STUDENT HANDBOOK 2021/2022



SCHOOL OF ENGINEERING



This Student Information Guide is specially prepared for
Students of the School of Engineering.
It details the key information that all students should know.
Information in the Student Information Guide is accurate at the time of publication.
The School of Engineering reserves the right to amend information without prior notice.
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DIRECTOR'S WELCOME



DIRECTOR'S WELCOME
Message from Director, School of Engineering

May I warmly welcome all students to the new academic year.

First, I would like to congratulate all new students for successfully getting a place at the School of Engineering. I am confident that you have made the right choice to join us, and that when you complete your study here, you can

certainly look back with pride at the many fond memories of the time spent here.

As we begin a new semester, it is a good time to reflect on the developments of the past year, and how our educational landscape has evolved. The shift towards home-based learning (HBL) arising from the health situation, while posing some unprecedented challenges, has also opened new doors of opportunity and brought some benefits as well. We have learnt the importance of adapting quickly to changes and embracing technology. We have also seen an acceleration of digitalisation not just in our country, but globally as well. While it is undeniable that face-to-face (F2F) learning provides many benefits that HBL cannot offer, the latter does help to increase our productivity by eliminating, for example, the need to travel to campus, and the maintenance of physical facilities for teaching and learning.

Moving forward, we will adapt ourselves to the evolving situation and strike the best balance between HBL and F2F so as to give you the best learning experience. We have also introduced some new initiatives, which I urge all of you to take advantage of.

Our new TP-Advanced Manufacturing Centre (TP-AMC) located in our School, for instance, allows you to receive multi-disciplinary experiential training in equipment connectivity technologies and solutions such as the Industrial Internet of Things (IIoT), automation and artificial intelligence. These technologies are increasingly being used in smart factories and manufacturing facilities today, so you will be able to ride the wave of digital transformation upon graduation.

We have also introduced "university pathway programmes" that allow you to take university modules in the final year of your diploma course with us, and get a one-year exemption for selected degree courses at local universities. Do check our website for more updates on these programmes.

In the next three years, you will receive not just academic training, but also opportunities to hone your problem-solving skills, cultivate life skills, as well as acquire a global mind-set through overseas internships, community projects or study trips. There are also diverse Co-Curricular Activities (CCAs) which give you the chance to exercise your leadership qualities, pursue your sporting passion, enrich yourself culturally, or to enlarge your circle of friends. So do make the best of your student life, because learning can, and should, be enjoyable.

At the School of Engineering, we are always open to suggestions for improvement. Should you have any feedback or need help in your personal matters at any time, do contact your lecturers or Care Person. We are always here to assist you.

Finally, may I wish you a very rewarding and meaningful academic year ahead.

Song Kwok Yuen Tel:6780-5522

Email: song kwok yuen@tp.edu.sg

1990	The School of Engineering was established under the wing of the School of Science & Technology at the Stirling Road Campus with a staff strength of 7. (Director: Mr Geoffrey Ng)	
Jan 1991	School moved to Grange Road Campus.	
Jul 1991	1st batch of Engineering students started their diploma courses in Electronics and Mechatronics. Enrolment for AY91/92: 80 students per course	
Oct 1992	The School of Engineering assumed autonomous status. (Director: Mr Ang Keng Loo)	
May 1993	School shifted to the Kim Seng Campus. Enrolment for AY 93/94: 240 (Diploma in Electronics) 160 (Diploma in Mechatronics)	
Jul 1994	1st batch of students in the Diploma in Quality Engineering & Management.	
Jul 1995	1st batch of students in the Diploma in Intelligent Building Technology.	
Sep 1995	Temasek Polytechnic moved to its permanent campus in Tampines. AY 95/96 enrolment: 2,240	
Jul 1996	1st batch of students in the Diploma in Telecommunications and Diploma in Computer Engineering.	
Jan 1997	Official opening of Temasek Polytechnic's new campus at Tampines by Prime Minister, Mr Goh Chok Tong.	
Mar 1997	Appointment of Mrs Lay-Tan Siok Lie as Acting Director, School of Engineering. AY 97/98 enrolment: 4,700.	
Apr 1998	Appointment of Mrs Lay-Tan Siok Lie as Director, School of Engineering.	

Jul 1998	1st batch of students in the Diploma in Microelectronics and Diploma in Product Engineering.
Jul 2000	1st batch of students in the Diploma in Info-Communications.
Jul 2001	1st batch of students in the Diploma in Biomedical Informatics & Engineering.
Jul 2001	Launch of School of Engineering's tagline "Where the Future Happens" by Director, School of Engineering, Mrs Lay-Tan Siok Lie.
Jul 2002	1st batch of students in the Diploma in Business Process & Systems Engineering.
Jul 2003	Diploma options (e.g. Aerospace Electronics, Engineering Business, Networking, Robotics) were offered to students from the Diplomas in Electronics, Mechatronics, Info-Communications and Intelligent Building Technology.
Apr 2006	1st batch of students in the Diploma in Integrated Facility Design & Management.
Apr 2007	1st batch of students in the Diploma in Aviation Management & Services.
Nov 2007	Launch of Interactive Digital Centre Asia (IDC Asia).
Mar 2008	Launch of TP-Lufthansa Technical Training (LTT) Centre for aerospace training.
Apr 2008	1st batch of students in the Diploma in Media & Communication Technology and Diploma in Interactive Media Technology.
Apr 2009	1st batch of students in the Diploma in Aerospace Electronics, Diploma in Aerospace Engineering, and Diploma in Clean Energy.

Apr 2009	Opening of Clean Energy Research Centre (CERC).
Apr 2010	1st batch of students in the Diploma in Green Building & Sustainability and Diploma in Integrated Facility Management.
Apr 2011	1st batch of students in the Diploma in 3D Interactive Media Technology and Diploma in Infocomm & Network Engineering, as well as Common Engineering Programme, Electrical & Electronic Engineering Programme and Mechatronics & Aerospace Programme.
Apr 2012	Launch of new TP logo.
Apr 2012	TP obtained CAAS SAR-147 approval.
Sep 2012	1st batch of students in the University Preparatory Programme (UPP) for Maths & Foundation Maths modules.
Mar 2013	1st batch of students in the University Preparatory Programme (UPP) for Physics module.
Apr 2013	1st batch of students in the Diploma in Biomedical Engineering.
Apr 2013	1st batch of students for the Poly Foundation Programme for top N(A) level school leavers.
Apr 2014	1st batch of students in the University Preparatory Programme (UPP) for English module.
Jul 2015	Appointment of Mr Wong Kia Ngee as Director, School of Engineering.
Jan 2016	Launch of Temasek Aviation Academy (TAA) by Senior Minister of State, Mrs Josephine Teo.

Jul 2016	Appointment of Mr Peter Lam as new Principal and CEO of Temasek Polytechnic, taking over from Mr Boo Kheng Hua.
Apr 2017	Discontinuation of Diploma in Infocomm & Network Engineering and Diploma in Media & Communication Technology (no new intake).
Apr 2017	1st batch of ENG graduates start ELP under the SkillsFuture framework.
Jan 2018	Graduation of 1st batch of SAR-66 AML Training (Part 2) students under the CET/ELP framework.
Apr 2018	1st batch of Freshies taking the new TP Fundamentals subjects under the revamped curriculum.
Feb 2019	Launch of TP-HRG Robotics Innovation Centre by Senior Minister of State, Mr Chee Hong Tat.
Apr 2019	Discontinuation of Diploma in 3D Interactive Media Technology, Electrical & Electronic Engineering Programme, and Mechatronics & Aerospace Programme (no new intake), and Diploma in Microelectronics (no further streaming).
Apr 2019	Inclusion of Diploma in Business Process & Systems Engineering into Common Engineering Programme
Apr 2019	Transfer of Communication lecturers in ENG School to HSS School / CCS
Mar 2020	Merging of Biomedical Engineering Research Centre and Temasek Microelectronics Centre to form Healthcare Engineering Centre
Oct 2020	Launch of TP-Advanced Manufacturing Centre (TP-AMC)
Nov 2020	Launch of TP-SUTD University Pathway Programme

Apr 2021	Discontinuation of Diploma in Clean Energy
Apr 2021	Relaunch of Diploma in Green Building & Sustainability, to Diploma in Architectural Technology & Building Services

STUDENT DEVELOPMENT ROADMAP



As an engineering student, you are given ample opportunities to achieve success in your academic, personal and professional development in the school. To realise your full potential, you are encouraged to participate actively in the variety of programmes designed for you. This student development roadmap shows you how your developmental needs are provided for, as you journey through the 6 semesters in ENG School.

A Care Person (CP) will be assigned to help you through the journey in school. He/she will provide care and guidance in matters pertaining to your academic, personal and professional development in school and will meet you in the LEAP (Leadership: Essential Attributes & Practice) Care Group interaction classes from Level 1 to Level 3.

LEAP is a leadership and character education programme which consists of three core subjects, namely LEAP 1, 2, & 3. It aims to develop your leadership qualities by instilling in you the ideal attitude, skill-sets and knowledge.

STUDENT ACTIVITIES AT A GLANCE

Recurrent events organised by the School of Engineering each year.

Below is a list of the recurrent events for 2021.

MONTH	EVENT			
APRIL 2021	Freshmen OrientationCommencement of April Semester			
MAY 2021	Campus Care Network (CCN) Day			
JUNE 2021	Term Tests			
JULY 2021	Parents Connect			
AUGUST 2021	April Semestral ExaminationsAwards for Excellence Ceremony 2021			
OCTOBER 2021	Commencement of October Semester			
NOVEMBER 2021	Campus Care Network (CCN) DayParents Connect			
DECEMBER 2021	Term Tests			
JANUARY 2022	TP Open HouseJoint Admissions Exercise (JAE)			
FEBRUARY - MARCH 2022	October Semestral Examinations			

^{*} All events listed above are subject to confirmation and may be postponed or cancelled depending on circumstances.

ACADEMIC SYSTEM / GRADING SYSTEM

April Semester	Period
Term 1	19 Apr – 13 Jun 2021
Term Test	7 Jun – 11 Jun 2021
Term Break	14 Jun - 27 Jun 2021
Term 2	28 Jun - 15 Aug 2021
Study Week	16 Aug - 22 Aug 2021
Semestral Examinations	23 Aug - 3 Sep 2021
Vacation	4 Sep - 17 Oct 2021

October Semester	Period
Term 3	18 Oct - 19 Dec 2021
Term Test	13 Dec – 17 Dec 2021
Term Break	20 Dec 2021 - 02 Jan 2022
Term 4	03 Jan - 13 Feb 2022
Study Week	14 Feb - 20 Feb 2022
Semestral Examinations	21 Feb - 4 Mar 2022
Vacation	5 Mar - 17 Apr 2022

Please refer to our academic calendar page for more information: https://www.tp.edu.sg/schools-and-courses/for-current-students/academic-calendar.html

ACADEMIC SYSTEM / GRADING SYSTEM

The TP academic system offers students more depth and width in the subject offerings. The following are the main categories of subjects:

- TP FUNDAMENTAL SUBJECTS to develop desired qualities as envisioned in the TP graduate profile;
- DIPLOMA SUBJECTS to provide students with the industry relevant technical knowledge and skills training;

GRADING SYSTEM

HOW CREDIT UNITS ARE COMPUTED

For all taught subjects involving lectures, tutorials and/or practical, 1 credit unit is awarded for 15 hours of work. Hence a subject is accorded 3 credit units if it is taught over a total of 45 hours, as prescribed in the subject syllabus.

HOW GRADE POINT AVERAGE (GPA) IS COMPUTED

- A student's progress within a programme will be evaluated on the basis of the Grade Point Average (GPA). The GPA is a numerical value that indicates the student's academic achievement in the course. A minimum cumulative GPA of 1.0 is required for graduation.
- The formula for calculating the GPA is given below:

GPA= <u>Sum (credit units assigned to subject x subject grade point)</u>
Sum (credit units assigned to subject)

- The calculation of cumulative GPA (cGPA) will include all subjects with grade points (i.e. TP Fundamental subjects, Core, Electives). Any failed elective subject which is not replaced will be included in the computation of cGPA.
- Both Semester GPA and Cumulative GPA will be calculated.
- Subjects without grade point (e.g. LEAP) will not be included in the calculation of GPA.

ACADEMIC SYSTEM / GRADING SYSTEM

Letter Grades	Descriptors	Grade Points	Conversion (Percentage Range)
Z	Distinction	4	= or > 80
Α	Excellent	4	= or > 80
B+	Very Good	3.5	75 to< 80
В	Very Good	3	70 to <75
C+	Good	2.5	65 to <70
С	Good	2	60 to <65
D+	Credit	1.5	55 to <60
D	Credit	1	50 to <55
Р	Non-Graded Pass	1	= or > 50
F	Fail	0	< 50
Pass	Pass a subject with no grade point	N A	
Fail	Fail a subject with no grade point	N A	

GETTING HELP FROM AN ACADEMIC ADVISOR

An Academic Advisor can:

- Help you use the polytechnic's resources effectively to achieve your academic goals.
- Assist you in developing and implementing a meaningful educational plan so as to realise your academic potential and your career plans.
- Help you make smart choices about courses, subjects, elective options, and areas to specialise in.
- Provide you with accurate information regarding academic requirements for graduation.
- Help you to understand areas of concern that affect your academic progress.
- Identify your strengths as well as areas you may need help in.

School Academic Advising Coordinator/Chair: Sing Kar Lui (6780 6647)

School Academic Advisors:

Diploma / Course Chair		Advisor	Tolonhono	Lead Advisor
	_		Telephone	
ABS/GBS	1.	Papineni Satya Praveena	6780 5625	Papineni Satya
Wiliana Sulistio	2.	Cheng Ming Chin	6780 6688	Praveena
5612	3.	Lim Kok Hee	6780 5619	
	4.	Thong Yu Kiat, Augustine	6780 5618	
	5.	Ivan Ho Yuen Pui	6780 6711	
	6.	Koh Soo Nghee Aubrey	6780 1890	
	7.	Ang Zi Yang Adrian	6780 5507	
	8.	Shruti Pilare	6780 6708	
	9.	Sowmya Sathish	6780 4193	
AEG	1.	Sue Siew Chai	6780 5478	Sue Siew Chai
Koh Poh Tee	2.	Phang Yeh Fenn Dexter	6780 6652	
5364	3.	Lam Darence	6780 5677	
	4.	Chan Choon Keong	6780 6661	
	5.	Tiow Chee Weng	6780 5461	
	6.	Leonard Ong Yong Wah	6780 5512	
	7.	Chai Chia Hing	6780 5514	
	8.	Yeo Teck Boon, Bern	6780 6670	
	9.	Kuschel Matthias	6780 5520	
	10.	Chee Feng Ping	6780 4027	
	11.	Fong Fook Meng	6780 6668	
	12.	Sharry Ang	6780 5356	

	4	The Lei Henry Lealth or	0700 5400	Tin at Lait Lauren
AEL Tana Fanla Hann	1.	Ting Lai Horng Jacklyn	6780 5408	Ting Lai Horng Jacklyn
Tang Fook Heng 5418	2.	Low Chor Tong, Philip	6780 6610	Jackiyii
3410	3.	Ang Seng Loo Eric	6780 5583	
	4.	Ho Jiun Sien	6780 5591	
	5.	Tam Yee Keong	6780 6713	
	6.	Choo Seng Kok	6780 5592	
	7.	Tan Kok Siew	6780 5446	
	8.	Ng Kwan Wah	6780 6613	
	9.	Tan Kwang Leng Daniel	6780 5320	
	10.	L Somasundaram	6780 5602	
	11.	Tan Eng Kiam	6780 6528	
AMS	1.	Sumarni B Sarmin	6780 6687	Sumarni B Sarmin
Abbas Ismail	2.	Wong Irene	6780 4097	
5611	3.	Cyrena Cheong Yoke May	6780 5629	
	4.	Farid B Yusof	6780 5628	
	5.	Lee Wee Li	6780 5192	
	6.	Ong Cheng Leong	6780 5452	
	7.	Siow Wei Min Brandon	6780 5674	
	8.	Lee Yang Wai Alvin	6780 5163	
	9.	Darren Chua	6780 4018	
	10.	Muhammad Husain bin Alias	6780 6704	
	11.	Desmond Teck Chuan Ng	6780 5664	
	12.	Ponmagal D/O Periasamy	6780 5631	
	13.	Gary Ho	6780 5632	
	14.	Lim QIngwei	6780 5627	
вме	1.	Koo Siang Chuei	67805461	Koo Siang Chuei
Danker Adrian	2.	Kwok Siew Loong	6780 5404	
Noel	3.	Rangaswamy Raja	6780 6677	
5421	4.	Qian Xi Jun	6780 5479	
	5.	Dr Feng Hanhua	67805450	
	6.	Ngai-Yak Lay Hoon	67806623	
	7.	Sagun Cathy Padua	67805530	
	8.	Muhammad Adam Bin Abdul Rahim	67805433	

DZE	1.	Chan Eng Suan	6780 5532	Loh Yue Thong
BZE Lo Hing Loon	2.	Chong Kah Lim	6780 5651	Lon ruc mong
5529	3.	Eu Kee Hoe	6780 6498	
	4.	Loh Yue Thong	6780 5188	
	5.	Low Beng Yew	6780 5670	
	6.	Ng Lee Siam Christina	6780 5519	
	7.	Ong Chee Hong	6780 5395	
	8.	Siew Wilson	6780 6629	
	9.	Tan Hui Kuang	6780 6669	
	10.	_	6780 5527	
	11.	•	6780 5542	
	12.	Tay Yang How	6780 5543	
		, ,		
CEP	1.	Low Kian Mong	6780 5505	Chen Yoke Yeng
Mary Sojan	2.	Diong Ming Loong Christopher	6780 6635	
5407	3.	Mary Joseph	6780 5407	
	4.	Yee Mei San	6780 5608	
	5.	Lee Jillian	6780 5503	
	6.	Foong Chee Hoong	6780 4030	
	7.	Fu Ling Chen	6780 6663	
	8.	Lie Siung Tjen	6780 5468	
	9.	Tan Kow Wee Philip	6780 5465	
	10.	Simon Gani	6780 6612	
	11.	Chen Yoke Yeng	6780 5460	
	12.	Rudy Sabarudin	6780 5498	
	13.	Cha Cher Liang	6780 6638	
CEN	1.	Loh Chi Wei	6780 4171	Loh Chi Wei
Calaiselvy	2.	Lye Sau Lin	6780 5491	
6614	3.	Kerk Chong Jin	6780 6626	
	4.	Tan Hock Seng	6780 5593	
	5.	Ng Choon Seong	6780 5425	
	6.	Aung San Win	6780 5143	
CER	1.	Chong Beng Leng Fred	6780 5447	Chong Beng Leng
Efren Balajadia	2.	Toh Lee Nah	6780 5470	Fred
5633	3.	Yeo Soo Pin	6780 5442	
	4.	Zhu Shihe	6780 6609	
	1			

		Varian Tana Nai Ohaa Jaansalina	0700 5000	I/a.a. Tana Nai
ELN	1.	Kwong-Teng Noi Choo, Jacqueline	6780 5609	Kwong-Teng Noi Choo, Jacqueline
Lim Chuck Mang 5597	2.	Ramachandran, Maya	6780 5401	Onoo, Jacqueine
3391	3.	Chee Swee Ann	6780 5449	
	4.	Nagu, Naganandhini	6780 5467	
	5.	Tan Tai Suan	6780 6636	
	6.	Wong Peng Soon	6780 6615	
	7.	Adrian Heng	67806701	
	8.	Lucas Liu Yu	67882000	
	1.	Au Kian Seng	6780 5615	Loh Yeow Meng
IFM Patrick Phang	2.	Lim Joo Hoe	6780 5617	
5088	3.	Hooi-Lee Yu Hong	6780 5630	
	4.	Lim Kian Kok	6780 5162	
	5.	Au Kum Yun	6780 5566	
	6.	Loh Yeow Meng	6780 5455	
	7.	Boey Lai Yin	6780 1884	
	8.	Lim Chan Boon	6780 4264	
MTN	1.	Kwek Soo Keng, Andy	6780 5504	Irwan Bin Karim
Chan Choy Peng	2.	Derrick Boey Shee Mun	6780 6700	
5489	3.	Foo Ming Fenn	6780 6679	
	4.	Irwan Bin Karim	6780 5497	
	5.	Lew Kok Fah	6780 5490	
	6.	Loh Ray Hwee	6780 4259	
	7.	Peng Wai Meng	6780 5515	
	8.	Tay Cheng Hong	6780 6672	
	9.	Lee Sin Guan	6780 6622	
	10.	Tan Kim Cheng	6780 5638	
	11.	Shi Weixiong	6780 5985	

EXAMINATIONS & TERM TESTS

Examination Subjects

For all examination subjects, the passing criteria is based on both the continuous assessment and the examination marks. A student is deemed to have passed a subject if he/she obtains a minimum of 50% for that subject.

Non-Examination Subjects

For non-examination subjects, the assessment is based on all the course work components such as class participation, assignments, quizzes, tests and mini-projects. A student is deemed to have passed a subject if he/she obtains a minimum of 50% for that subject.

A student who is required to attend a disciplinary hearing related to a subject, may also be deemed to have failed that subject.

Attendance

The stipulated polytechnic's attendance policy requires students to fulfil at least 85% attendance. If you arrive late in class, your attendance will be computed as ABSENT even though it will be reflected as LATE in the attendance system. A student who attains below 85% attendance in a subject will be graded as 'P' (if he/she passes the subject) and 'F' (if he/she fails the subject). The P grade has a Grade point average of 1. A student who obtains a 'P' grade will not be eligible for the Diploma with Merit and the Director's Lists award (refer to Section on "Criteria for Freshmen and Junior Director's Lists).

Punctuality

Punctuality is expected of all students. With respect to all timetabled classes for which attendance is taken, late comers who come after the official start of the class will have their attendance marked as late. Being marked late in attendance is equivalent to being marked absent. That is, a lesson for which the student is marked late will not be considered part of the 85% attendance.

Rules & Regulations for Full-Time Students

You are to comply strictly with the following rules and regulations, failing which, you will be dealt with by the Disciplinary Board, and you may be suspended / expelled from the Polytechnic. Note that you are also expected to observe rules and regulations during the class or lab test.

Please click here for more information.

EXAMINATIONS & TERM TESTS

Examinations/Term Test Time-Tables

Examinations and term test time-tables are released about three weeks before the examinations/term tests start. You are strongly advised to print out a copy of your personalised time-table, which also lists the venues and assigned seat numbers for your convenience.

Examination Results

The examination results are made available to students via the student portal. You are encouraged to check your examination results online and print a copy of the Statement of Results for reference.

Please here for more information.

CRITERIA FOR FRESHMEN AND JUNIOR DIRECTOR'S LISTS

The Director's List is the School of Engineering's academic roll of honour for the top 10% of academic achievers.

FRESHMEN DIRECTOR'S LIST

Students will be considered for the Freshmen Director's List if they fulfil <u>all of the following criteria</u> listed below:

- Top 10% of the diploma cohort based on GPA for the first year of study.
- GPA will be based on <u>a list of subjects</u> (of both freshmen semesters) for <u>each</u> <u>diploma</u> (as stipulated in the course document).
- The list of subjects will <u>exclude</u> LEAP, non-graded subjects and GS2.
- Did not fail <u>any</u> subject in the main examination or assessments while studying at Temasek Polytechnic.

JUNIOR DIRECTOR'S LIST

Students will be considered for the Junior Director's List if they fulfil <u>all of the following criteria</u> listed below:

- Top 10% of the diploma cohort based on their GPA for the second year of study.
- Computation of GPA will be based on a list of subjects of both semesters 2.1 & 2.2
 (core and electives) for each diploma, according to the course structure.
- List of subjects for computation of the GPA will <u>exclude</u> LEAP, non-graded subjects and GS2.
- Must not fail <u>any</u> subject in the main examination or assessments while studying at TP. (Note that this is the same criterion for Diploma with Merit (DWM)).
- For electives: Students must complete the stipulated number of electives based on their course structure. If students have completed more than the required number of electives, all electives will be taken into consideration for computation.

WITHDRAWAL / DEFERMENT / COURSE TRANSFER / SUBJECT EXEMPTION

COURSE WITHDRAWAL

Students are strongly advised to consult their Care Person / Course Chair before exploring the option to withdraw from the course.

To withdraw, students are to:

- Complete the Course Withdrawal form.
- Settle all outstanding bills and return all property belonging to Temasek Polytechnic
- Submit the completed form together with the student's Student Matriculation card to "Student Services".

DEFERMENT OF STUDIES

Students are strongly advised to consult their Care Person/ Course Chair before exploring the option to defer their course of study.

To defer their course of study, students are to:

- Complete the Course Deferment form.
- Settle all outstanding bills and return all property belonging to Temasek Polytechnic.
- Submit the completed form together with one of the following documents:
 - <u>Deferment due to Singapore National Service (NS) obligation</u>
 NS enlistment letter or rejection letter from the Central Manpower Base regarding their appeal for NS deferment or a letter from their unit stating their ORD date.
 - <u>Deferment due to medical reasons</u>
 Medical certification letter from a Singapore-registered doctor specialising in the field, stating the medical conditions and the period of rest required.
 - <u>Deferment due to other reasons</u> Supporting documents, if any.

Note: Students are advised to attend classes while waiting for the outcome of their deferment request.

WITHDRAWAL / DEFERMENT / COURSE TRANSFER / SUBJECT EXEMPTION

COURSE TRANSFER

Only applicable for students whose status is active i.e. who have not been removed from a course and who have met the Minimum Entry Requirements of the new course.

Furthermore, course transfer is subject to individual merit and vacancies.

Requests for course transfer will be accepted after the release of the Semestral examinations results.

To apply, students are to:

- Complete the Course Transfer form
- Submit the completed form to "Student Services" by the first week of the start of the semester

APPLICATION FOR SUBJECT EXEMPTION

Only applicable to enrolled students at the start of their course of study. They are advised to check with their Course Chair or the website of their respective School for eligibility.

To apply, students are to:

- Obtain the application form from the "Student Services".
- Submit the completed form to "Student Services" by the first week of the start of the semester or within the application period.
- Note that exemption is not automatic and only one application per student per semester is allowed.

Please refer to TP's website for more information:

https://www.tp.edu.sg/admissions-and-finance/student-services.html#appli-form-svc

STUDENT CODE OF CONDUCT

At Temasek Polytechnic, students form a big part of our family. Besides helping you to succeed academically, we also care for your character development. As you go through your course of study at Temasek Polytechnic, you will face new challenges and choices and may find yourself in unexpected circumstances.

This <u>Student Code of Conduct</u> serves as a guide for your conduct in both academic and non- academic aspects of your polytechnic life. It also serves as a reminder for all of us to work towards a harmonious environment in and out of the campus, and to maintain the good reputation of Temasek Polytechnic.

STUDENT DISCIPLINARY POLICY / PLAGIARISM / COPYRIGHT ISSUES

CATEGORIES OF OFFENCES

Student offences are categorised into 3 categories, namely **Category 1, Category 2** and **Academic-Related Offences.**

Please click here for more information.

COPYRIGHT ISSUES

Copyright is a form of protection that the law provides to the authors of original creations (writing, drawing, music or art forms or even sound recordings and film) against unlawful copying. It is ILLEGAL to violate any of the rights provided by the law to the owner of a copyright. Temasek Polytechnic respects the ownership of intellectual material governed by copyright laws. All TP students are expected to know and comply with the copyright laws that affect them. Here is a list of Do's & Don'ts:

What you **CAN** do:

- Make reasonable copies of a work(s), i.e. 10% of the total number of pages in a physical edition of the work;
- Copy not more than 10% of the total number of bytes in an electronic edition of the work; or
- Make copies of not more than 1 chapter of the work.

What you must **NEVER** do:

- Photocopy an entire book/piece of work;
- Copy more than 10% of the total number of pages or more than one chapter; or
- Copy more than one article from a given periodical, unless they relate to the same subject matter.

If you are in doubt, please feel free to consult your lecturers for clarification. Please do NOT assume that it is acceptable to copy something, even if it is for your own use.

OWNERSHIP AND RIGHTS TO INTELLECTUAL PROPERTY

- 1. Ownership of all Intellectual Property (IP) discovered, created or developed by the Polytechnic Student in the course or in furtherance/fulfilment of his/her study shall vest with the Polytechnic Student unless an agreement is signed to assign the ownership to the Polytechnic or a third party (as may be directed by the Polytechnic).
- 2. The Polytechnic shall have non-exclusive, royalty-free right to use IP owned by the Polytechnic Student on a worldwide, perpetual basis for its educational, publicity, teaching, research & development purposes non-commercial in nature.

STUDENT DISCIPLINARY POLICY / PLAGIARISM / COPYRIGHT ISSUES

- 3. The Polytechnic provides various resources to Polytechnic Student to enhance his/her learning experience in the course of studies in TP. These resources include, but are not limited to, materials, equipment, facilities, expertise and access to proprietary IP subject matters which maybe privileged in nature (collectively referred to as "Resources" hereinafter).
- 4. The Polytechnic also works with industry partners and other external parties to avail attachment/internship opportunities so as to expose the Polytechnic Student to "real world" environment and avail opportunities for Polytechnic Student to participate in activities/projects from which commercially valuable IP may arise (collectively referred to as "Opportunities" hereinafter).
- 5. In consideration of the Resources and/or Opportunities provided by the Polytechnic, the Polytechnic Student agrees that all rights, titles and interests in IP discovered, created or developed by himself/herself using the Resources and/or arising from the Opportunities shall vest in and belong to the Polytechnic or a third party (as may be directed by the Polytechnic).
- 6. Where required by the Polytechnic, the Polytechnic Student shall execute any and all documents and take all actions as maybe necessary to give effect to vest full rights, titles and interests to the IP described under Paragraph 5) in favour of the Polytechnic or a third party (as may be directed by the Polytechnic). In particular, the Polytechnic Student participating in any of the following projects or activities will be required to execute a confidentiality and IP assignment agreement before the project or activity commences:
 - (a) the generation of the IP require the use of pre-existing IP owned, co-owned, or existing within the Polytechnic; or
 - (b) the IP belong to a body of IP generated by a team including Polytechnic Staff of which the Polytechnic Student is also a member; or
 - (c) the IP is generated from any form of collaboration with any external parties; or
 - (d) the IP is generated as a result of funding provided by or obtained through the Polytechnic
- 7. A Polytechnic Student may request in writing to the Polytechnic for the assignment of an IP solely owned by the Polytechnic (or jointly owned by the Polytechnic and himself/herself) to himself/herself if the said IP is an essential element necessary for:
 - (a) the Polytechnic Student's pursuit of societal or humanitarian cause which are notfor-profit in nature; or
 - (b) the Polytechnic Student's for-profit entrepreneurial endeavour and the Polytechnic Student is able to exhibit tangible plan to commercially exploit the IP
- 8. Polytechnic Students are advised to direct any question on the ownership and exploitation of Intellectual Property as described in this Section to Research & Technology Development Department (RTD) by writing to inventions@tp.edu.sg or through their supervisors.

Alternatively, students may visit TP website to chat with Ask TP chatbot > General Enquiries > Library Matters.

STUDENT DRESS CODE

Students are expected to observe a dress code, as follows:

General Occasions:

Students must be dressed in a manner appropriate of a tertiary student. This includes a neat and tidy hairdo, and appropriate clothes and footwear.

Laboratories / Workshops:

Students must comply with the stipulated dress code of the respective laboratories and workshops, for safety reasons.

Headgear:

Students must be readily identifiable at all times. Therefore, any form of headgear that prevents this is not permitted.

MEDICAL LEAVE & LEAVE OF ABSENCE

APPLICATION FOR MEDICAL LEAVE

During Examinations

Please click here for more information.

During Term Time or Term Tests

- Applications for medical leave must be submitted online via the Student Portal
 within 2 working days (excluding Saturday, Sunday and public holidays) from the last
 day of the medical leave, with a scanned copy of the Medical Certificate (MC).
 - For example, if a student is issued an MC on Monday, he should submit the MC by Wednesday in the same week.
 - ❖ Login to Student Portal > Click "Attendance" > Click "Apply / Submit MC".
- A scanned MC must be uploaded during the online application.
- Students must retain the original copy of the MC for 6 months.
- Students must submit the hardcopy MC upon request for auditing purposes.
- Only MCs issued by medical practitioners registered with the Singapore Medical Council will be accepted.
- Please note that MCs issued by Traditional Chinese Medicine practitioners will not be accepted.

APPLICATION FOR LEAVE OF ABSENCE (LOA)

- Applications for Leave of Absence (LOA) must be submitted online via the Student
 Portal at least one week before the leave date (excluding Saturday, Sunday and
 public holidays) or immediately after the date of absence for emergency cases, with
 a scanned copy of the supporting documents.
 - ❖ Login to Student Portal > Click "Attendance" > Click "Apply / Submit LOA".
- A scanned copy of the supporting document(s) must be uploaded during the online application.
- Students must retain the **original copy** of the supporting documents for 6 months.
- Students must submit the hardcopy LOA supporting document(s) upon request for auditing purposes.

The outcome of the medical leave or LOA application will be sent through the student's TP email account.

STUDENT SERVICES / TP CARES / SCHOLARSHIPS / FURTHER EDUCATION STUDENT SERVICES

The Student Services caters specifically to the needs of our students and alumni. It offers a wide range of services relating to student academic matters and enquiries. Self-service notebooks are available for students to login to access to TP's various online services, such as updating of personal particulars, retrieval of class timetable and examination results, registration for graduation ceremonies and booking of sports and library facilities.

Please refer to TP's website for more information: https://www.tp.edu.sg/admissions-and-finance/student-services.html

TP CARES

The Student Care team comprises of qualified counsellors who are always ready to lend a listening ear to the students' concerns and worries about academic progress, adjustment to life in a polytechnic, relationships or family problems. Students with financial difficulties can approach the counsellors for the various financial assistance schemes available in the polytechnic. Be it emotional, financial or social, we are right behind you in the journey of change and growth.

Please refer to TP's website for more information: https://www.tp.edu.sg/life-at-tp/a-caring-campus.html

BEFRIENDERS

Troubled by relationship issues?
Burdened with financial difficulties?
Experiencing difficulties with school work?
Think you got into the wrong course?
Want a listening ear?

If you answered "yes" to any of the above, do contact the Befrienders. They are a group of lecturers with a special passion for students' welfare. All meetings with them are treated with the strictest confidentiality.

Please contact *Ms Lim Yoke Ying, Laura at 6780 5051, email:* yokeying@tp.edu.sg who will put you in touch with a Befriender.

STUDENT SERVICES / TP CARES / SCHOLARSHIPS / FURTHER EDUCATION SCHOLARSHIPS

TP offers a range of prestigious scholarships to full-time students who have excelled academically and with a proven track record in Co-Curricular Activities.

Scholarships offered include:

- Temasek Polytechnic Engineering Scholarship
- Industry-sponsored Scholarships
- Co-Curricular Activities Scholarships
- Co-Curricular Activities Awards

FURTHER EDUCATION PATHWAYS

Temasek Polytechnic has advanced standing arrangements with a number of universities both locally and overseas. This means that our diploma holders may get to enjoy exemptions from certain university modules and hence will be able to complete their degree programme in a shorter time and at a lower cost.

Please refer to TP's website for more information: https://www.tp.edu.sg/life-at-tp/career-services.html#scholar

BURSARIES / FINANCIAL ASSISTANCE SCHEMES / NEU PC PLUS PROGAMME

BURSARIES

Bursaries are awarded to students who require financial assistance to continue their course of study at the Polytechnic. Although financial need is a criterion, a satisfactory academic performance is also a pre-requisite for selection.

Please refer to TP's website for more information: https://www.tp.edu.sg/admissions-and-finance/fees-financial-matters.html#FAS

FINANCIAL ASSISTANCE SCHEMES / BYOD FAS SCHEMES

There are a number of financial assistance schemes at TP. Should you require additional financial assistance, there are several bursary schemes available and you may apply for the most suitable bursary that you qualify for.

The BYOD FAS offers students from low income households the opportunity to own a new notebook at a highly subsidised rate.

Please refer to TP's website for more information: https://www.tp.edu.sg/admissions-and-finance/fees-financial-matters.html#FAS

NEU PC PLUS PROGRAMME

NEU PC Programme offers our students with disabilities or low income households the opportunity to own a brand new computer at an affordable price.

Please refer to IMDA website for more information: https://www.imda.gov.sg/programme-listing/neu-pc-plus

CAMPUS CARE NETWORK FUND (CCN)

Students can receive short to medium-term financial help from CCN from the following two schemes:

- 1. CCN Crisis Assistance Scheme
- 2. CCN Emergency Scheme

Please note that these CCN Financial Assistance Schemes are subject to change.

Please refer to TP's website for more information: https://www.tp.edu.sg/life-at-tp/a-caring-campus.html#campus-care-network

CAREER SERVICES / TEMASEK LEAD / SEN SUPPORT

CAREER SERVICES CENTRE

At the Career Services Centre, the focus is to help our students develop their sense of self and deepen their understanding and commitment towards the sectors that they are likely to enter after they graduate, to successfully transit to work.

Please refer to TP's website for more information: https://www.tp.edu.sg/life-at-tp/career-services.html#aboutus

TEMASEK LEADERSHIP PROGRAMME (TEMASEK LEAD)

The Temasek Leadership Programme (Temasek LEAD) is a talent development programme that aims to groom our high-performing students into leaders with vision, character and heart, beyond academic pursuits.

Please refer to TP's website for more information:

https://www.tp.edu.sg/research-and-industry/centres-of-excellence/centre-for-character-n-leadership-education-ccle.html#temasek-leadership-programmehd

SPECIAL EDUCATIONAL NEEDS (SEN) SUPPORT

TP drives inclusivity and promotes a culture of openness, understanding and mutual support for students to achieve a holistic educational experience, attain independent living skills and meaningful employment upon graduation. The SEN Support in Student Support and Career Services (SSCS) offers services and support for students with disabilities / special educational needs. Disabilities and special needs may include the following conditions:

- Physical and Sensory Difficulties (e.g. physical impairment, hearing loss and vision loss)
- Social and Behavioural Difficulties (e.g. autism spectrum disorder, ADHD)
- Learning and Language Difficulties (e.g. dyslexia)

Please refer to TP's website for more information: https://www.tp.edu.sq/life-at-tp/special-educational-needs-sen-support.html

STUDENT INSURANCE / COMMUNICATION WITH EXTERNAL PARTIES / SOCIAL MEDIA GUIDELINES

STUDENT INSURANCE

All full-time students are covered by the Student Group Personal Accident Insurance Policy. This scheme provides insurance coverage for accidents sustained by the students. The annual insurance premium is part of the total fees payable at the start of each academic year.

Please click here for more information.

COMMUNICATION WITH EXTERNAL PARTIES

Students are to seek written (letter or email) approval from their supervisor or lecturer if, in the course of their project work, they need to act as a representative of TP to communicate with any external party.

SOCIAL MEDIA GUIDELINES

Temasek Polytechnic supports and encourages its students and staff to exercise good netiquette through their dialogue with the community. The intent of the guidelines is to provide a practical and helpful framework to guide students and staff of Temasek Polytechnic in their engagement online.

Social media tools would include, but is not limited to blogs, discussion forums, micro blogs (Twitter, Facebook, and LinkedIn), photo and video sharing sites (e.g. Instagram), podcasts, RSS feeds, social networks, web chat tools and Wikis.

Please click <u>here</u> for more information.

ENGINEERING STUDENT CLUBS

STUDENT CLUBS & INTEREST GROUPS

The various Student Clubs and Interest Groups are part of the school's diploma courses. Students who are interested to be part of the main committee for these student clubs and interest groups are to contact the respective Advisors in charge, as listed in the table below:

Student Club / Interest Group	Advisor	Co-Advisor
Airborne Interest Group	Leonard Ong	
AvioniX Interest Group	L Somasundaram	
Architectural Technology & Building Services Interest Group	Wong Teck Yong	Aubrey Koh Soo Ngee
BioENGenes Interest Group	Rangaswamy Raja (Dr)	Qian Xi Jun
Business Process & Systems Engineering Interest Group	Thomas Chong	
BlackBox Interest Group	Cyrena Cheong Yoke May	Ponmagal D/o Periasamy
Computer Engineering Network Interest Group	Kok Boon Kiong	Kumbar
Clean Energy Interest Group	Toh Lee Nah	
Electronics Interest Group	Chee Swee Ann	Lucas Liu Yu
Integrated Facility Management Interest Group	Eric Lim Kian Kok	Au Kum Yun
Society of Mechatronics Engineers	Derrick Boey Shee Mun	Tay Cheng Hong
Engineering Makers Club (EMC)	Ho Peng Ching	Christopher Diong
Engineering Studies Club (ESC)	Patrick Phang Chian Wei	-
IES Student Chapter	Hu Fang	Patrick Phang Chian Wei
Student Ambassadors	Andrew Tham	-
Global Ambassadors	Wong Yoke Moon	Andrew Tham

IPPT

IPPT

The Individual Physical Proficiency Test (IPPT) is conducted for all final year NS-liable students annually. The three pre-enlistee IPPT stations are:

- Sit-ups
- Push-ups
- 2.4 km run

Final year NS-liable students can refer to the following web site for more information on IPPT test, scoring and benefits.

Please refer to website for more information:

https://www.cmpb.gov.sg/web/portal/cmpb/home/before-ns/pre-enlistment-process/pre-enlistee-ippt-and-bmi

Total Workplace Safety & Health (TWSH) Policy

Temasek Polytechnic is committed to providing a safe, healthy and sustainable working environment and practices for its staff, students, partners and the community. It seeks to instil Total Workplace Safety & Health (TWSH) ownership throughout the organisation by:

- Complying with prevailing local Workplace Safety & Health laws and regulations;
- Conducting business in a safe, healthy, responsible and sustainable manner;
- Implementing programmes and a comprehensive TWSH Management System with periodic audits to improve TWSH and to prevent workplace incidents, injuries and illnesses;
- Educating staff on TWSH operating techniques to enable competent execution;
- Continually improving in order to inculcate a world-class TWSH culture in the global education network;
- Communicating the TWSH policy to all staff and students, and making it available, to partners and the community.

Peter Lam Principal & CEO





FREE ACCESS LABORATORIES

The following laboratories are open to all engineering students to allow them to work on their assignments outside normal lab sessions.

Laboratory	Location
Basic Electronics	EN16-2-52 & EN16-1-68
Soldering	EN16-2-57 & EN16-1-68
Mechanical Workshop	EN16-1-68

Note:

For safety reasons, the Mechanical Workshop will only be open if there is a Staff present. You may refer to the signage on-site for operating hours.

Students can request through their Subject Leaders, for labs to be opened to allow them to work on their assignments outside of their normal lab sessions.

DRESS CODE IN A LABORATORY / WORKSHOP

Dress Code for Computer, Electronics, Physics and Chemistry Laboratories

- Covered shoes
- T- Shirt / Shirt / Blouse with sleeves

Dress Code for Aerospace, Mechanical and Electronic Prototyping Laboratories / Workshops

- Covered shoes
- T- Shirt / Shirt / Blouse with sleeves
- Long pants



LABORATORY SAFETY RULES & REGULATIONS

ALWAYS REMEMBER: SAFETY FIRST

IF IN DOUBT, SEEK HELP FROM THE LECTURER OR THE STAFF ON DUTY It is possible to create serious damage due to negligence – both to personnel and property.

Safety Rules

- Enter the lab only if you are accompanied by an authorized personnel.
- Listen and carry out instructions properly as directed by lecturers and staff on duty.
- Be alert and responsible at all times.
- Understand the hazards identified in the WSH-Risk Assessment and follow risk control measures.
- Read carefully and follow WSH-SWP (Safe Work Procedures), instructions and manuals.
- Wear recommended PPE (Personal Protective Equipment).
- Keep the work place clean and tidy at all times.
- Clean up the workplace and dispose any waste in the specified manner.
- Report any unsafe working conditions to the lecturer or staff on duty.
- Report any injuries, however minor, to the lecturer or staff on duty, so that the injured can be properly attended to.

Lithium Battery Safety

Do not charge Lithium batteries <u>unattended</u> (e.g. notebook computers, mobile devices, mobile power banks).

Note: Students will not be allowed to use any of the facilities in the lab if he/she has been found to infringe any of the stipulated lab rules and regulations or behaved in a manner that is deemed inappropriate.

WHAT TO DO IN A TERRORIST INCIDENT IN TP

- Call 6780 5999 (Fire Command Centre) for situations where life or property is at imminent risk (e.g. injuries, fire outbreak). Please provide exact location & contact number to request for an ambulance, if needed.
- Inform the General Office hotline at 6780 5144 and the General Office staff will contact a TWSH-Working Group member to assist in the situation.
- Stay with the injured person until help arrives.
- If necessary, accompany the injured person to the hospital or arrange for someone to accompany him/her.

For minor injuries, the injured person can be sent to the Sick Bay at **EN17-7-80**.

Useful Contacts

Nearest Hospital : Changi General Hospital

Telephone : 6788 8833 (24-hr Hotline), 6850 1770

Nearest Clinic : Green Cross Medical Centre

Telephone : 6781 3022, 6781 3011

Address : Blk. 824 Tampines St. 81 #01-30

Operating Hours : Mon-Fri, Sun (0900 – 2100), Sat (0900 – 1230)

Nearest Clinic : True Medical Clinic Tampines West

Telephone : 6909 0324

Address : Blk. 824 Tampines St. 81 #01-26

Operating Hours : Mon - Sun & PH (0800 - 1400; 1800 – 2300)

ON DISCOVERING A FIRE

- Activate the nearest break-glass alarm system.
- Attempt to extinguish the fire, without personal risk.
- If the fire is beyond control, evacuate immediately.
- Call 6780 5999 and give the exact location of the fire to the Duty Officer in the Fire Command Centre.

WHAT TO DO IN A TERRORIST INCIDENT IN TP

ON HEARING THE ALARM

Ascertain the situation and prepare to evacuate.

EVACUATION

- An announcement will be made over the Public Address System to evacuate.
- Close all windows and doors and switch off all electrical services and gas appliances.
- Evacuate in an orderly manner via the nearest emergency exit.
- Do not take lifts.
- Report at the designated Assembly Area: Tembusu Grove.
- If the escape route is cut off, go into a room with a window, closing the door behind you. Stand by the window, call for help and await rescue. The fire services will usually arrive in a matter of minutes.

Your ASSEMBLY AREA is shown in the diagram below:



Instructions for Students on







Possible Terrorist Incidents @ TP

1) Bomb Threat, Explosion, Assailant or Vehicle Attack

- Alert Police : Call 999
 or SMS 71999 or via SGSecure App
- Inform TP FCC (Fire Command Centre)
 @ 6780 5999

2) Suspicious Person & Object (incl Vehicle)

- Move to a safe distance away, at least 100m, preferably with cover & concealment (do not use mobilephone or walkie talkie in vicinity of suspicious object)
- * Alert TP FCC (Fire Command Centre) @ 6780 5999

Other Possible Terrorist Scenarios @ TP

- 3) Fire, Chemical, Biological & Radiological Attack
 - Alert SCDF : Call 995
 - Inform FCC (Fire Command Centre) 6780 59990
- 4) Racial & Religious Disputes involving
 - Inform your respective Care Persons
- 5) Radicalisation Cases
 - Contact ISD Counter-Terrorism Centre Hotline @ 1800 – 2626 - 473

DOWNLOAD EMERGENCY CALL Please tap to make an emergency call or send an emergency message 999 SMS Police 995 \odot

The SGSecure App Today!

Turn on your phone's Location Services



- Receive Alerts
- Make Emergency Calls
- Make Reports
- · eLearning Module

REMEMBER: During a Terrorist Incident



Ensure your own survival!

If you see SUSPICIOUS objects, personnel or vehicles





21 Tampines Avenue 1, Singapore 529757 Website: www.tp.edu.sg | Email: enghotline.edu.sg | Tel: 6780-5144