

## Mission

To prepare school-leavers and working adults for a future of dynamic change, with relevant knowledge, life-long skills, character, and a thirst for continuous improvement.

## Vision

To be a world-class institution in the global education network, reputed for our programmes, applied research, managerial excellence and innovative corporate culture.



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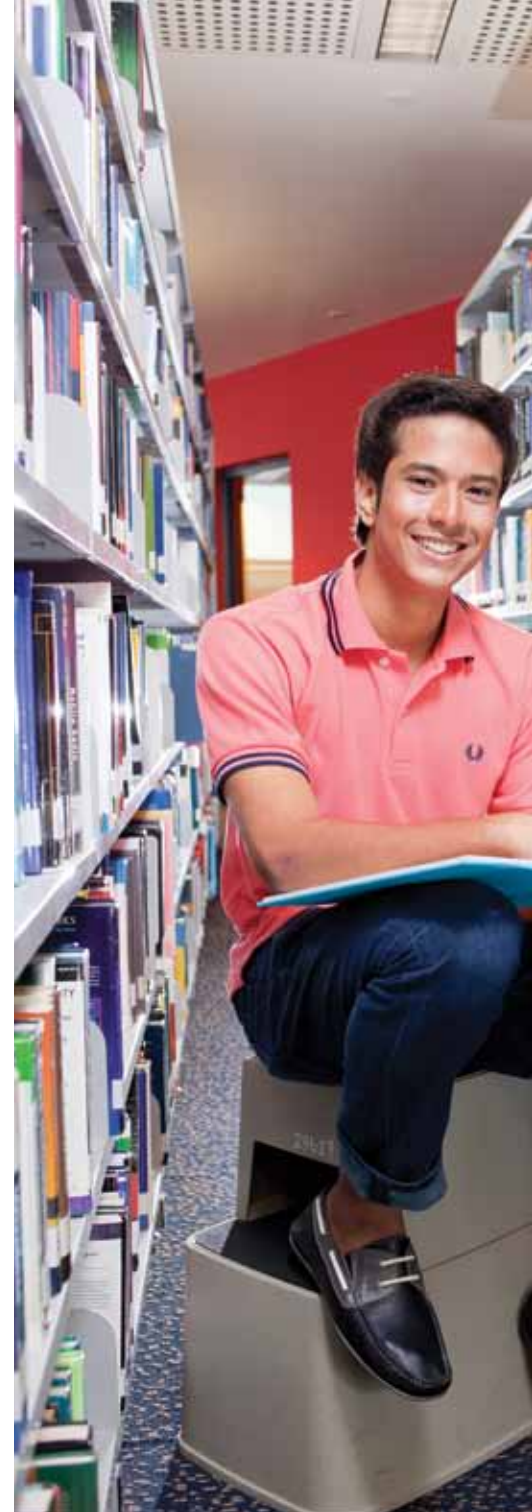
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# welcome to **tp**

**E**stablished in April 1990, Temasek Polytechnic (TP) operates from a 30-hectare campus fronting the scenic Bedok Reservoir. It currently has a student population of about 15,000 and a staff strength of about 1,300.

There are six academic schools at TP – the Applied Science, Business, Design, Engineering, Informatics & IT, as well as the Humanities & Social Sciences Schools. Together, they offer 53 market-driven full-time diploma courses that prepare students to be ready for further studies, future careers and life.

The Polytechnic prides itself as an organisation that embraces excellence. In July 2001, TP achieved the Public Service Award for Organisational Excellence in recognition of its attainment of the ISO 9000 certification for full-time programmes, the People Developer Standard and the Singapore Quality Class.

In November 2005, the award was renewed through dedicated and concerted efforts made to maintain TP's reputable standing of quality. TP continued in its quest for excellence and achieved a renewal of the Singapore Quality Class in September 2008 and the People Developer Standard in April 2009. In April 2010, TP underwent a successful conversion to the ISO 9001 : 2008 standard, resulting in a renewal of the ISO certification.

With its continuing quest for organisational excellence and industry relevance, commitment to providing a holistic programme to its students, and its dedication to effective teaching approaches, TP ensures that its students are well-prepared to face the challenges of the future.

## message from principal & CEO



**T**emasek Polytechnic (TP) offers a wide variety of academic programmes designed to help our students achieve their aspirations meaningfully. Our 53 diploma courses, detailed in this prospectus, are market driven and industry supported. Complemented with a rigorous core curriculum, experienced faculty and cutting-edge facilities, we ensure that your experience at TP will keep your career and further education options wide open.

The TP diploma is your stepping stone to achieving your academic and career success. Our strong links with industry and reputable academic institutions around the world has kept pace with our increasing high standard of teaching. While our graduates are work-ready, the diploma is recognised by over 200 institutions around the world that you can choose to further your education at.

We are delighted that you have chosen or are considering Temasek Polytechnic on your higher education journey. You will find TP a place where learning comes to life, where our students thrive in an environment that is dynamic whilst being under the guidance of caring lecturers.

I look forward to welcoming you to TP in 2012.

A handwritten signature in black ink, which appears to read 'Boo Kheng Hua'. The signature is fluid and cursive.

**BOO KHENG HUA**  
*Principal & Chief Executive Officer*

# learning at **tp**




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Learning at a polytechnic will mean a significant adjustment for many students. At TP, you can be assured of a smooth transition to poly life with our innovative teaching approaches and systems. These are designed to develop your potential by maximising your learning opportunities and honing your talents.

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## TEACHING EXCELLENCE

TP lecturers are recruited based on their proven track record in industry and their commitment to enhance student learning. All lecturers go through a professional development programme in pedagogy conducted by the polytechnic's Learning

Academy. Lecturers use a wide repertoire of learning-teaching approaches which include the use of new technologies, interactive digital media and state-of-the-art facilities to help you learn as well as ignite your passion for learning.

## PROBLEM-BASED LEARNING

As a TP student, you will gain first-hand experience of the Problem-based Learning (PBL) approach that TP has adopted since 1997. PBL is an innovative learning approach that goes beyond content knowledge and helps you acquire learning, communication, problem-solving and teamwork skills. Through this, you will develop abilities in independent study, self-reflection and creative thinking.

Under PBL, the lecturer functions as a facilitator and an activator of student learning whilst you, the student, become a self-directed and active learner. All this means that PBL will make you a

better learner and more adept at handling the challenges that you will encounter in the future. TP was awarded The Enterprise Challenge (Innovation Award) from the Prime Minister's Office in 2001. This award was for developing and implementing a PBL model as an educational innovation for the knowledge-based economy. In 2003, we were awarded The Enterprise Challenge Shield, also from the Prime Minister's Office. This prestigious award recognises the most outstanding project which has created the highest new value to the public service.

## FLEXIBLE ACADEMIC SYSTEM

All courses at TP come under the Flexible Academic System for Temasek (FAST). This system provides you with greater flexibility in matching your interest and aptitude, while adapting your academic workload to suit your pace of learning.



In this academic framework, all diploma course structures have three main categories of subjects:

- TP Core Subjects – compulsory subjects for all TP students
- Diploma Subjects – subjects specific to your diploma course
- Cross-Disciplinary Subjects – subjects beyond your diploma specialisation

Under FAST, each subject is a distinct and self-contained unit of study. As such, you need only re-take subjects that you have failed instead of repeating the entire year or semester of study. To give you a good foundation, some subjects include pre-requisites and co-requisites that must be met before you are allowed to take the subjects. Academic advisors in the six Schools at TP will help you make your choices wisely in

order to meet your academic and personal goals. TP has obtained and will continue to seek accreditation, both at course and subject levels, with other institutions. You will be able to gain credits from other institutions and use them towards meeting the minimum graduation requirements at TP. By the same token, you can also use the credits earned at TP to seek credit exemption for furthering your studies.

### LEARNING ACROSS DISCIPLINES

In our effort to provide you with a holistic education at TP, you will be introduced to Cross-Disciplinary Subjects (CDS), ie, subjects beyond your diploma specialisation, as well as those that promote character building and a global perspective. The subjects are intended to ensure our students have a broad-based education when they graduate.

TP's six Schools offer a wide range of interesting CDS for you to choose from, including subjects in the arts, humanities and social sciences. This broad-based education will give you an edge in a world of work that increasingly bridges academic disciplines. For a list of these subjects, please refer to the section on "Cross-Disciplinary Subjects".

### CERTIFICATE PROGRAMME

In today's global economy, jobs are increasingly multi-disciplinary in nature as employers demand more from their employees. To help meet this challenge, TP offers a programme specially designed to help students attain an additional qualification while pursuing their studies in TP. Together with their diploma specialisation, the certificate in a field outside their course of study will give students an edge

over the competition when they graduate.

The Certificate Programme comprises a series of subjects, grouped in clusters according to their specific field of study. Each subject cluster consists of four fundamental subjects in that given field. Students who are ranked in the top 10 percent in the first semester of their first year are eligible to sign up for the Certificate Programme. A certificate will be awarded to students who successfully complete the four subjects in the subject cluster.

The subject clusters are:

- Certificate in Business Fundamentals
- Certificate in Cross-Cultural Studies
- Certificate in Design Fundamentals
- Certificate in Digital Literacies
- Certificate in Language & Culture (French & Japanese)
- Certificate in Life Sciences Fundamentals
- Certificate in Management & Enterprise
- Certificate in Psychology Fundamentals

### CHARACTER EDUCATION

The Centre for Character & Leadership Education at TP provides experiential opportunities for you to learn how to lead a more meaningful and effective life by developing character traits that are valued in the workplace and family, traits that become all the more important if you are in a leadership position. Through the Centre's programmes, you will learn about making ethical decisions that are in line with values that can guide your life, increase your personal effectiveness and add value to your future career.

## ENTREPRENEURSHIP

TP believes that entrepreneurship is a mindset and discipline that must be embraced by both students and staff. In line with this, the Entrepreneurship Centre was set up in 2004. Across the polytechnic, entrepreneurial values are recognised, assimilated and developed in students. No matter which course of study or specialisation area you choose, you will be given the opportunity to develop your entrepreneurial talent. At TP, entrepreneurship goes beyond classroom learning. Experience is gained through real life projects and interaction with industry.

## E-LEARNING

In the course of your study in TP, you will have many opportunities to engage in e-learning. You will acquire valuable skills in learning how to learn and how to create knowledge in an online environment. You will have the opportunity to be exposed to both independent and collaborative learning online through TP's platform, OLIVE (Online Learning Interactive Virtual Environment). The flexibility of e-learning means that you will be able to study when and where you like in TP's wireless environment.

You can also look forward to using leading specialised software applications and new technologies, including those related to IDM (Interactive Digital Media), to enhance skills and understanding in your chosen field.



# student life **at** tp




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Life as a TP student is as exciting as you make it to be. The campus is abuzz with student activities all year round. Besides live concerts, numerous arts events and sports competitions, our students have the opportunity to participate in local and overseas community projects, camps, expeditions, student leadership programmes and many other meaningful events that develop students beyond their academic pursuits.

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## CO-CURRICULAR ACTIVITIES

From sports to arts to leadership training, you will experience a variety of co-curricular activities (CCAs) that provides you with a well-rounded educational experience and contribute to your personal enrichment. There are more than 50 CCAs to choose from, and we are confident that you will find one that matches your interest, be it

in sports, performing arts, interest groups or studies club. As an adopter of the beautiful Bedok Reservoir which is located right next to the campus, we provide abundant opportunities for you to enjoy a wide range of water sports such as dragon boating, kayaking and wakeboarding.

## A CARING CAMPUS

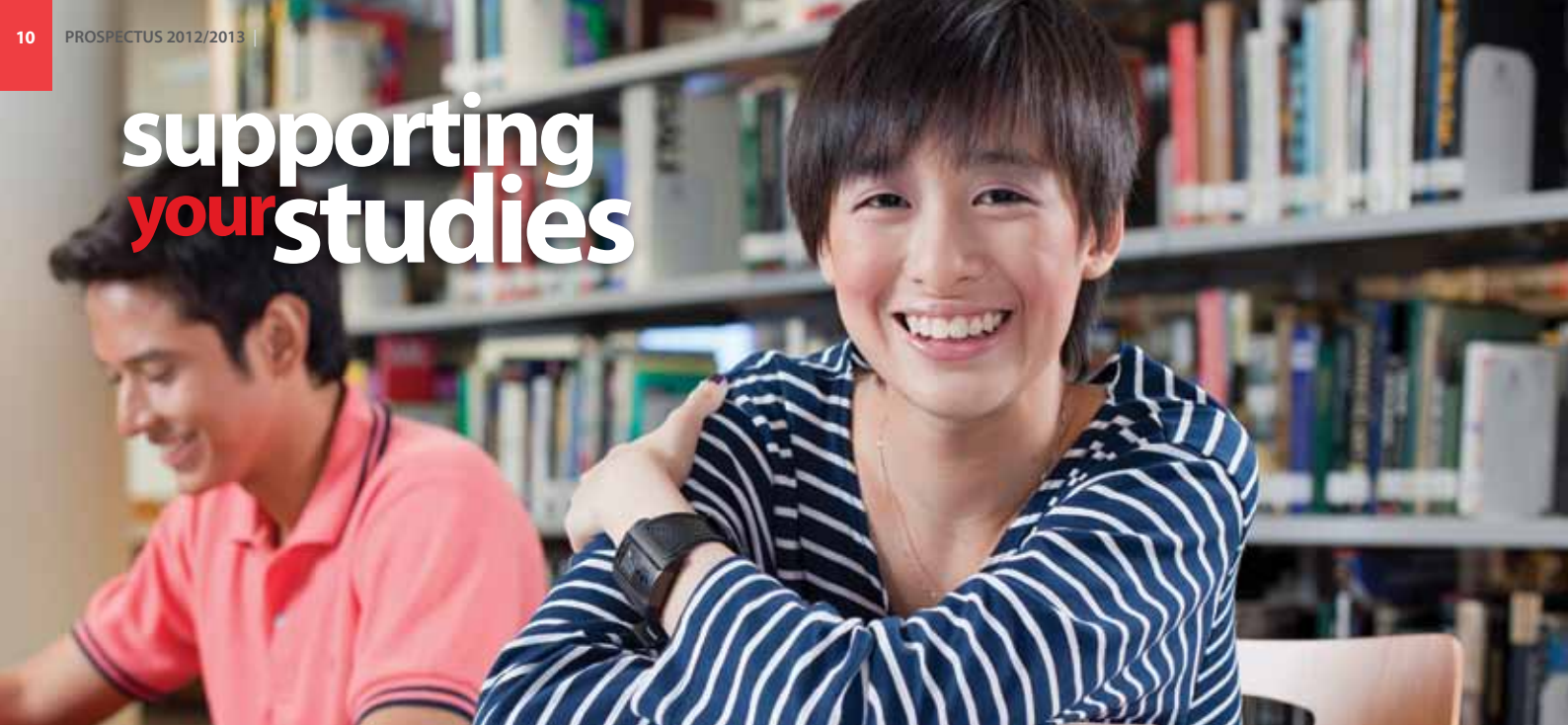
The Campus Care Network (CCN) promotes a caring culture within the TP community. We create a family-like environment which emphasises personal rapport between lecturers and students. You will be assigned to a Care Person, a lecturer dedicated to taking care of you and your group of friends throughout your three years here. In this way, we ensure your personal wellbeing and growth.

Each year, the CCN Day Carnival held on campus brings staff and students together in the spirit of caring and sharing to raise funds for needy students. This poly-wide event aims to cultivate community-spiritedness, while providing an opportunity for staff and student bonding.

## STUDENT WELLNESS AND COUNSELLING

As you pursue an exciting and enriching educational experience at TP, there may be times when the challenges that come your way seem overwhelming, and you need help through these challenges. The Student Wellness & Counselling Centre is staffed by qualified professional counsellors who are here to help you cope with difficulties of the social, emotional, financial, career or any other nature. In addition, our counsellors also conduct wellness workshops which teach you life-skills such as how to manage relationship troubles, how to handle stress, time management and study skills.

# supporting your studies



## LIBRARY AND INFORMATION RESOURCES

TP Library is the tallest building in the campus. Standing tall at 11 storeys, the Library houses a wide-ranging collection and provides a whole host of facilities and services to meet the learning and enrichment needs of students.

Boasting a collection size of 250,000 items, the Library is constantly enhancing its collection of books, AV titles, journals and magazines. Besides academic titles, leisure reading materials are available in the form of fiction, lifestyle magazines and books at the Lifestyle Floor.

The Lifestyle Floor houses facilities such as the Cable TV Room and the Podium where regular performances are held. Other facilities that can be found on this and other

floors include Internet PCs equipped with MS applications, scanners, printers and photocopier machines. Project and study rooms, reading carrels and tables are also readily available.

In addition, students can visit the Library & Information Resources website which comprises a large selection of online videos, databases, books, exam papers, archives of corporate memories, and more. The Library is also at the forefront of social media endeavours and has presence in Facebook, wikis and blogs. Not only that, specially-developed mobile applications are available to enable members access resources and information from anywhere, at any time.

Besides the hardware that helps the students in their study here, the Library also provides the heartware that makes learning a positive experience. Lifelong information searching skills are instilled in the students in the form of

on-site user education classes and PASS (Project Advisory Services for Students) where librarians are attached to project groups to help students map out research strategies. As such, students are given guidance throughout the research process via various kinds of research assistance.

## E-CAMPUS

TP has embarked on an initiative known as “e-Campus” to establish a strategic technology platform that allows staff and students to be connected anytime, anywhere. The framework enables the realisation of personalised web space where almost every service and learning resource can be accessed from within and outside the campus.

Among the services available is a personalised timetable that can be accessed anywhere. Students can also perform subject selection, update their personal particulars, view their

examination results, view their academic progression, apply for TP Scholarship and enrol for courses online. Our students are also able to read news and announcements, access information resources stored in TP's Library, submit work assignments from home, study online, attend virtual tutorials and group discussions, and chat online with lecturers. These are all part of the growing e-lifestyle for you at TP.

TP has completed its campus network upgrade project in Aug 2011. The campus-wide backbone is now 10 Gigabit Ethernet (10GE) ready. With that, staff and students could enjoy high-speed connectivity that facilitates rich media delivery. This, coupled with enhanced mobility will bring about a fully collaborative e-lifestyle for students and staff campus-wide.

### **INTERNATIONAL RELATIONS & INDUSTRY SERVICES DEPARTMENT**

The International Relations & Industry Services (IRIS) Department is TP's "eye" that scans, seeks and seizes opportunities for TP to connect to the world, so as to achieve the 4G outcomes of:

- Inculcating a Global Mindset in our staff and students
- Giving them an enriching Global Experience
- Forming Global Partnerships with industry
- Establishing a strong Global Branding for TP

IRIS supports the enhancement of staff capability development, student learning experience and graduate employability through:

- Developing partnerships with industry through consultancy, joint R&D projects, student internships, and job placements.
- Promoting innovation and commercialisation.
- Linking TP with the world through international technical transfer programmes and projects, staff/student exchanges, overseas student internships.
- Recruiting quality international students and helping international students adapt and adjust to life in Singapore by meeting their holistic needs in three key areas, namely, emotional, social and practical needs.
- Advising students on post-diploma education and career options through our Career and Course Advising Office.

