Where does the Ngee Ann engineering diploma lead you to?

Many exciting possibilities!

And we have our graduates to prove it – they are in industries and professions as varied as engineering, business, finance, media, health, education and creative arts. Sounds fascinating? That’s what makes Ngee Ann’s School of Engineering so unique. We don’t just teach engineering, we create exciting paths to meet diverse interests. Just tell us your inclination, and we have a pathway mapped out for you!
Have you already made up your mind which engineering discipline to choose? Or do you want to consider all possible options before choosing one that best suits you?

Do you want a course that leads to engineering specialisation? Or do you want an engineering diploma that prepares you to be a future business leader too?

Whatever your choice is, the School of Engineering (SoE) at Ngee Ann Poly has it all. Here’s an overview of the various pathways that are open to you.

**ENGINEERING SPECIALISATION PATHWAY**
- You are clear about your choice of Engineering discipline
- 18 Engineering diplomas to choose from
- Options to specialise in engineering fields
- Projects inclusive of R&D

**ENGINEERING + BUSINESS PATHWAY**
- You have not decided on the Engineering discipline and prefer a broader curriculum with business management
- Jointly offered by School of Business & Accountancy & SoE
- 9 Engineering diplomas to choose from
- Up to 25% business management curriculum
- Projects with business applications

Graduate with a Diploma in one of the 18 Engineering courses
Graduate with a Diploma in one of the 9 Engineering courses with Minor in Business Management

Plus! Graduate with a Diploma Plus Certificate that prepares you for further studies and enhances your job prospects

Go on to pursue degrees and careers in engineering and non-engineering fields e.g. finance, media, business, health, education, and creative arts
MORE CHOICES
With our newly revamped SoE curriculum that cuts across almost all our engineering diplomas, we make sure you get the best out of an engineering education. If you want to specialise in a specific engineering discipline, we have 18 diplomas from eight broad clusters to anchor you deeply in your preferred area of specialisation. See page 4 for the courses available under each cluster.

MULTIDISCIPLINARY CURRICULUM
As pioneers of broad-based education among local polytechnics, we provide students with a multidisciplinary curriculum that goes beyond their chosen area of study. Our approach also encourages innovation and entrepreneurship, thus preparing you to be a versatile and enterprising professional. Beyond your core discipline, you can pursue non-engineering electives such as business, media, eco-tourism and even events and promotion.

GREATER FLEXIBILITY WITH BUSINESS MANAGEMENT
“Can I be an engineer and a business leader too?”

Yes, you can! With our new Engineering with Business Management programme (EBM), you will become a highly versatile professional who will thrive in diverse fields. Jointly offered by SoE and the School of Business & Accountancy (BA), EBM’s curriculum is infused with a strong business component of up to 25%.

Under EBM, you also get to choose your engineering discipline only at the end of the first semester. You will have a taste of the various fields of engineering before making an informed decision. See page 8 for more details on EBM.
<table>
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<tr>
<th>AREAS OF INTEREST</th>
<th>COURSES</th>
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<tr>
<td><strong>AEROSPACE</strong></td>
<td>Aerospace Electronics (N75), Aerospace Technology (N65)</td>
<td>Electrical Engineering, Electronic &amp; Computer Engineering, Mechanical Engineering, Mechatronic Engineering, Engineering with Business Management Programme</td>
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<tr>
<td><strong>BIOMEDICAL</strong></td>
<td>Biomedical Engineering (N60)</td>
<td>Electronic &amp; Computer Engineering, Mechanical Engineering, Mechatronic Engineering, Engineering with Business Management Programme</td>
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<td><strong>DESIGN, MEDIA &amp; INFOCOMM</strong></td>
<td>Audio-visual Technology (N76), Network Systems &amp; Security (N64), Product Design &amp; Innovation (N68)</td>
<td>Engineering with Business Management Programme</td>
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<td><strong>ELECTRICAL, ELECTRONICS &amp; COMPUTER</strong></td>
<td>Electrical Engineering (N43), Electronic &amp; Computer Engineering (N44)</td>
<td>Aerospace Electronics, Audio-visual Technology, Biomedical Engineering, Engineering with Business Management Programme</td>
</tr>
<tr>
<td><strong>ENVIRONMENT &amp; ENERGY</strong></td>
<td>Clean Energy Management (N84), Environmental &amp; Water Technology (N74), Sustainable Urban Design &amp; Engineering (N89)</td>
<td>Electrical Engineering, Mechanical Engineering</td>
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<tr>
<td><strong>LOGISTICS</strong></td>
<td>International Supply Chain Management (N80), Logistics Management (N58)</td>
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<tr>
<td><strong>MARINE, MECHANICAL &amp; MECHATRONICS</strong></td>
<td>Marine &amp; Offshore Technology (N42), Mechanical Engineering (N41), Mechatronic Engineering (N50)</td>
<td>Aerospace Technology, Electronic &amp; Computer Engineering, Electrical Engineering, Engineering with Business Management Programme</td>
</tr>
<tr>
<td><strong>PROPERTY</strong></td>
<td>Leisure &amp; Business Facilities Management (N40), Real Estate Business (N48)</td>
<td>Sustainable Urban Design &amp; Engineering, Electrical Engineering, Mechanical Engineering</td>
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Graduate with Diploma Plus
Every SoE student has an opportunity to participate in the Diploma Plus Programme (DPP). The DPP will better prepare you for university education and widen your career opportunities. Choose from a plethora of engineering and non-engineering clusters such as Economics & Financial Applications, Leisure & Retail Management, Biomedical Engineering and Advanced Engineering Mathematics. The complete list of the clusters on offer is below.

**ENGINEERING CLUSTERS**
- Advanced Engineering Mathematics
- Aerospace Design
- Aerospace Electronics
- Applied Physics
- Aviation Fundamentals
- Biomedical Engineering
- Computer-Aided Design Skills
- Computer & Communication Systems
- Computing Methodology
- Electrical Control & Measurement
- Environmental Innovations
- Industrial Control
- Industrial Electronics
- Information Technology
- Mechanical Technology
- Mechatronics Application Skills
- Microelectronics
- Network Systems & Security
- Robotics
- Stage Management & Technology
- Workplace Safety & Health

**NON-ENGINEERING CLUSTERS**
- Economics & Financial Applications
- Leisure & Retail Management
- Management

**ENRICHING LEARNING EXPERIENCE**
The biggest academic school in Ngee Ann with close to 6,500 full-time students, SoE provides one of the best learning environments that will inspire you to imagine, innovate and discover. Our state-of-the-art learning facilities and Centres of Innovation, as well as our internship and overseas immersion programmes will give you a mind-broadening, real-world learning experience. Our strong links with key industry players and educational partners offer exclusive opportunities to give you an added edge in your learning.
DIVERSE OPPORTUNITIES BRIGHT PROSPECTS

Our engineering diplomas have opened doors to careers and further education in both engineering and non-engineering fields such as finance, media, business, health, education, and creative arts.

Our graduates are also well sought-after by the industry. The annual polytechnic graduate employment survey has shown that close to 90% of SoE graduates secure gainful employment within six months of graduation and enjoy good starting salaries.

SoE has a track record of nurturing successful and well-rounded graduates with many of them excelling in their university studies and careers in various fields. Here are just some examples:

A Successful Technopreneur

Darran Nathan, who led a team in developing a supercomputing platform when he was in SoE, founded an IT start-up in 2000 with his team-mates. Today, his company Progeniq - which has an office in California - offers hardware and software solutions for the high-performance computing industry. Darran has recently been nominated for BusinessWeek’s Asia’s Best Young Entrepreneur 2009.

Darran Nathan
A Global Citizen in the Corporate World

After completing his Masters of Engineering at the prestigious Imperial College (UK) in June 2009, Jamin Teo embarks on an exciting career in the financial world. He now lives in London and works as a technologist at Goldman Sachs, a leading global financial services firm.

An Engineer with a Passion

Shaan Akthar recently graduated from University of New South Wales with a Bachelor degree in Aerospace Engineering. Besides bagging first-class honours, Shaan also won two awards for his final-year design project – The Warwick Slade Royal Aeronautical Society Prize for the top team performance in his Aerospace Design course, plus the prestigious Royal Aeronautical Society medal for being the top student in the team. Shaan is now pursuing his passion in aerospace design as an engineer at jet engine maker Pratt & Whitney.