

COMMON ENGINEERING PROGRAMME

DCEP – S40



Build a Strong Foundation in Engineering, Discover your Strengths

Are you fascinated by engineering but unsure which discipline to specialise in? The Common Engineering Programme (DCEP) curriculum opens doors to an extraordinary blend of subjects, introducing you to various disciplines in the field.

In the first semester, you will be introduced to a wide range of engineering modules, where you get to dabble with mechanical equipment, electrical circuits and electronic gadgets. Through immersive experiences, you'll have the chance to discover your interests and strengths, paving the way for a future in engineering that resonates with you.

At the end of your first semester, you'll be able to make an informed decision to pursue one of seven engineering diplomas offered by SP:

- S88 Aeronautical Engineering¹**
- S90 Aerospace Electronics¹**
- S53 Computer Engineering²**
- S99 Electrical & Electronic Engineering³**
- S42 Engineering with Business²**
- S91 Mechanical Engineering²**
- S73 Mechatronics & Robotics²**

ENTRY REQUIREMENTS

Range of Net 2023 JAE ELR2B2: 4 – 19

Aggregate Type: ELR2B2-C

SUBJECT	GRADE
English Language	1 – 7
Mathematics (Elementary/Additional)	1 – 6
Any one of the following subjects:	1 – 6
<ul style="list-style-type: none"> • Biology • Biotechnology • Chemistry • Computing/Computer Studies • Design & Technology • Electronics/Fundamentals of Electronics • Physics • Science (Chemistry, Biology) • Science (Physics, Biology) • Science (Physics, Chemistry) 	

I had the opportunity to explore electrical and mechanical engineering modules within the DCEP, which played a crucial role in guiding my decision on the engineering specialisation for my diploma.

Teo Zhe Kai
Common Engineering Programme Alumnus

Note:

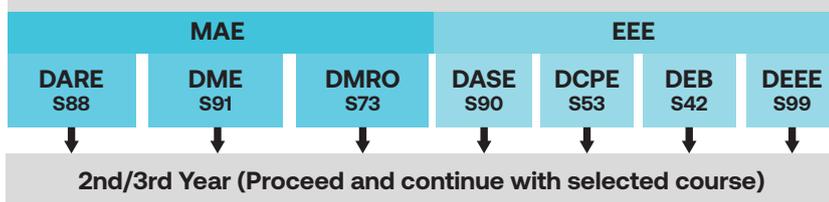
¹ Applicants should not be suffering from severe vision deficiency (including colour vision), acute hearing impairment or uncontrolled epilepsy. Interested applicants with any of these conditions are advised to contact Singapore Polytechnic for more information.

² Applicants should not be suffering from severe vision deficiency, acute hearing impairment or uncontrolled epilepsy. Interested applicants with any of these conditions are advised to contact Singapore Polytechnic for more information.

³ Applicants who have colour vision deficiency, and wish to pursue a career in electrical power engineering or as a Licensed Electrical Worker (LEW), may encounter difficulties meeting the course requirements and expectations. This condition is required by the Energy Market Authority (EMA) of Singapore. In addition, applicants should not be suffering from severe vision deficiency, acute hearing impairment or uncontrolled epilepsy. Interested applicants with any of these conditions are advised to contact Singapore Polytechnic for more information.

1st Year, 1st Semester (Common)

Towards the end of 1st Year, 1st Semester (Select 1 out of 7 courses)*



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

WHAT YOU CAN EXPECT

- Discover a wide range of engineering disciplines.
- Get an overview of the skills, competencies, and equipment pertinent to various technologies.
- Ascertain your strengths and interests through exposure to various engineering disciplines, leading to a more informed career choice.

FURTHER STUDIES

Depending on your specialisation, you can pursue an engineering degree at a local or international university.



WHAT YOU'LL STUDY

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
- Common Core Modules
- Computer Aided Drafting

- Digital Electronics 1
- Engineering Materials 1
- Introduction to Engineering Programming

- Principles of Electrical & Electronic Engineering 1

+ Semester 2

+ For DARE/DME/DMRO Option

- Common Core Modules
- Engineering Mathematics 1
- Introduction to Engineering
- Mechanics 1
- Thermofluids 1

+ For DASE/DCPE/DEEE Option

- Common Core Modules
- Digital Electronics 2
- Engineering Mathematics 1
- Introduction to Engineering & Design
- Principles of Electrical & Electronic Engineering 2

+ For DEB Option

- Common Core Modules
- Engineering Mathematics 1
- Fundamentals of Economics
- Introduction to Engineering & Design
- Principles of Marketing
- Thermofluids I

SECOND YEAR/ THIRD YEAR

Students will take the modules of the engineering course that they have opted in the first year, as well as common core 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.

Students who are interested to explore additional new skills and abilities will have the opportunity to take up to five electives. Certificates and minors will be awarded when students complete a suite of related elective modules. Please visit <https://www.sp.edu.sg/sp/education/elective-modules> for details of this elective scheme and the full list of electives.

COMMON CORE CURRICULUM

The Common Core Curriculum is designed to prepare students for a disruptive world that is ever-changing. Comprising critical human and emerging digital skills, the common core modules offer students an integral and inter-disciplinary learning experience to address the wicked problems of the world (framed by the United Nations' Sustainable Development Goals).

Through the Common Core modules, students will think critically about real-world problems, empathise with local and global communities and be challenged to effect change. For more information on the Common Core Curriculum, please visit <https://www.sp.edu.sg/sp/education/common-core-curriculum>.

All full-time diploma students are required to take a compulsory Education and Career Guidance module in SP. Students will take Education and Career Guidance – Personal Development (30 hours) in their first year.

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

