

SCHOOL OF ENGINEERING



EMBRACE INNOVATION

Just think about it – who gave us electricity, cars, planes, computers, mobile phones and the Internet? These inventions have dramatically changed the way we live and work, and the brains behind them are none other than engineers, the architects of the future!

Engineers are so central to the progress of society that they are always in great demand. Come join our School of Engineering (SEG), and you too can look forward to exciting careers and further study opportunities. At SEG, you will receive a well-balanced engineering education, and benefit from our excellent industry partnerships.

Why Engineering?

- Engineering empowers you to translate the knowledge of science and technology into ideas for new products to make the world better, faster or smarter.
- Engineering professionals enjoy attractive starting salaries and diverse career choices, ranging from management to R&D.
- With our engineering diplomas well-recognised by reputable local and overseas universities, you can build a firm foundation in engineering that will open doors for you to exciting career possibilities and further studies.

Why SEG?

- Our graduates excel wherever they go; some are forging careers with MNCs, with high starting salaries, while others start their own businesses.
- Many of our graduates further their studies in reputed local and overseas universities; many are scholars of major corporations and government agencies.
- Our innovation-based curriculum, state-of-the-art facilities and excellent industry exposure provide an enriching learning experience for you to achieve a well-balanced and highly relevant engineering education.
- Our strong industry links ensure that our courses are relevant to the needs of industry.
- We are a leader in science and engineering R&D, with many innovations that contribute to the engineering field. You will benefit from this exciting intellectual environment.
- Every year, our students excel in local and international competitions, like the Microsoft Imagine Cup, Singapore Android Developer Challenge, Code:XtremeApps, Tan Kah Kee Young Inventors' Award, Singapore Robotic Games, WorldSkills Competition and the FIRA RoboWorld Cup.

Industry-linked

Our strong industry ties will enable you to learn in a holistic environment, using the latest technologies and up-to-date curriculum. We are proud of our strong and intensive partnerships with leading technology companies, including Microsoft, Siemens, DSO National Laboratories, Festo Pte Ltd and Hewlett-Packard. We are also the only institution to host various centres supporting enterprises in Singapore, including:

- The Centre of Innovation for Electronics with SPRING Singapore
- The MedTech Concept@NYP, a biomedical hub for collaboration among biomedical companies
- Industry Communities@NYP, comprising the IC Community, Wireless Community, Embedded Systems Community and Security Technology Community, supported by EDB
- The Centre for Digital & Precision Engineering, jointly funded by EDB

Minimum Entry Requirements

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|---|-------------|
| a) English Language | Grade 1 - 7 |
| b) Elementary or Additional Mathematics | Grade 1 - 6 |
| c) A relevant Science subject | Grade 1 - 6 |

Enquiry Hotlines

Please contact us at **6550 0509/0511/0512** for enquiries on the following diplomas:

- Aeronautical & Aerospace Technology
- Biomedical Engineering
- Digital & Precision Engineering
- Manufacturing Engineering
- Mechatronics Engineering
- Nanotechnology & Materials Science

Please call **6550 0836/0400** for enquiries on the following diplomas:

- Aerospace Systems & Management
- Electrical Engineering with Eco-Design
- Electronics, Computer & Communications Engineering
- Multimedia & Infocomm Technology
- Telematics & Media Technology

You can also visit www.nyp.edu.sg/seg for more information.

JAE CODE:
C48

DIPLOMA IN **ELECTRICAL ENGINEERING WITH ECO-DESIGN**

Electric cars...solar-powered households... Possibilities? Endless. The global trend is towards developing products and services which improve the quality of life, with minimal impact on the environment. This is the very essence of eco-design.

NYP's Diploma in Electrical Engineering with Eco-Design provides you with a solid foundation in green and sustainable technologies, electrical engineering, network technology and sophisticated power generation systems. Plus, you can also gain expertise in the areas of green & smart technologies, clean energy, power systems engineering or business management. Whichever your choice, you will be well-gear'd to excel and grow in the booming market for sustainable eco-friendly engineering and business solutions.

This fits me to a T!

This is the course for you, if you aspire to:

- Be a successful engineering professional and management executive in the rapidly emerging clean and green sector
- Play a significant part in combating climate change with green technology and energy-efficient innovations for the world's markets
- Start a business of your own in green/energy/ engineering services & solutions or consultancy

What will I learn?

- Expertise in green and sustainable technologies, clean energy, energy management solutions, smart power systems engineering and electrical systems design, in addition to becoming conversant in business and management practices
- Expertise to exploit and harness new smart technologies for new business developments and opportunities
- Valuable industry project experience developing innovative green and sustainable technology products and systems
- International exposure and experience through our Overseas Industrial Attachment, Overseas Project Centre Attachment and Overseas Immersion programmes

I want a great career!

Look forward to exciting career opportunities as:

- Business/Energy Managers
- Sustainable Solutions Engineers
- Sustainable Design Specialists
- Energy Solutions Designers
- Energy/Electrical Professionals
- Energy Management Executives
- Facility Management Managers/Engineers
- R&D Professionals
- Operations Engineers
- Entrepreneurs/Technopreneurs

Uni, here I come!

With your diploma, you can further your studies at reputable local and overseas universities, such as:

Singapore

- National University of Singapore
- Nanyang Technological University

Australia

- University of New South Wales

Europe

- Imperial College London
- University of Glasgow

"Continual demand and growth in energy-intensive industry clusters and the push for energy efficiency and clean energy has led to a strong demand for competent electrical professionals and engineers with business and management skills. This demand will be further boosted as local companies expand their footprint overseas. Energy solutions are key to every country's development and we are optimistic that there will be good career opportunities for the graduates in this field."

Ms Lillian Lee
Senior Vice President
Group Human Resources
Semcorp Industries Ltd

