In your view, the world, and everything in it, is intricately designed. You have a natural tendency to approach problems with a design focus. And your solutions are often design-based because to you, everything should start with a good design.
At Ngee Ann Poly’s School of Design & Environment (DE), we harness your talent for design and sense of empathy for those you are designing for. This starts with training your perceptiveness to things, people, actions and your surroundings. Simply put, the designer aims to make the world a better place to live in and we aim to help you get there.

You’ll be surprised at the seemingly complex processes required to arrive at simple but brilliant solutions. Here at DE, we inculcate this design methodology across our 4 diplomas. It will be so fundamental and pervasive in everything you do, that you will, in effect, live design.

PRODUCT DESIGN & INNOVATION (PDI)
Conceptualise new & innovative products or re-design everyday objects to make them more eco-friendly, functional and attractive.

SUSTAINABLE URBAN DESIGN & ENGINEERING (SDE)
Create a sustainable environment that is in harmony with nature and design spaces that enhance the quality of life.

HOTEL & LEISURE FACILITIES MANAGEMENT (HLFM)
Manage hotels & leisure facilities to improve their operational efficiency and service standards while incorporating green technologies and best practices.

REAL ESTATE BUSINESS (REB)
Market & manage commercial and residential properties to help owners maximise the value of their assets.
Building Your Project Portfolio

Through real-life projects, you will get to see the concepts you learn in the classroom come to life. At DE, we equip you with the necessary skills and knowledge to design a better community for all. What’s more, you will graduate with an impressive portfolio!

Fokus on success
Designed by PDI graduate Muhamad Zulkifie, the Fokus desk’s organisational storage features keep the desktop tidy, so users can focus on their work. It is also light and ergonomically designed, making it highly portable. Win-win.

Convenient and chic
Mothers can now breast-feed their baby anywhere they want with Eve, a fashionable baby-carrier designed by PDI graduate Yeo Limin. So thoughtful!

Redesigning old spaces
Showing off her keen sense of design and the environment, SDE graduate Marya Alwani designed a museum as an extension of the natural topography of Pearl’s Hill and the existing Lower Barracks at the foot of the hill. As a result, she created new gallery spaces and unravelled the restricted areas of the Lower Barracks.

In the zen
Not only is bamboo robust, it also possesses contemporary qualities. PDI graduate Toh Kwang Chuan paired the zen-like material together with polished aluminum to create the sleek A Series Lamp.

Getting creative
Inspiration is everywhere – as evident from SDE graduate Yew Zi Quan’s design strategy. He aimed to restore Upper Barracks at Pearl’s Hill to its former glory with a new extension that is inspired by the Dou-Gong, a structural element in Chinese architecture.
Where you study and play can make a huge difference to your learning journey, especially with facilities designed to complement your classroom sessions.

**Integrated Facilities Management Lab (IFML)**

Used by HLFM students, the IFML comprises a fully fitted-out hotel suite and even a simulated fire protection facility! Here, you will learn how to manage and operate sophisticated building systems.

**Design studios**

Teamwork takes on whole new levels with the versatility of the studios. As the studio layout is designed for collaborative learning, you can get immediate critique for your drawings and models.

**Prototyping workshop**

Ranging from the traditional ones such as the handsaws to more nifty tools, such as the laser cutting machine and 3D printer, you will be able to create prototypes of your projects using materials of your choice.

**Integrated Building Technology Lab (IBTL)**

The IBTL is an aspiring urban designer’s dream. Surround yourself with sophisticated and user-friendly equipment to test the quality of soil and water, in order to better understand our environment.

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“Ngee Ann’s REB course helped me build a firm foundation in property knowledge before I pursued my bachelor’s degree in Estate Management. I was able to catch up with the syllabus in university, upon direct entry into the second year. Plus, the six-month internship I went through in REB allowed me to handle real-life scenarios.”

Heng Suek Lee
REB graduate, Class of 2013
Bachelor of Science (Estate Management) (Honours) Class of 2015 at Northumbria University, UK

“Success is not just about being at the top. I believe that as long as self-improvement has been achieved through the learning journey, one has succeeded.”

Wang Jiale
HLFM graduate, Class of 2012
Recipient of the BCA-Industry Built Environment Sponsorship Award 2014
Currently pursuing the Bachelor of Science (Project and Facilities Management) at National University of Singapore

“My NP education definitely helped to lay a strong foundation for me to pursue my degree, as well as provided me the confidence and knowledge to step into the industry. Seeing as my time in NP also trained me to be global ready, I coped really well on my six-month university exchange programme in Czechoslovakia!”

Fern Li Hui
SDE graduate, Class of 2014
Currently pursuing the Bachelor of Engineering (Civil) at Nanyang Technological University

“The PDI curriculum fostered and prepared me confidently for the design industry. My defining experience was the opportunity to embark on a valuable and enriching three-month overseas exchange programme in China. I also had dedicated lecturers who guided me through my PDI coursework.”

Alden Koh
PDI graduate, Class of 2011
Currently working as an industrial designer with ASUS Design Singapore
What makes good design? An innovation that is equal parts attractive, practical and functional, and is able to differentiate itself from its competitors. Learn how popular products in the market become success stories, and design your very own smart innovation.

The Diploma in Product Design & Innovation (PDI) integrates three important disciplines of product design – Arts, Engineering and Business. You will get to explore design processes at every stage, from idea conceptualisation to realisation, and graduate with quality design folios, including working prototypes. With our studio-based learning approach, you will work in modern design studios and develop prototypes using state-of-the-art model making equipment and facilities.

In your first year, you will be introduced to fundamental design principles as well as engineering concepts that are applied to the design process. You will be taught to use computer-aided design software. In your second year, apply what you have learnt to actual product design projects. You will then progress to more advanced product innovation and development projects in your final year when you learn about the business management aspects of product development. You will also go on a three-month internship at leading companies. Under our partnership with Motorola Solutions, PDI students will also get to design products that enhance public safety. Top designs will be given awards by Motorola.

What’s more, we’ve got local and overseas field trips to design centres and museums locally and abroad, such as in Australia, so your learning journey is nothing short of fulfilling.
PDI graduates can look forward to good employment prospects in international design companies such as Motorola Solutions, which have Singapore offices, as well as local enterprises such as We Are Perspective, Singapore Mint and ST Kinetics that design and manufacture products or provide product design and development services.

You will also be able to explore creative professions in furniture design, packaging design and product merchandising. If you’ve got a natural flair for design, you can even start your own design consultancy or design-and-manufacture firm after gaining a few years of experience.

CAREER ENTRY REQUIREMENTS

For the most up-to-date information on NP’s Diploma in Product Design & Innovation, log on to www.np.edu.sg/pdi

CONTACT US

As a PDI graduate, you can pursue related degree courses at both local and overseas universities. You may enjoy advanced standing from many universities, including:

- Nanyang Technological University
  - Bachelor of Fine Arts in Product Design
  - Digital Animation, Digital Filmmaking, Digital Imaging, or Visual Communication
  - Bachelor of Engineering in Mechanical Engineering

- National University of Singapore
  - Bachelor of Arts in Industrial Design
  - Bachelor of Engineering in Mechanical Engineering

- Singapore University of Technology & Design
  - Bachelor of Engineering in Engineering Product Development

- University of Strathclyde (UK)
  - Bachelor of Science in Product Design & Innovation
  - Bachelor of Engineering in Product Design Engineering

- University of the West of England
  - Bachelor of Science in Creative Product Design
  - Bachelor of Science in Product Design Technology

- Monash University (Australia)
  - Bachelor of Industrial Design
  - University of New South Wales (Australia)
  - Bachelor of Industrial Design

ENTRY REQUIREMENTS

AGGREGATE TYPE ELR2B2-D

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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You must also have sat for a Science or Art /Higher Art or Design & Technology or Food & Nutrition or a relevant OSIE /Applied Subject and fulfill the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

Candidates with severe vision deficiency should not apply for the course.

WHAT YOU WILL LEARN

YEAR 1

- History & Principles of Design
- Visual Thinking & Design Sketching
- Materials & Design Applications 1
- Conceptual Design & Model Making
- Design Presentation & Methods
- Computer Aided Design 1
- Manufacturing Processes
- Applied Mathematics 1 & 2
- Engineering Sciences for Design 1
- Career & Professional Preparation I
- Innovation Toolkit^
- Sports & Wellness^
- Communication & Contemporary Issues^

YEAR 2

- Product Aesthetics & Ergonomics 1 & 2
- Product Design Studio 1 & 2
- Computer Aided Design 2
- Materials & Design Applications 2
- Engineering Sciences for Design 2
- Component Design & Development
- Business & Project Management
- Career & Professional Preparation II
- Any two IS electives^

YEAR 3

- Design for Manufacturability
- Entrepreneurship & Business Plan
- Product Design Studio 3
- Capstone Project
- Three-month Internship
- World Issues: A Singapore Perspective^
- Any one IS elective^

A better world with design

At the core of every PDI student’s projects lies the desire to improve one’s community through design-centred solutions. For PDI graduate Ummi Kaltsum, this means allowing easier gardening for residents in HDB flats. Her project, titled B2B, lets plant owners have a simpler organisation of their pots of plants, using a simple plant stand that hangs on the ledge of the parapet walls along HDB corridors. Doesn’t her sleek innovation inspire green thumbs?
WHAT THE COURSE IS ABOUT

If building an eco-friendly city is what you’ve always dreamed of, you could be the next architect to help shape Singapore’s future landscape, while improving the quality of urban living. You’re so much closer to your dream when you sign up for the Diploma in Sustainable Urban Design & Engineering (SDE).

You will learn about urban planning, conservation and refurbishment, and be trained in the design and construction of eco-friendly buildings. You will get to explore town planning frameworks such as HDB’s Eco-Town@Punggol and URA’s Jurong Lakeside District. Along with this, you will go on off-campus learning and study tours to discover more about urban renewal initiatives in Singapore. Plus, you will build your green expertise with modules such as Sustainable City Planning and Green Building Technologies.

In your second and third year, you can choose to specialise in either Architecture or Sustainable Technologies.

Architecture Specialisation: Attend architectural design studio classes to develop your acumen towards creative thinking, and enhance your knowledge on architectural form, spatial planning and interior design.

Sustainable Technologies Specialisation: Learn about the design of eco-friendly buildings. Embark on local and overseas study trips to further deepen your structural and civil engineering design capabilities. Develop comprehensive awareness of industry trends by listening to guest speakers from the industry.

Finally, you will round off your third year with a three-month internship to apply what you have learnt in the real world!

WHAT YOU WILL LEARN

YEAR 1

– Sustainable Building Design
– Sustainable City Planning
– Design Communications
– Building Behaviour Studies 1 & 2
– Introduction to Building Systems
– Computer Aided Design
– Structure & Fabric
– Engineering Mathematics 1 & 2
– Career and Professional Preparation I
– Innovation Toolkit
– Sports & Wellness
– Communication & Contemporary Issues

YEAR 2

– Integrated Building Systems
– Workplace Safety & Health
– Career & Professional Preparation II
– Any two IS electives

ARCHITECTURE SPECIALISATION

– Design Studio 1 & 2
– Architectural Materials & Technology I & 2
– Computer Aided Modeling for Architecture
– History & Theory of Western Architecture
– Computer Aided Rendering & Presentation

SUSTAINABLE TECHNOLOGIES SPECIALISATION

– Structural Design 1
– Geomatics
– Infrastructure Works
– Computer Aided Modeling
– Engineering Mathematics 3
– Water Resources Technology
– Measurement & Costing

YEAR 3

– Project Management
– World Issues: A Singapore Perspective
– Any one IS elective
– Three-month Internship

ARCHITECTURE SPECIALISATION

– Design Studio 3 & 4
– History & Theory of Asian Architecture
– Fundamentals of Landscape Architecture
– Professional Practice

SUSTAINABLE TECHNOLOGIES SPECIALISATION

– Soil Science
– Structural Design 2
– Water Reclamation Technology
– Green Building Technologies
– Sustainable Technologies Project
– Structural Assessment & Improvement

WHAT YOU WILL LEARN

– Sustainable Building Design
– Sustainable City Planning
– Design Communications
– Building Behaviour Studies 1 & 2
– Introduction to Building Systems
– Computer Aided Design
– Structure & Fabric
– Engineering Mathematics 1 & 2
– Career and Professional Preparation I
– Innovation Toolkit
– Sports & Wellness
– Communication & Contemporary Issues

Interdisciplinary Studies (IS) electives are taken on top of core discipline modules and account for up to 15 per cent of curriculum hours. They cover diverse areas such as the arts & humanities, business, design, and science & technology.
Learning on-site at leading hotels, resorts, and food and beverage establishments

Internships with industry partners such as Marina Bay Sands, Resorts World Sentosa and City Developments Limited

Practice-oriented curriculum that covers both front-office and back-of-the-house operations management

Study trip to regional countries such as Hong Kong and Macau

Additional certification as Qualified Fire Safety Manager upon graduation

Who says origami is just for kids? These nifty craft inspired paper sculptures were part of a three-day workshop on the principles of architectural and structural design, which was conducted by landscape architect Mr Ankon Mitra, as part of DE’s Designer-in-Residence Series. Challenged to apply geometric principles to come up with surreal origami landscapes that reflected nature, students learnt how to stabilise materials provided and use them appropriately in architecture. All SDE students under the Architecture specialisation will participate in this initiative.

CONTACT US

For the most up-to-date information on NP’s Diploma in Sustainable Urban Design & Engineering, log on to www.np.edu.sg/sde

Learn from the best

More countries are turning towards sustainable urban development. As such, there is a growing demand for “green professionals” in the building industry. Besides taking up jobs in civil & structural design and project management, graduates who specialise in Architecture can also seek employment in architectural firms.

SDE graduates who specialise in Sustainable Technologies will be able to assist civil engineering consultants, property developers and contractors in the design and construction of buildings and infrastructure.

Upon graduation, you can pursue a degree in related fields such as architecture, civil engineering, construction management, project management and facilities management.

You can be granted advanced standing at both local and overseas universities such as:

- Nanyang Technological University
  - Bachelor of Engineering in Civil Engineering
  - National University of Singapore
  - Bachelor of Engineering in Civil Engineering
  - Bachelor of Arts in Architecture
- RMIT University (Australia)
  - Bachelor of Architectural Design
- University of Technology, Sydney (Australia)
  - Bachelor of Design in Architecture
- University of Strathclyde (UK)
  - Bachelor of Science in Architecture Studies
  - Bachelor of Engineering in Civil Engineering
- Heriot-Watt University (UK)
  - Bachelor of Engineering in Architecture Engineering
- University of Newcastle upon Tyne (UK)
  - Bachelor of Arts in Architecture

ENTRY REQUIREMENTS

AGGREGATE TYPE ELR2B2-C
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You must also fulfil the aggregate computation requirements.

* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CAREER

More countries are turning towards sustainable urban development. As such, there is a growing demand for “green professionals” in the building industry. Besides taking up jobs in civil & structural design and project management, graduates who specialise in Architecture can also seek employment in architectural firms.

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  - Bachelor of Arts in Architecture

CONTACT US

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Learn from the best

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WHAT THE COURSE IS ABOUT

If you’re thrilled at the prospect of working at reputable hotels as a management trainee upon graduation, as well as learning about the intricacies in managing modern facilities, you’re well suited for the Diploma in Hotel & Leisure Facilities Management (HLFM).

The course will provide you with a strong foundation in managing and operating hotels and leisure facilities. It covers a wide scope of areas ranging from front-office and back-of-the-house operations to food and beverage outlets, security, and housekeeping.

A practice-oriented diploma, HLFM provides experiential learning right from the start. In your first year, you will visit local hotels and attend off-campus workshops. To top it off, you will go on a cruise learning lab, where you can put into practice what you have learnt in class and get a better understanding of the hospitality industry.

In your second year, you will learn about managing shopping malls and integrated resorts, psychology and consumer behaviour, essential building elements and security management. You will also get to experience a ‘studycation’ at an integrated resort where lessons will be conducted by its management.

In your final year, gain valuable work experience through practical enhanced internships with industry partners, such as Marina Bay Sands, Resorts World Sentosa, Swissotel The Stamford, Singapore Marriott Hotel, City Developments Limited, Frasers Hospitality, Reuters, AsiaMalls Management and CapitaMalls Asia. You can also undertake a final-year project.

In addition, all HLFM graduates will be awarded a Fire Safety Manager Certificate that allows them to be registered as Qualified Fire Safety Managers.

WHAT YOU WILL LEARN

YEAR 1
- Front Office Management
- Food & Event Management
- Housekeeping & Aesthetics
- Customer Relationship Management
- Mechanical Facilities
- Electrical Facilities
- Environmental Health
- Business & Contract Law
- Principles of Accounting
- Economics
- Career and Professional Preparation I
- Innovation Toolkit^*
- Sports & Wellness**
- Communication & Contemporary Issues^*

YEAR 2
- Shopping Mall Management
- Introduction to Interior Design
- Building Elements
- Computer Aided Design
- Green Building & Energy Management
- Integrated Resort Amenities Management
- Principles of Management
- Security Management & Business Continuity
- Facilities Maintenance & Building Automation
- Psychology & Consumer Behaviour
- Career and Professional Preparation II
- Any two IS electives^*

YEAR 3
- Building Maintenance & Refurbishment
- Marketing & Public Relations
- Hotel Operations & Management
- Fire Safety Management
- Project Planning & Management
- World Issues: A Singapore Perspective^*
- Any one IS elective^*
- Six-month Internship OR Three-month Internship and Final-Year Project

This Diploma in Hotel & Leisure Facilities Management (HLFM) is a practice-oriented programme. A practice-oriented diploma, HLFM provides experiential learning right from the start. In your first year, you will visit local hotels and attend off-campus workshops. To top it off, you will go on a cruise learning lab, where you can put into practice what you have learnt in class and get a better understanding of the hospitality industry.

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In addition, all HLFM graduates will be awarded a Fire Safety Manager Certificate that allows them to be registered as Qualified Fire Safety Managers.

FURTHER STUDIES

As a well-recognised diploma, HLFM allows its graduates to continue their education in both local universities and many overseas universities with credit exemptions.

Graduates who apply to study in related degree courses will be given additional credit exemptions. These related degree courses include:

- National University of Singapore (NUS)
  - Bachelor of Science (Project & Facilities Management)
  - Bachelor of Science (Real Estate)
- Singapore Institute of Technology (SIT)
- Bachelor of Engineering in Sustainable Infrastructure Engineering (Building Services)
- University of Nevada, Las Vegas (US)
- Bachelor of Science Hospitality Management Major
- University of Melbourne (Australia)
- Bachelor of Environment
- University of New South Wales (Australia)
- Bachelor of Construction Management and Property

**Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CAREER

HLFM graduates can work as a facility officer, property executive, business development executive, front office executive, convention sales executive, or guest relations executive. You also have the best of both worlds – with your training in both front-of-the-house and back-of-the-house operations, you have an added advantage in gaining employment in the facilities management and hospitality industry.

HLFM graduates are also eligible to apply for the SkillsFuture Earn and Learn Programme (ELP) in the hospitality management or facilities management sector. The ELP will allow them to complete a specialist diploma to deepen their knowledge and enhance their career progression while they are working at a participating organisation.

ENTRY REQUIREMENTS

To be eligible for consideration, candidates must have the following GCE ‘O’ Level examination (or equivalent) results.

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You must also fulfil the aggregate computation requirements.

AGGREGATE TYPE ELR2B2-C

For the most up-to-date information on NP’s Diploma in Hotel & Leisure Facilities Management, log on to www.np.edu.sg/hlfm

Faith Tan, a final-year HLFM student who interned at Fairmont Singapore & Swissotel The Stamford

"Not only did HLFM prepare me for the technical part of the hotel industry, but it also taught me about professional etiquette and customer relationship building. I learnt from my enriching internship that every little thing influences the guest experience. I managed to step out of my comfort zone, and gained both knowledge and interpersonal skills."

Faith Tan, a final-year HLFM student who interned at Fairmont Singapore & Swissotel The Stamford
WHAT THE COURSE IS ABOUT

Do you have your pulse on the property beat? Are you a quick-thinker with a keen sense of intuition for trends in the fast-paced industry of land planning and estate redevelopment? Look no further – the Diploma in Real Estate Business (REB) is well-equipped to train you in both the business and management aspects of the industry.

The course will give you the necessary skillsets to help property owners, investors and tenants maximise the use of their properties to achieve the highest financial returns. You will also play a role in the strategic marketing and management of shopping centres, integrated resorts and theme parks as well as the valuation of residential, office and retail properties.

In your first year, you will learn the fundamentals of real estate business and building management through modules such as Real Estate Market Research and Building Technology.

In your second year, you will move on to learn about the management, marketing, financial and legal aspects of real estate. You will also gain an appreciation of interior design and learn how to conduct property valuation.

In your final year, you will be taught real estate investment alongside other aspects of building management such as building maintenance and refurbishment and quantity surveying. You will also undertake an internship or an industry-based project.

Plus, you may get to go on overseas study tours to major cities such as Shanghai, Hong Kong and Melbourne. There will also be local field trips that let you gain industry insights from property gurus.

WHAT YOU WILL LEARN

YEAR 1

- Introduction to Real Estate Business
- Real Estate Market Research
- Applied Statistics for Real Estate
- Building Technology
- Mechanical Facilities
- Electrical Facilities
- Environmental Health
- Economics
- Principles of Accounting
- Principles of Law
- Career and Professional Preparation I
- Innovation Toolkit
- Sports & Wellness
- Communication & Contemporary Issues

YEAR 2

- Property Management
- Real Estate Marketing
- Real Estate Law
- Real Estate Finance
- Computer Aided Design
- Introduction to Interior Design
- Property Valuation
- Advanced Building Technology
- Project Management
- Urban Planning & Economics
- Career & Professional Preparation II
- Any two IS electives

YEAR 3

- Building Maintenance & Diagnostics
- Building Refurbishment
- Real Estate Investment
- Client Relationship Management
- Building Quantities & Costing
- World Issues: A Singapore Perspective
- Any one IS elective
- Six-month Internship OR Three-month Internship and Final-Year Project

Interdisciplinary Studies (IS) electives are taken on top of core discipline modules and account for up to 15 per cent of curriculum hours. They cover diverse areas such as the arts & humanities, business, design, and science & technology.
CAREER

With this diploma, you can find jobs in all sectors of the real estate market and building industry. You will also be able to work with finance and investment companies that deal in property assets.

You can take on the role of an executive overseeing property investment, management, marketing, planning and redevelopment, finance and housing loans, property valuation and much more. Alternatively, you can become a project supervisor or quantity surveyor.

Potential employers include government departments, regulatory authorities and statutory boards, banks, property development and investment companies, real estate consultancies, town councils, construction companies and chartered surveying practices.

With a few years of experience under your belt, you can also apply for an Estate Agent Licence issued by the Council for Estate Agencies.

FURTHER STUDIES

You may enjoy up to one year of module exemptions when you pursue degrees in real estate or project & facilities management at the National University of Singapore. Overseas universities also accept REB graduates into related bachelor’s degree programmes with advanced standing:

- Cambridge University (UK)
  - Bachelor of Art in Land Economy
- University College London (UK)
  - Bachelor of Science (Planning and Real Estate)
- University of Reading (UK)
  - Bachelor of Science in Real Estate
  - Bachelor of Science in Investment & Finance in Property
- Heriot-Watt University (UK)
  - Bachelor of Science in Real Estate Management (Honours)
- University of Melbourne (Australia)
  - Bachelor of Environment in Property
  - Bachelor of Business Management in Real Estate and Development
- University of South Australia (Australia)
  - Bachelor of Business in Property
  - University of Auckland (New Zealand)
  - Bachelor of Property

ENTRY REQUIREMENTS

AGGREGATE TYPE ELR2B2-C

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* Candidates with English as a second language (EL2) must have attained a minimum grade of 6.

CONTACT US

For the most up-to-date information on NP’s Diploma in Real Estate Business, log on to www.np.edu.sg/reb

"Coming from REB makes my current learning journey easier. Besides being able to relate to what my professors are teaching, I’m also able to share what I’ve learnt in NP with my peers whenever they need help. Plus, the balance between business and engineering in REB enhanced my understanding of the real estate industry!"

Wilson Tan
REB graduate, Class of 2011
Pursuing a degree in Real Estate at NUS