skills and knowledge to venture into other engineering fields if I choose to. I can now pursue my dreams of becoming an engineer who can impact the community positively.

Chiew Kang Lin
Tay Eng Soon Gold Medal winner, DME Silver Medallist, Class of 2018
DIPLOMA IN
MECHATRONICS & ROBOTICS
(DMRO – S73)

ENTRY REQUIREMENTS
Range of Net 2020 JAE ELR2B2: 5 to 11
AGGREGATE TYPE: ELR2B2-C

This course offers:
• The chance to branch out into other fields of Engineering.
• Multi-skills and knowledge that cover Mechanical Engineering, Electronics and Computer Technology.
• Real and relevant first-hand work experience and engaging projects with reputable organisations.
• The opportunity to obtain additional certifications through poly-wide electives.

SP launched Singapore's first Mechatronics diploma course in 1991 to meet the niche demand for cross disciplinary Engineers in precision engineering work.

With the emergence of Advanced Manufacturing and Industry 4.0, the course has since diversified into the fields of collaborative robotics, autonomous electric vehicles and smart automation equipping our graduates with the relevant skills and mind-set to meet challenges of the future.

Training has gone beyond the core areas of Mechanical Engineering and Electronics to include a plethora of skills in IT, programming, analytics and design.

As a DMRO student, you will have the opportunity to work with renowned industry partners during the Internship Programme/Project and participate in competitions locally and internationally.

In DMRO, we turn dreams and aspirations into reality!
FURTHER STUDIES
DMRO graduates gain direct entry into the second year of related Engineering degree courses at local and overseas universities such as:
- Nanyang Technological University
- National University of Singapore
- Singapore University of Technology & Design
- Singapore Institute of Technology
- Newcastle University
- Technische Universität München
- University of Glasgow
- DigiPen Institute of Technology

CAREER OPTIONS
- Assistant Automation Engineer
- Assistant Design Engineer
- Assistant Electromechanical Engineer
- Assistant Mechanical Engineer
- Assistant Mechatronics Engineer
- Assistant Robotics Engineer
- Assistant System Development Engineer

I was always interested in robots and my interest deepened in secondary school as I had hands-on experience building and programming them.

When it was time to choose a course after my ‘O’ levels, I knew that Singapore Polytechnic’s DMRO course was my first choice.

Over the years, the practical and relevant modules of the DMRO course equipped me with engineering fundamentals and hands-on capabilities. DMRO is a unique course that bridges Mechanical, Electrical & Electronics Engineering with Programming to design and build intelligent systems.

My most memorable experience was my six-month internship at SIMTech’s robotics branch where I developed an app to control a cleaning robot. Even though I had no prior knowledge in developing an app, I was able to build upon the programming skills I picked up in the course. It was a great sense of achievement to develop a working prototype and the experience helped to develop my technical abilities and soft skills such as communication and teamwork. I know that I am now ready to take on further studies or a career as a robotics researcher.

Tan Choon Kai, Glenn
DMRO Gold Medallist, Class of 2019
GLOBAL EXPLORATION

At SP Engineering, our students get to experience the world and learn from other cultures through overseas industrial attachments, learning journeys, competitions and community service trips in places such as Australia, China, South Korea, Sri Lanka and more.
SP also offers the following engineering courses:

**SCHOOL OF ARCHITECTURE AND THE BUILT ENVIRONMENT**
Diploma in Civil Engineering

**SCHOOL OF CHEMICAL & LIFE SCIENCES**
Diploma in Chemical Engineering

**SINGAPORE MARITIME ACADEMY**
Diploma in Marine Engineering