School of Architecture & the Built Environment

- Architecture • Civil Engineering with Business • Environmental Management & Water Technology • Hotel & Leisure Facilities Management • Integrated Events & Project Management • Landscape Architecture •
The training provided by the School of Architecture and the Built Environment transforms students into competent, versatile and skilled graduates who are able to meet the challenges in the industry and professions by assisting architects, event managers, civil & structural engineers, environmental & water engineers, landscape architects, builders, property and facilities managers, or hotel managers at the middle management.

Strong support from well-trained graduates is crucial for the design and successful development and maintenance of buildings, infrastructure and environmental engineering projects in the high quality environment that Singapore envisions and which facilitates the vibrant lifestyle expected in an ‘experience’ economy.
**A Clear Advantage**

The school offers well equipped and excellent laboratory facilities and design studios to provide students with hands-on experiential learning.

Students are also assigned to private or public sector firms / organisations for their industrial training programme (ITP). They can also gain international exposure through the overseas ITP.

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**Entry Requirements - ‘O’ Levels**

<table>
<thead>
<tr>
<th>Subjects</th>
<th>DARCH</th>
<th>DCEB*</th>
<th>DEWT</th>
<th>DHLFM</th>
<th>DEPM</th>
<th>DLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language</td>
<td>1 – 7</td>
<td>1 – 7</td>
<td>1 – 7</td>
<td>1 – 7</td>
<td>1 – 7</td>
<td>1 – 7</td>
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<tr>
<td>Mathematics (Elementary / Additional)</td>
<td>1 – 7</td>
<td>1 – 6</td>
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<td>1 – 6</td>
<td>1 – 6</td>
<td>1 – 7</td>
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<tr>
<td>Physical Science</td>
<td></td>
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<td>1 – 6</td>
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<tr>
<td>Science (Physics, Chemistry)</td>
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<td></td>
<td>1 – 6</td>
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<tr>
<td>Combined Science</td>
<td>1 – 6</td>
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<td></td>
<td>1 – 6</td>
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<tr>
<td>Physics</td>
<td></td>
<td></td>
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<td>1 – 6</td>
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<td></td>
</tr>
<tr>
<td>Science (Physics, Biology)</td>
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<td></td>
<td>1 – 6</td>
<td></td>
<td></td>
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<tr>
<td>Chemistry</td>
<td></td>
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<td></td>
<td>1 – 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science (Chemistry, Biology)</td>
<td></td>
<td></td>
<td></td>
<td>1 – 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>1 – 6</td>
<td></td>
<td></td>
<td>1 – 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design &amp; Technology</td>
<td>1 – 6</td>
<td></td>
<td></td>
<td>1 – 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Electronics</td>
<td>1 – 6</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Art / Art &amp; Design</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1 – 6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Higher Art</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1 – 6</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* Applicants must ensure that they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.

# In order to be eligible for admission, you must also have sat for one of the following subjects:

- Additional Combined Science
- Additional Science
- Biology
- Chemistry
- Combined Science
- Computer Studies
- Creative 3D Animation

- Design & Technology
- Engineering Science
- Food & Nutrition
- Fundamentals of Electronics
- General Science
- Human & Social Biology
- Integrated Science

- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

@ In order to be eligible for admission, you must also have sat for one of the following subjects:

- Additional Combined Science
- Additional Science
- Art / Art & Design
- Biology
- Chemistry
- Combined Science
- Computer Studies
- Creative 3D Animation

- Design & Technology
- Engineering Science
- Food & Nutrition
- Fundamentals of Electronics
- General Science
- Human & Social Biology
- Integrated Science

- Media Studies (EL)
- Physical Science
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)
- Science (Physics, Chemistry, Biology)
<table>
<thead>
<tr>
<th>Courses</th>
<th>Relevant NITEC Courses</th>
<th>Minimum GPA</th>
<th>Courses</th>
<th>Relevant Higher NITEC Courses</th>
<th>Duration (Yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>• Building Drafting (Architectural)^ / Architectural Drafting^</td>
<td>3.0#</td>
<td>Architecture+</td>
<td>• Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Landscape Architecture</td>
<td>• Facility Technology (Landscaping Services)</td>
<td></td>
<td>Landscape Architecture+</td>
<td>• Electronics Engineering / Industrial Electronics Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Product Design</td>
<td></td>
<td></td>
<td>• Game Design &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Space Design (Architecture)</td>
<td></td>
<td></td>
<td>• Information Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Space Design (Interior &amp; Exhibition)</td>
<td></td>
<td></td>
<td>• Manufacturing Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Facility Technology (Mechanical &amp; Electrical Services)</td>
<td></td>
<td></td>
<td>• Mechanical &amp; Electrical Engineering Design / Mechanical &amp; Electrical Drafting &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering with Business@</td>
<td>• Building Drafting (Architectural)^ / Architectural Drafting^</td>
<td>3.0</td>
<td>Civil Engineering with Business@</td>
<td>• Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Building Drafting (Civil &amp; Structural)^ / Civil &amp; Structural Drafting^</td>
<td></td>
<td></td>
<td>• Mechatronics Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Building Services Technology / Building Servicing^ / Building Services Technology (Air-Conditioning &amp; Refrigeration) / Building Services Technology (Mechanical &amp; Electrical Services) / Facility Technology (Air-Conditioning &amp; Refrigeration)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>• Space Design (Architecture)</td>
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<tr>
<td></td>
<td>• Facility Technology (Mechanical &amp; Electrical Services)</td>
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</tr>
<tr>
<td>Environmental Management &amp; Water Technology</td>
<td>• Facility Technology (Mechanical &amp; Electrical Services)</td>
<td>3.0</td>
<td>Environmental Management &amp; Water Technology</td>
<td>• Chemical Technology</td>
<td>3</td>
</tr>
</tbody>
</table>
### NITEC Qualification (with at least GCE ‘N’ levels) Higher NITEC Qualification
All eligible Higher NITEC holders must have a minimum of GPA 2.0

<table>
<thead>
<tr>
<th>Courses</th>
<th>Relevant NITEC</th>
<th>Minimum GPA</th>
<th>Courses</th>
<th>Relevant Higher NITEC</th>
<th>Duration (Yrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hotel &amp; Leisure Facilities Management</td>
<td>• Building Drafting (Architectural)^ / Architectural Drafting^</td>
<td>3.0</td>
<td>Hotel &amp; Leisure Facilities Management</td>
<td>• Electrical Engineering</td>
<td>GPA ≥ 3.5 GPA&lt;3.5</td>
</tr>
<tr>
<td></td>
<td>• Building Services^ / Building Services Technology / Building Services Technology (Air-Conditioning &amp; Refrigeration)^ / Building Services Technology (Mechanical &amp; Electrical Services) / Facility Technology (Air-Conditioning &amp; Refrigeration)</td>
<td></td>
<td></td>
<td>• Electronics Engineering / Industrial Electronics Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Building Drafting (Civil &amp; Structural)^ / Civil &amp; Structural Drafting</td>
<td></td>
<td></td>
<td>• Hospitality Operations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>• Facility Technology (Mechanical &amp; Electrical Services)</td>
<td></td>
<td></td>
<td>• Information Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>For those under the ITE non-modular system, distinction in either Practical or Theory is required.</td>
<td></td>
<td></td>
<td>• Leisure &amp; Travel Operations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td># Those with a grade point average (GPA) of &lt;3.5 but ≥ 3.0 can be considered. If shortlisted, they are required to attend and pass an aptitude test cum interview with portfolio review.</td>
<td></td>
<td></td>
<td>• Manufacturing Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>+ If shortlisted, applicants would be required to attend and pass an aptitude test cum interview with portfolio review.</td>
<td></td>
<td></td>
<td>• Mechanical &amp; Electrical Engineering Design / Mechanical and Electrical Drafting &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>@ Applicants must ensure that they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.</td>
<td></td>
<td></td>
<td>• Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• Mechatronics Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

^ For those under the ITE non-modular system, distinction in either Practical or Theory is required.
# Those with a grade point average (GPA) of <3.5 but ≥ 3.0 can be considered. If shortlisted, they are required to attend and pass an aptitude test cum interview with portfolio review.
+ If shortlisted, applicants would be required to attend and pass an aptitude test cum interview with portfolio review.
@ Applicants must ensure that they do not suffer from medical conditions such as epilepsy. In the interest of general safety, admission of these applicants to a particular course is at the discretion of the Polytechnic.
The Diploma in Architecture course is a design cum technical programme which provides opportunities for exploration and discovery of your talent in architectural design with the application of building technology. You can experience the fulfilment of evolving designs in our project-based studios and developing critical and creative thinking for integrating architectural design theories and technology with considerations for ecology and sustainability. Personalised consultations with your tutors will guide you through the design, building documentation and detailing processes which mirror the needs of industry practice.

**First-class Training opportunities**
Enrichment talks, site visits, overseas study trips, together with critique sessions are incorporated into the programme to give students a holistic learning experience and raise global awareness. Participation in out-of-classroom activities, projects and competitions further develop an entrepreneurial culture among our students.

**Rewarding Future**
Upon graduation, you will be able to support architects in private architectural firms or practices or organisations that offer design and/or creative services. Graduates can be enterprising and be their “own boss” by offering services such as digital design presentation, model-making and architectural documentation.

Our graduates may be given advanced standing of 1-2 years in their professional architectural studies at both local and overseas universities should they wish to pursue further studies.

**Our Graduates Excel**

**Further Studies**
2009 – Stacy Peh Li Lin
2008 - Vanessa Chew Jing Hui
2007 - Chan Jun Jack
2006 - Huang Cai Jin
Awarded Diploma in Architecture
Gained direct entry to 2nd year Bachelor of Arts (Architecture) in NUS, Singapore

2006 - Lum Xue-Li Genevieve Shaun
Awarded Diploma in Architecture
Gained direct entry to 3rd year MArch in Melbourne University, Australia

2006 - Tung Tat Chee
Awarded Diploma in Architecture
Gained direct entry to 3rd year MArch RMIT, Australia

2006 - Nurhuda Binte Mohamed Khamis
Awarded Diploma in Architecture
Gained entry to 1st year Bachelor of Fine Arts in NTU, Singapore
Course Modules
All modules in the Diploma in Architecture course are mainly year-long modules with 100% in-course assessment. Critique sessions are held to facilitate interactive learning and assessment.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
</table>
| • Architectural Design Studio I  
• History & Theory of Architecture I  
• Materials & Architectural Technology I  
• Environmental Science I  
• Computer-Aided Design & Presentation  
• Our Nation, Our World  
• Oral Communication  
• Critical Reasoning Skills  
• General Elective Module | • Architectural Design Studio II  
• History & Theory of Architecture II  
• Materials & Architectural Technology II  
• Environmental Science II  
• Report Writing & Presentation  
• Communication Skills for Work  
• General Elective Modules | • Architectural Design Studio III  
• Materials & Architectural Technology III  
• Environmental Science III  
• Architectural Practice  
• Internship Programme (12 weeks)  
• Elective I  
• Elective II  

Option for Electives
- Detailing for Sustainable Design in Architecture & Landscape  
- Active, Beautiful, Clean Water Design Guidelines  
- Advanced Computer-Aided Design & Presentation

At Work
1988 - Richard Lai Teck Chuan  
B Arch (Hons) Newcastle, Australia  
Senior Principal Architect, ADDP Architects

1998 – Ho Soo Ying  
Diploma in Architectural Technology  
BA (Architecture), National University of Singapore  
Architectural Assistant  
WOHA Architects, Singapore

1998 - Joshua Goh  
Diploma in Architectural Technology  
Graduated from Association School of Architecture, UK  
Founded a collector’s jewellery design studio  
“Starlight Custom Silver”

2000 - Peggy Chia  
Diploma in Architectural Technology  
BA (Architecture), University of New South Wales, Australia  
Architectural Assistant  
RSP Architects Planners & Engineers Pte Ltd

2001 – Lim Jiahui  
Diploma in Architectural Technology  
BA (Architecture), National University of Singapore  
Architectural Associate  
CPG Consultants Pte Ltd, Singapore

2005 - Germain Goh Hui Mei  
Awarded Tay Eng Soon Gold Medal & Diploma in Arch Technology with Merit  
Project Manager in Lekker Building and Landscape, Singapore

2008 – Cliff Tan Anlong  
Awarded Lee Kuan Yew Award & Diploma in Architecture with Merit  
Golden Jubilee Award by UNSW

2002 - Tan Jing Sei  
2003 - Soh Bee Yuin  
2004 - Sylvia Bay Yumin

2007 – Lionel Teh Soo Ren  
URA Scholarship by Urban Redevelopment Authority

2006 - Alvin Oh Szu Chang
My three years of architectural studies in SP was both enriching and fulfilling. Through overseas study trips to Kuala Lumpur, Hong Kong and Australia, I came to understand the different environment and forms of architecture around us. During my studies, I have also participated in local and international architecture and design competitions. The lecturers were supportive and encouraging throughout the entire process. It was an honour to be part of the SP Campus Rejuvenation Team, where I worked together with the lecturers and the team to do the SP master planning. The scheme was presented to the SP’s Board of Governors. It was through these opportunities that allowed me to constantly develop and improve myself. With the knowledge and technical skills provided by my education in SP, it has definitely prepared me well for my university studies and the industry.

Miss Stacy Peh Li Lin, DARCH Graduate in 2009
(W)ith lecturers as great as ours, and a well-rounded, perfectly tuned, and correctly paced programme, it’s no wonder we love it!
Tan Anlong Cliff, (above) DARCH Graduate in 2008, Recipient of Lee Kuan Yew Award

I am extremely impressed with Jerome’s capability and enthusiasm. He has contributed a lot to our practice while he has been here. He is smart, sharp and fast. More importantly he is proactive, enthusiastic and keen. We hope he will return to HYLA when he had graduated.
Vincent Lee, Partner, HYLA Architects on DARCH intern
Can you imagine Singapore without the Changi airport, ports and harbours, beaches, reservoirs and water, MRT, LRT, roads and bridges, buildings, schools, HDB apartments and skyscrapers or offices? Or new facilities like the integrated resorts at Marina Bay and Sentosa, and the Marina Barrage? The quality of life for business, education and leisure depends on these infrastructures. Civil engineers and technologists are needed to design, build, maintain and manage them. Billions of dollars are invested every year for newer HDB homes, better roads and more MRT lines.

Students who join the DCEB course will acquire knowledge, personal and professional skills and attitudes to start small-and-medium enterprises and contribute to a more prosperous and modern Singapore.

The course offers six business modules that open the way for graduates to diversify into businesses in civil engineering and building.

During the course, they learn to conceive, design, build and test model bridges and earthquake structures. They will also learn to apply modern technology such as GPS, GIS, 3-D CAD, civil engineering design and project management software. Students will visit civil engineering works, and take part in overseas and local competitions and community service projects. The course delivery uses the C-D-I-O framework (conceive-design-implement-operate) and prepares students to be work-ready, life-ready and world-ready. Strategic industry partners in civil engineering provide industry training places for all students, and scholarships for first choice applicants to the course, and book prizes for outstanding students.

First-class Training Opportunities
We offer you:
• Field trips (both local and overseas)
• Competitions - earthquake, webpage, structural, recycling, environmental, boat race
• E-assignments on web
• Public exhibitions
• Projects & Community Service

Scholarships Available:
• Land Surveying Board
• Yongnam Studentships in Steel Construction
• Singapore Structural Steel Society
• Westspring Secondary School Alumni
• Crown Systems
**Rewarding Future**
DCEB graduates are in great demand in an industry that offers high salaries. Many graduates have also excelled in both local and overseas universities. You can gain direct entry into the second year of NUS and NTU’s civil engineering courses, do a degree course in Construction Management at SIM or obtain a related degree in 2 years from Australian and British universities.

**Our Students Excel**
2nd & 3rd Prizes in the International Earthquake Competition (Undergraduate Category), Taipei 2007 beating 36 other teams from universities and polytechnics from around the world. Won Best Architectural Design at the same competition in 2008.

Greenwave Environmental Competition 2007 – Tertiary Level
3rd Prize
Project: Power Scavenger
Merit Award
Project: Coolbicle – The 2-in-1 urinal system

2 Honorable Mentions in Civil / Transportation Engineering Category, 2008 Bentley Academic Awards
Student Design Competition
Team 1: Fong Sin Ee & Lee Choon Syian
Team 2: Chua Qiao Mei & Lim Zhi Hao
1st year Students 2007 / 08
Work Title 1: Sunset Bridge
Work Title 2: Urban Bridge

Honorable Mention in Civil / Transportation Engineering Category, 2007 Bentley Academic Awards
Student Design Competition
Noor Iskandar, Nurul Ain & Ang Lee Hoon
3rd year Students 2006 / 07
Work Title: Footbridge at Singapore Marina Bay

**Our Graduates Excel**
Admission to the prestigious Massachusetts Institute of Technology (MIT), USA in 2009 to pursue a Bachelor in Civil Engineering on a scholarship
Cheong Mun Ngah (2008)

1st Class Honours in BEng (Civil) awarded by NUS in 2009
Liu Guo Jie (2006)

1st Class Honours in BEng (Civil) awarded by NTU in 2009

**Students Overseas Trips**
- Beijing Immersion Programme
- Mercy Relief Programmes with SCDF (e.g. Padang, Indonesia)
- Overseas Study trips and Conferences to Indonesia and Germany
**Course Modules**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Virtual Construction Simulation &amp; CAD</td>
<td>• Structural Mechanics &amp; Analysis</td>
<td>• Elective 3.1</td>
</tr>
<tr>
<td>• Introduction to Civil Engineering &amp; Building</td>
<td>• Reinforced Concrete Design &amp; CAD</td>
<td>• Elective 3.2</td>
</tr>
<tr>
<td>• Our Nation, Our World</td>
<td>• Civil Engineering Construction &amp; Measurement</td>
<td>• Construction Law</td>
</tr>
<tr>
<td>• Internet Technology</td>
<td>• Hydraulics</td>
<td>• Internship Programme</td>
</tr>
<tr>
<td>• Innovation, Design &amp; Enterprise in Action</td>
<td>• Geomatics 2 &amp; GIS Applications</td>
<td>• Civil Engineering Project Management</td>
</tr>
<tr>
<td>• General Elective Module 1</td>
<td>• Introduction to Psychology</td>
<td>• Safety, Health &amp; Environmental Management</td>
</tr>
<tr>
<td>• Geomatics 1</td>
<td>• General Elective Module 2</td>
<td>• Civil Engineering Project 2</td>
</tr>
<tr>
<td>• Basic Mathematics</td>
<td>• Project Cost Control</td>
<td>• Steel Design &amp; CAD</td>
</tr>
<tr>
<td>• Accounts &amp; Finance</td>
<td>• Geotechnical Engineering</td>
<td>• Water Technology</td>
</tr>
<tr>
<td>• Engineering Mathematics 1</td>
<td>• Civil Engineering  Project 1</td>
<td>• Transportation Engineering</td>
</tr>
<tr>
<td>• Economics</td>
<td>• Engineering Mathematics 2</td>
<td></td>
</tr>
<tr>
<td>• Critical Researching Skills</td>
<td>• Communications Skills 2</td>
<td></td>
</tr>
<tr>
<td>• Oral Communication</td>
<td>• General Elective Module 3</td>
<td></td>
</tr>
</tbody>
</table>

**Free Electives**

Elective 3.1
- Green Building Technology
- Project Quality & Management
- GPS Applications
- Higher Mathematics

Elective 3.2
- ABC Waters Design and Engineering Procedures
- Computer Programming with Applications In Civil Engineering
- Structural Inspection & Repair
- Entrepreneurship

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**DON’T JUST TAKE OUR WORD FOR IT... HEAR WHAT OTHERS SAY!**

"The subjects taught in Poly provided the fundamental and practical aspects while the university focused on the theory. Combining the practical and theoretical experiences with the Industrial Training I had in SP, I found my job as an Environmental Engineer in Sydney."

Ms Polo Foo Keng Boon, Graduate (1997), Bachelor in Environmental Engineering from University of New South Wales Currently working in Sydney as an Environmental Engineer.
Learning does not only take place in the classroom. Through practical hands-on sessions and valuable industrial training programs, I was exposed to both theoretical and practical problems, in which I have learnt to seek for workable engineering solutions. The training not only prepared me well for the industry, it has also laid a strong foundation for me to strive for further academic achievements. In fact, I believe that my Diploma in Civil Engineering has given me an additional edge over my fellow classmates who have come from the Junior Colleges.

Mr Lin Wenjun, Vincent, Graduate (2002), Completed his BEng in 2 years with 1st Class Honours. He was awarded the NUS Lee Kuan Yew Gold Medal, 2007 and numerous other prizes during his time in NUS. Currently he is studying for his Master of Engineering on a Research Scholarship and working towards a PhD.

What I’ve learnt and experienced during my 3 years in the diploma course were extraordinary! It taught me skills and knowledge and physics dynamics proved to be a life saver in my training.

Mr Chris Choo Wen Jie, Graduate (2004), Trainee pilot based in Australia who became an instant celebrity in Australia in September 2007. While flying solo, he made a skilful emergency landing at Western Australia’s Jandakot Airport when one of the landing wheels failed to come down. Since then, he has received job offers as a chartered pilot and a flight instructor in both Singapore and Australia.
Environmental and water technologies are emerging high growth industries in Singapore. This sector of the economy is expected to triple to $1.7 billion by 2015 with the number of jobs doubling to 11,000. It is estimated that the Asian environmental engineering market alone is worth $37 billion a year and has the potential to triple to $105 billion by 2010.

The DEWT is an exciting course that is designed to equip students for a career in this fast growing industry.

**First-class Training Opportunities**

We offer you:

- Field trips (both local and overseas)
- Competitions
- E-Learning using online materials and the Internet
- Public exhibitions
- Projects & Community Service (both local and overseas)

Scholarships Available:

- PUB

**Our Students Excel**

Exchange Programme to Japan
Sean Teo Fu Siang
2nd year Student 2008 / 09

Exchange Programme to Korea
Kenneth Chen, SP Scholar
Lim Ren Hui, PUB Scholar
2nd year Students 2008 / 09

Study Trip to Oita National College of Technology, Japan 2009

Local and International Conferences for Young Water Professionals
(e.g Beijing, Nov 2009)

**Rewarding Future**

Graduates will enjoy employment opportunities with government ministries, public sector agencies, environmental consultancies and service providers in water and water reclamation, membrane technologies and desalination. Many companies listed in the directory of Singapore Water Association (SWA) will provide ample job opportunities.

For further studies, students can gain direct entry into the second year of NUS and NTU’s environmental and civil engineering courses or obtain a related degree in 2 years from Australian and British universities.
### Course Modules

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Introduction to Environmental Engineering with CAD&lt;br&gt;• Air Pollution Control&lt;br&gt;• Geomatics &amp; GIS&lt;br&gt;• Electrical Technology&lt;br&gt;• Critical Researching Skills&lt;br&gt;• Basic Mathematics&lt;br&gt;• Innovation, Design &amp; Enterprise in Action&lt;br&gt;• Our Nation, Our World&lt;br&gt;• Hydraulics&lt;br&gt;• Internet Technology&lt;br&gt;• Analytical and Physical Chemistry&lt;br&gt;• Oral Communication&lt;br&gt;• Engineering Mathematics 1&lt;br&gt;• General Elective Module 1</td>
<td>• Water Supply &amp; Reclamation Technology&lt;br&gt;• Soil Science&lt;br&gt;• Water Experience Workshop&lt;br&gt;• Workplace, Safety, Health &amp; Environment&lt;br&gt;• Communication Skills&lt;br&gt;• Engineering Mathematics 2&lt;br&gt;• Basic Structures&lt;br&gt;• Civil Engineering Construction &amp; Measurement&lt;br&gt;• Environmental Project 1&lt;br&gt;• Solid &amp; Hazardous Waste Management&lt;br&gt;• Sustainable and Clean Energy&lt;br&gt;• General Elective Module 2&lt;br&gt;• General Elective Module 3</td>
<td>• ABC Waters Design and Engineering Procedures&lt;br&gt;• Environmental Microbiology&lt;br&gt;• Elective&lt;br&gt;• Internship Programme&lt;br&gt;• Environmental Management System&lt;br&gt;• Environmental Project 2&lt;br&gt;• Industrial Noise and Vibration Control&lt;br&gt;• Project Management&lt;br&gt;• Waterman Course&lt;br&gt;• Membrane Separation Processes&lt;br&gt;• Instrumentation &amp; Control&lt;br&gt;<strong>Elective</strong>&lt;br&gt;• Green Building Technology&lt;br&gt;• Higher Mathematics</td>
</tr>
</tbody>
</table>

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**Don’t just take our word for it... hear what others say!**

Highly encouraging. Graduates will be readily employable. I am very happy that SP is taking the leap to introduce this course to train people in this area. Please keep up the good work. It is timely to include the DEWT course; it will enhance SP in this important area of work…relevant to the industry. Yes to the course. Good idea.

Mr Stephen Wong, Director, KPK Quantity Surveyors (1995) Singapore Pte Ltd
This course aims to provide the best education and training for students who want a rewarding career in the facilities management of hotels, resorts, serviced apartments, and even at commercial buildings, private & public housing, hospitals, airports, seaports, and other physical assets.

Facilities management is a rapidly growing professional and vital discipline concerned with the multi-disciplinary activities of integrating people, asset, environment and process to ensure functionality, to enhance lifestyle, to add value, and to optimise the physical environment and infrastructure. Facilities management enables businesses and other organisations to carry out their main functions efficiently through space planning, asset management, event management, maintenance, administration and contract management.

As Singapore is fast becoming a top MICE (Meetings, Incentives, Conventions & Exhibitions) & tourist destination and education hub for international students, hotels, serviced apartments, student hostels and economy classlodgings are sprouting up all over Singapore, thus the increased demand for expertise in hotel facilities management.

Students will be taught a combination of soft business management skills and technical skills. Important areas of study include hotel operations, rooms division management, tourism & leisure management, F & B, safety, health & security, environmental management & sustainability, M&E services, structure & fabrics, financial planning, budgeting, and project management.

In the final year, students will opt for one of two options, namely:
- Hotel & Leisure Management
- Property Facilities Management
### Course Modules

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Introduction to Hotel &amp; Leisure Facilities Management</td>
<td>• Environmental Management &amp; Sustainability</td>
<td>• Hotel &amp; Leisure Management Concentration</td>
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<tr>
<td>• Structure &amp; Fabric</td>
<td>• Accounts &amp; Finance</td>
<td>• IT Applications II</td>
</tr>
<tr>
<td>• IT Applications I</td>
<td>• Building Services II</td>
<td>• Food &amp; Beverage Operations</td>
</tr>
<tr>
<td>• Principles of Management</td>
<td>• Public Relations</td>
<td>• Procurement</td>
</tr>
<tr>
<td>• Our Nation, Our World</td>
<td>• Property Maintenance Management</td>
<td>• Hotel Operations &amp; Management</td>
</tr>
<tr>
<td>• Law</td>
<td>• Rooms Division Operations &amp; Management</td>
<td>• Travel &amp; Leisure Management</td>
</tr>
<tr>
<td>• Front Office Management</td>
<td>• Event Management</td>
<td>• Communication Skills for Work</td>
</tr>
<tr>
<td>• Principles of Marketing</td>
<td>• General Elective Module</td>
<td>• Internship Programme</td>
</tr>
<tr>
<td>• Economics</td>
<td>• Building Maintenance Technology</td>
<td>• Property Facilities Management Concentration</td>
</tr>
<tr>
<td>• Building Services I</td>
<td>• Fire Safety Management</td>
<td>• IT Applications II</td>
</tr>
<tr>
<td>• Innovation Design &amp; Enterprise In Action</td>
<td>• Safety, Health &amp; Security</td>
<td>• Property Management</td>
</tr>
<tr>
<td>• Communication Skills</td>
<td>• Leisure Amenities Management</td>
<td>• Building &amp; Refurbishment</td>
</tr>
<tr>
<td>• General Elective Module</td>
<td>• Customer Relationship Management</td>
<td>• Maintenance of Building Services</td>
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<td>• Critical Reasoning Skills</td>
<td>• Facilities Management</td>
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<td></td>
<td>• General Elective Module</td>
<td>• Communication Skills for Work</td>
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<td>• Internship Programme</td>
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</tbody>
</table>

### Career Prospects and Graduate Opportunities

Graduates of this course will find lots of lucrative and interesting openings available for employment in hotels, resorts, clubs, leisure industry, serviced apartments, commercial & industrial properties, private & private housing, hospitals, and even cruise liners. Some of the positions they can choose to fill include:

- Hotel Facilities Manager
- Front Office Manager
- Rooms Division Manager
- Lobby Manager

Universities overseas typically grant our graduates at least one-year of exemption from their three-year degree courses. Locally, graduates can also pursue full-time and part-time degree programmes, with similar exemptions.
The Singapore Tourism Board (STB) has recognised MICE (Meetings, Incentive travel, Conferences & Exhibitions) as a key generator of the tourism dollar. It has publicly committed itself to working with industry to build up a robust pipeline of arts, leisure and business events to maintain Singapore’s leadership position as a top destination. This is achieved by an aggressive marketing and publicity campaign and by giving a host of new incentives to this sector.

Singapore has been ranked one of the most popular convention cities in the world having hosted 125 international events/conventions which grossed S$3.24 billion in revenue. Space for MICE is also expected to double to 2.75 million square feet in the next few years, including the opening of the two Integrated Resorts.

This course prepares graduates to meet the needs of the exciting and rapidly growing events management and MICE sectors of the industry.

First-class Training Opportunities
Armed with a combination of both soft business skills such as event creation, promotion, sponsorship and food and beverage as well as hard technical skills like sound and light systems, event facilities construction, materials and decoration, DEPM graduates would be able to capitalise on the strengths of project management and to use these skills for more efficient events management.

Integrated Events & Project Management involves the strategic use of project management skills in events organising, ranging from small corporate events like product launches to large scale events like the IMF World Bank Meetings.
**Rewarding Future**
Graduates will enjoy employment opportunities with a diverse range of events management organisations, venue providers and contractors carrying out works and providing services. Large corporations in all economic sectors (e.g. telcos, media companies, IT companies, banks, among many others) organising their own corporate events and promotional activities, as well as government ministries and statutory boards also provide job openings.

Some of the positions they can choose to work in include:
- Events Coordinator
- Event Marketing & Sales Executive
- Events Customer Service Executive
- Events Concept Planner
- Venue & Facilities Manager
- Operation & Logistics Manager
- Event Manager
- Project Manager

**Course Modules**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
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</thead>
<tbody>
<tr>
<td>• Law I</td>
<td>• Logistics &amp; Site Operations</td>
<td>• Food &amp; Beverages</td>
</tr>
<tr>
<td>• Event Materials &amp; Decoration</td>
<td>• Event Facilities Construction</td>
<td>• IT Applications for Events II</td>
</tr>
<tr>
<td>• Audio Visual Systems</td>
<td>• Event Creation &amp; Market Research</td>
<td>• Event Budgeting &amp; Control</td>
</tr>
<tr>
<td>• Principles of Management</td>
<td>• Public Relations</td>
<td>• Special Events Project Management</td>
</tr>
<tr>
<td>• Events Experience</td>
<td>• Cross Cultural Studies</td>
<td>• Venue &amp; Space Management</td>
</tr>
<tr>
<td>• Event Management Communications</td>
<td>• Accounts &amp; Finance</td>
<td>• Communication Skills for Work</td>
</tr>
<tr>
<td>• Our Nation, Our World</td>
<td>• General Elective Module</td>
<td>• Entrepreneurship</td>
</tr>
<tr>
<td>• Principles of Marketing</td>
<td>• Law II</td>
<td>• Internship Programme</td>
</tr>
<tr>
<td>• Design, Drawings &amp; CADD</td>
<td>• Resource Procurement &amp; Negotiation</td>
<td></td>
</tr>
<tr>
<td>• IT Applications for Events I</td>
<td>• MICE Management</td>
<td></td>
</tr>
<tr>
<td>• Economics</td>
<td>• Project Management</td>
<td></td>
</tr>
<tr>
<td>• Innovation Design &amp; Enterprise In Action</td>
<td>• Engineering Services &amp; Coordination</td>
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<tr>
<td>• Critical Reasoning Skills</td>
<td>• Environmental Safety &amp; Health</td>
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<tr>
<td>• General Elective Module</td>
<td>• General Elective Module</td>
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</table>
DIPLOMA IN LANDSCAPE ARCHITECTURE (DLA)

A vibrant City in the Garden. The Diploma in Landscape Architecture course aims to train designers who are competent in theory and practice in landscape design.

First-class Training Opportunities
With a good foundation in horticulture and environmental awareness on ecology, the programme balances the emphasis on the integrated design approach of landscaping through out-of-classroom learning activities, competitions and overseas study trips.

Rewarding Future
Graduates in Landscape Architecture can be employed in a variety of positions that offer many challenges:

- Assistants to landscape architects, architects, planners and other parallel professions.
- Landscape designers in organisations such as National Parks Board, Jurong Bird Park, Singapore Zoological Gardens, Housing and Development Board (HDB), etc.
- Entrepreneurs offering a ‘design and build’ contract package in landscaping.
- Middle management personnel in Town Councils to coordinate and manage parks and open spaces.
- Freelance landscape designers offering design services in the region.
Our Graduates Excel

Further Studies
2007 - Ms Mak Mun Pheng
Awarded Diploma in Landscape Architecture
Gained direct entry to MA in Landscape Urbanism, Architectural Association, School of Architecture, London

2007 - Mr Umar bin Abdul Aziz
Awarded Diploma in Landscape Architecture
Gained direct entry to BArch (Architecture), National University of Singapore

At Work
Ms Sarah Yen Huihui, graduated in 2007
Planning Executive
Policy & Planning Division
National Parks Board Singapore

Ms Koh Wan Kee, graduated in 2007
Landscape Designer
Exklusive Landscape

Ms Edith, graduated in 2008
Landscape Designer
Atelier Dreiselti Asia

Course Modules
All modules in the Diploma in Landscape Architecture course are mainly year-long modules with 100% in-course assessment. Critique sessions are held to facilitate interactive learning and assessment.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Landscape Design Studio I</td>
<td>• Landscape Design Studio II</td>
<td>• Landscape Design Studio III</td>
</tr>
<tr>
<td>• Plants &amp; Landscape Technology</td>
<td>• Plants &amp; Sky-rise Technology</td>
<td>• Plants &amp; Site Planning</td>
</tr>
<tr>
<td>• History &amp; Theory of Landscape Design I</td>
<td>• History &amp; Theory of Landscape Design II</td>
<td>• Urban Environment &amp; Society</td>
</tr>
<tr>
<td>• Environmental Systems &amp; Processes</td>
<td>• Computer-Aided Design &amp; Presentation</td>
<td>• Project Management in Landscape Architecture</td>
</tr>
<tr>
<td>• Our Nation, Our World</td>
<td>• Report Writing &amp; Presentation</td>
<td>• Internship Programme (12 weeks)</td>
</tr>
<tr>
<td>• Oral Communication</td>
<td>• Communication Skills for Work</td>
<td>• Elective I</td>
</tr>
<tr>
<td>• Critical Reasoning Skills</td>
<td>• General Elective Modules</td>
<td>• Elective II</td>
</tr>
<tr>
<td>• General Elective Module</td>
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</table>

Option for Electives
- Detailing for Sustainable Design in Architecture & Landscape
- Active, Beautiful, Clean Water Design Guidelines
- Advanced Computer - Aided Design & Presentation
Originally I dreaded my first few days and weeks of work because of the different environment between school life and the real world! CAD!!!!, deadlines (overtime), meetings, and all - but now I can confidently say that the training given by the polytechnic has prepared me for this challenging and rewarding career.

Now, I can confidently say I am enjoying my work. I get to design million dollar projects, be responsible for the redevelopment of hectares of land in overseas projects and it is very exciting. As I learnt at Poly, be willing to learn! Don’t give up and enjoy what you do.

Tuson Chong Fatt Kwang, DLA Graduate in 2007.
The greatest thing I took with me after the 3 years of studies in SP is the ability to appreciate.

Seah Wei Ping Gabriel, DLA Graduate in 2009. Recipient of Lee Kuan Yew Award, Singapore Institute of Landscape Architects Prize, National Parks Board Gold Medal, Shell Companies in Singapore Prize & OCBC Prize.
For more information regarding entry requirements, courses and careers please contact:

School of Architecture & the Built Environment
Tel: (65)-6772-1322 / 6772-1112
Fax: (65)-6772-1973
Email: abe@sp.edu.sg
Website: http://www.sp.edu.sg/schools/abe

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The Polytechnic reserves the right to alter the information in this publication. Information is correct as at 1 January 2010.