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.

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 Bioengineering 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.
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 limited number 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 exposed to an exciting and intensive experience where you learn to create workable solutions to solve real-world problems. That means: figuring out the right questions to ask, taking charge of your own learning and working 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.

**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

**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/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 gifted SP students into well-rounded individuals who are humanitarians, communicators and leaders.
ENTRY REQUIREMENTS

Range of Net 2019 JAE ELR2B2: 4 to 13
AGGREGATE TYPE: ELR2B2-C

SUBJECT GRADE

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<td>• Science (Physics)</td>
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</table>

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 UH-1H 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).
- 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.
  - Opportunity 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).

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 is 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 and built in-house. Teaching and Learning is based on the proven CDIO (Conceive-Design-Implement-Operate) framework and Design Thinking methodology.

As an official ST Engineering Aerospace SAR147 B1 & B2 training partner, 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.
FURTHER STUDIES
The Singapore Institute of Technology (SIT) and University of Glasgow have accredited the DARE course and allow its graduates to complete the Bachelor of Engineering (Honours) in Aeronautical Engineering and Bachelor of Engineering (Honours) in Aerospace Systems within two years at the Singapore Polytechnic campus. During the three years of your DARE course, you can choose to complete three modules offered by SIM University to qualify for its two-year through-train degree programme in Bachelor of Engineering (Honours) in Aerospace Systems. Qualified DARE graduates gain direct entry into Aeronautical, Mechanical Engineering, Aviation Management and Science degree courses. Local and overseas universities offering advanced standing of up to two years include:

- Nanyang Technological University
- National University of Singapore
- Singapore University of Technology & Design
- Embry-Riddle Aeronautical University, USA
- University of New South Wales, Australia
- Imperial College, UK

CAREER OPTIONS
- Aeronautical Engineering Technologist
- Air Traffic Controller
- Air Transport Operators
- 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
- Assistant Unmanned Vehicle System Design Engineer
- Flight Operations Officer
- Licensed Aircraft Maintenance Engineer
- 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
ENTRY REQUIREMENTS

Range of Net 2019 JAE ELR2B2: 4 to 15

AGGREGATE TYPE: ELR2B2-C

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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)

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, 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.

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 SAR147 B1 & B2 training partner, 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 you various electives to pursue your passion and your pilot dream.

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, A4EU 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 Clubs (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 programmes in countries such as China and Taiwan.
- 22-week overseas or local internship opportunities at reputable local aerospace companies such as Airbus, Rolls-Royce, SMAC, ST Engineering Aerospace, Thales, CAAS and Changi Airport Group.
- 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, SUSS, Embry-Riddle Aeronautical University (USA), Imperial College (UK) and University of New South Wales (Australia).

COURSE HIGHLIGHTS

- 4,660 square metres state-of-the-art aircraft training facilities at AEROHUB with four aircraft (Hawker 125-700A, King Air B90, A4EU Super Skyhawk and Bell UH-1H Helicopter) and two full-size A320 cockpit flight simulators to provide authentic aircraft training experience.
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- A proven track record of DASE graduates admitted to 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).
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

FURTHER STUDIES
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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
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

**ENTRY REQUIREMENTS**

Range of Net 2019 JAE ELR2B2: 5 to 16

AGGREGATE TYPE: ELR2B2-C

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<td>• Science (Physics, Chemistry)</td>
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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.
**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**

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

**(SEMIESTER 2)**
- Communicating for Personal and Team Effectiveness
- Communicating for Project Effectiveness
- Computer Programming
- Engineering Materials 1
- Engineering Mathematics 1
- Introduction to Engineering
- Narrative Thinking
- Thermofluids 1

For DARE / DMRO Option
- Digital Electronics 2
- Engineering Design and Solutions
- Engineering Mathematics 1
- Narrative Thinking
- Principles of Electrical & Electronic Engineering 2
- Structured Programming

For DASE / DCPE / DEB* / DEEE Option
- Communicating for Personal and Team Effectiveness
- Digital Electronics 2
- Engineering Mathematics 1
- 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 in the First Year.

16

**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.

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<tr>
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<td>DME</td>
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Second / Third Year (Proced and continue with selected course)

*Course allocation of students are based on their 1st semester cGPA (with focus on associated school/course modules), course choices and vacancies in courses.

"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.

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 reputable 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 2019 JAE ELR2B2: 4 to 14
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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

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

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.

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
- Principles of Electrical & Electronic Engineering 1
- Principles of Electrical & Electronic Engineering 2
- Structured Programming
- Digital Electronics 2
- Engineering Design & Solutions
- Engineering Mathematics 1
- Introduction to Engineering
- Narrative Thinking
- Network Fundamentals

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 (CHOOSE 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

(CHOICE 1 OPTION FROM THE FOLLOWING, ACCORDING TO YEAR-2 TECHNICAL PATH)

- COMPUTER APPLICATIONS (Available to CES path only)
  - Machine Learning & Artificial Intelligence
  - Microprocessor Systems & Programming
  - Object Oriented Programming
  - Embedded Computer Systems

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

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

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

ELECTIVES

- Data Analytics
- Internet of Things Security
- Smart City Systems Design
- Wireless Technology Applications

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 SP101A: Education and Career Guidance 1 – Personal Development (15 hours) in their first year.

In their second or third year, students will take SP201A: 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 elective.
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.

Course Highlights

- 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 ST 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.

Entry Requirements

Range of Net 2019 JAE ELR2B2: 5 to 21
AGGREGATE TYPE: ELR2B2-C

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

**COURSE MODULES**

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.

**FIRST YEAR**
- Basic Mathematics
- Communicating for Personal and Team Effectiveness
- Computer Aided Design & Drafting
- Critical & Analytical Thinking
- Digital Electronics I
- Digital Electronics 2
- Engineering Design & Solutions
- Engineering Mathematics I
- Introduction to Engineering
- Narrative Thinking
- Network Fundamentals
- Principles of Electrical & Electronic Engineering I
- Principles of Electrical & Electronic Engineering 2
- Structured Programming
- PLC Applications
- Social Innovation Project
- Statistics and Analysis for Engineers
- Water Fabrication Fundamentals

**SECOND YEAR**
- Circuit Theory & Analysis
- Communicating for Project (Report) Effectiveness
- Digital System Design
- Elective 1
- Elective 2
- Electrical Installation Design
- Engineering Mathematics 2
- Microcontroller Applications
- Physics for Engineers
- Protection and Reliability of Power Systems
- Principles of Communication
- Principle of Telecommunication
- Power Electronics & Drives
- Power System Analysis
- Power Transmission & Distribution
- Smart Grid & Energy Storage

**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 Signal Processing
  - Principles of Communication
  - Satellite & Optical Communication
  - Wireless Technology Applications

- **Microelectronics**
  - Advanced Wafer Fabrication Technology
  - IC Design
  - IC Testing
  - Quality & Reliability

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

- **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

**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

**DEGREE OPTIONS**

**DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING**

**FIRST YEAR**
Common First Year Modules (DASE, DCPE & DEEE)

**SECOND YEAR**
DEEE Core Modules & Electives

**THIRD YEAR**
DEEE 3rd Year specializations

**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.

**EXTRA ACTIVITIES**
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

DEEE Gold Medallist, Class of 2019
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.

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.

**COURSE HIGHLIGHTS**

**ENTRY REQUIREMENTS**

Range of Net 2019 JAE ELR2B2: 6 to 15

**AGGREGATE TYPE:** ELR2B2-C

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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.

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

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
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.

◦ An opportunity to obtain additional certification in Aviation Management.

◦ Be exposed to the latest advanced manufacturing technologies at our high-tech learning space.

ENTRY REQUIREMENTS

Range of Net 2019 JAE ELR2B2: 6 to 17
AGGREGATE TYPE: ELR2B2-C

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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 Technology & Design
• Singapore Institute of Technology
• (University of Glasgow and Newcastle University)
• 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 Automation 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)

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!

COURSE HIGHLIGHTS

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.

ENTRY REQUIREMENTS

AGGREGATE TYPE: ELR2B2-C

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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
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.
The polytechnic reserves the right to alter the information in this publication. Information is correct as of January 2020.

For the latest updates on Singapore Polytechnic, follow us on:

- @singaporepoly
- fb.com/singaporepolytechnic
- @singaporepoly
- youtube.com/singaporepolytechnic
- @singaporepoly

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

**SCHOOL OF MECHANICAL & AERONAUTICAL ENGINEERING**

- S88  Aeronautical Engineering
- S40  Common Engineering Programme
- S91  Mechanical Engineering
- S73  Mechatronics and Robotics

**SCHOOL OF ELECTRICAL & ELECTRONIC ENGINEERING**

- S90  Aerospace Electronics
- S53  Computer Engineering
- S99  Electrical & Electronic Engineering
- S42  Engineering with Business

**PLEASE CONTACT:**

- **SCHOOL OF ELECTRICAL & ELECTRONIC ENGINEERING**
  Tel: (65) 6775 1133
  Email: contactus@sp.edu.sg
  Website: www.sp.edu.sg/eee
  Facebook: facebook.com/sp.seee

- **SCHOOL OF MECHANICAL & AERONAUTICAL ENGINEERING**
  Tel: (65) 6775 1133
  Email: contactus@sp.edu.sg
  Website: www.sp.edu.sg/mae
  Facebook: facebook.com/SingPoly.MAE

For Entry Requirements
And Information For
The Following Courses:

- S88  Aeronautical Engineering
- S40  Common Engineering Programme
- S91  Mechanical Engineering
- S73  Mechatronics and Robotics