

## TABLE OF CONTENTS

THE TP CREATING
TOMORROW ADVENTURE

SCHOOL OF APPLIED SCIENCE (ASC)

21

SCHOOL OF DESIGN (DES)

<u>40</u>

SCHOOL OF ENGINEERING (ENG)

SCHOOL OF BUSINESS (BUS)

<u>54</u>

SCHOOL OF HUMANITIES & SOCIAL SCIENCES (HSS)

SCHOOL OF INFORMATICS & IT (IIT)

**59** 



#### Hi there!

Dare to dream big, push your limits, and unlock your full potential by reframing the world through new lenses of curiosity and courage with us at **Temasek Polytechnic** (TP).

TP's unique blend of industry-relevant training, innovation-driven projects, and life-enriching experiences nurtures you into an energised **self-directed learner** who takes initiative and is ready to tackle whatever comes your way; inspires you to become a **future-oriented creator** who embraces change and embodies a fearless entrepreneurial spirit; and turn you into a **values-centred leader** poised to make a positive impact on local societies and global communities.

So say "YES!" to joining our exciting #TPCreatingTomorrow adventure. We can't wait to help shape your story and see it come alive in your feed, your frame, and your tomorrow!

#### **Publication date: November 2025**

## YOUR FEED FRAME TOMORROW

Imagine this, future **#TPFam**. You get to do what you love with like-minded peers and learn from passionate educators who inspire you. Well, that's everyday life at TP! Each moment and experience here shapes the bigger picture of who you'll become. It's your time to step into the frame, make your mark, and start **Creating Tomorrow**, your way!





Hanging out with the awesome
Trigger Design people

#### Gain real-world wins

With TP's close industry connections, you'll have opportunities to get workforce-ready, just like Richter.

His internship at **Trigger Design** opened doors to real-world design- and sustainability-focused projects, including a collaboration with **Surbana Jurong**. He also joined the **NEA YES Leaders Programme**, creating an educational toolkit to spot mosquito breeding hotspots.

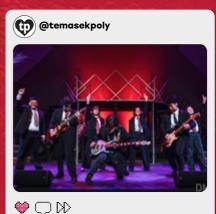
**Richter Ong**Diploma in Product & Industrial Design (now Product Experience & Design)

#### Find your tribe

CCAs are where hidden passions come alive and lifelong friendships are forged.

From rocking the stage with your crew to celebrating victories with your squad, TP's wide variety of CCAs, including sports, performance arts, and interest groups, allows you to connect with kindred spirits and turn your talents into unforgettable chapters of your life's story!





#### **Next stop? The world!**

Here, the world is your classroom! Imagine yourself travelling to **Tokyo, Japan** like these TP students who embarked on an unforgettable adventure packed with new discoveries.

They had a blast experiencing Japan's unique culture and traditions, exploring cuttingedge innovations, and gaining global perspectives through meaningful academic exchanges and discussions.



(t) @temasekpoly

 $\clubsuit \bigcirc M$ 

Soaking up the sights, sounds and sushi life





Immersed in culture and connection





BRB, exploring another reality right now





Proud to represent Team Singapore

Esben Mong (right)
Diploma in Biomedical Engineering

Ray Chu (left) Diploma in Computer Engineering





Even prouder to strike gold for our nation

#### Go for gold

There's no better way to put the skills you've gained to the test than by taking part in challenging competitions.

That's exactly what Ray and Esben did at WorldSkills ASEAN 2025. Up against the region's top youth talents, they proved their mastery and clinched the coveted gold for Team Singapore in the Autonomous Mobile Robotics category. A proud win indeed!

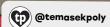
## Let's do good and feel good

You'll find plenty of chances to step out of the classroom and step up for others.

Whether it's joining the TP Family's beach clean-up events to do your part in protecting our planet or volunteering your time at the annual Toy Buffet to bring joy to underprivileged children, your acts of service go a long way to building a kinder, greener tomorrow.









 $\clubsuit \bigcirc \aleph$ 

Me, with the legend himself, PAC-MAN!



Diploma in Game & Entertainment Technology (now Immersive Media & Game Development)



At the EA Champions Cup Winter 2016 with the 3rd place winners!

## Turn passions into amazing careers!

From game player to game changer, meet Ruth, our Class of 2012 alumna. She credits her amazing **#tpcreatingtomorrow** experiences and inspiring mentors for levelling up her passion for gaming into a thriving career.

Her journey in the gaming industry includes managing FIFA Online 3 and DOTA 2 teams in international competitions, and serving as the community's voice as an expert panellist in regional events. Today, she's a Product Manager at Bandai Namco Entertainment Asia, bringing fan-favourite titles to life for a new generation of gamers.



Follow @temasekpoly and see #tpcreatingtomorrow in action!



## What's TP Fundamentals (TPFun), you ask?

Your power boost to level up in life! With your diploma training and #TPCreatingTomorrow opportunities, TPFun builds your confidence, skills, and mindset so you can thrive as a Lifelong Learner, Future Creator, and Values-centred Leader, ready for success in school, work, and life.





## Gain real-life



#### **Personal Development** & Leadership

#### **EFFECTIVE PERSONAL LEADERSHIP**

Build confidence, resilience, and values to make bold, inspiring choices to become a leader of tomorrow!

#### **SPORTS & WELLNESS**

From fitness drills to sports skills, stay active, strong, and focused, always ready for life's challenges.









#### **Global Awareness & Environmental Responsibility**

#### **GLOBAL STUDIES**

In today's connected world, acquire skills to think big and act globally. Discover new cultures, perspectives, and ways to lead with purpose across borders.

#### SUSTAINABILITY & CLIMATE ACTION

Climate change is real. Be the hero who drives eco-solutions to safeguard our planet for future generations.





#### **Critical Thinking**

#### **CURRENT ISSUES** & CRITICAL THINKING

Learn to separate facts from fakes, question assumptions, and analyse real-world issues. Debate, decide, and create your game as a changemaker.

alle

0



## **Communication Skills**

#### CAREER READINESS & COMMUNICATION

In a competitive job market, communications and teamwork matter. Gain the skills to stand out and advance your future!

#### STUDENT INTERNSHIP **PROGRAMME**

This is where it gets real. Get real industry experience, locally or overseas, and kick-start your career journey today!







#### INNOVATION

#### & ENTREPRENEURSHIP

Turn bold ideas into action! Apply design thinking, create innovative solutions, and pitch like a pro. Who knows, your idea could become the next big thing!





#### **Independent Learning** & Discovery

#### **BEYOND THE CLASSROOM: GUIDED LEARNING**

Create your own unique learning journey-pursue your curiosity, set goals, and showcase real outcomes that reflect your own growth.



### **Scholar HOLLER!**

The bond-free **TP Scholarship** offers more than financial support. It's a reward and recognition for students who excel academically, in CCAs, or in leadership roles.

Make the most of your TP experience by becoming a TP Scholar. It could spark your most exciting journey yet by unlocking your opportunity to join our Temasek LEADership Programme (Temasek LEAD). Read on to find out more!



Student Spotlight



An exemplary student, here's Hakimi with his well-deserved Director's List Award!

Receiving the TP
Scholarship (Engineering)
strengthened my resolve
to embody what it truly
means to be a TP student,
which is to embody the
spirit of a proactive
learner, a forward-thinking
leader, and a passionate
innovator.

The application process is simple, just remember to show your genuine passion and determination. Take pride in your journey, let your experiences speak for themselves, and you'll stand out in ways that truly matter.

**Nur Hakimi Bin Azlan**Diploma in Aviation Management

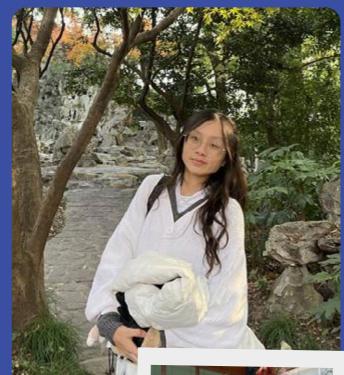
Diploma in Aviation Managemen



# LEVEL UP the leader in you

**Temasek LEAD** is TP's talent development initiative that takes our high-performing students on an inspiring journey of self-discovery. From mentorship programmes, to overseas learning trips and outdoor adventures to community projects, each experience is designed to challenge, broaden horizons, and shape our students into the leaders they're meant to be.

Student Spotlight



Thoroughly enjoyed this HBSCS illuminating mentorship session

As a Temasek LEAD student, I participated in TP's Global Engagement Programme in Finland and gained invaluable insights through the Harvard Business School Club of Singapore (HBSCS) mentorship programme.

These opportunities broadened my perspective, sharpened my leadership skills, and connected me with peers I would have never met otherwise. Temasek LEAD pushed me beyond my comfort zone and inspired real growth.

Alicia Chua Sze Hann Diploma in Marketing



For more information, scan or visit www.tp.edu.sg/tplead

Checking out Finland's fab sights with my TP friends

g

## ACHIEVING YOUR AMBITIONS STARTS WITH A TP APPLICATION



## O-Level students, your calling awaits!

#### **Early Admissions Exercise (EAE):**

If you've pinpointed your passions and the TP course that sparks your interest, jump into action in **June\*** with EAE.

Joint Admissions Exercise (JAE):
After your O-Level results drop in January\*, it's time to apply to TP and make your dreams a reality.

Scan to visit www.tp.edu.sg/olevels





## ITE students, it's your time to shine!

#### **Early Admissions Exercise (EAE[ITE]):**

If you already have your sights set on a TP course, then **June\*** is the time to make your move. Apply via EAE(ITE) to kick-start your future.

## Joint Polytechnic Admissions Exercise (JPAE):

Are you either a relevant ITE certificate holder or a graduating full-time ITE student in your final semester? Take the next step in your educational journey and apply to TP in **February\***.

Scan to visit www.tp.edu.sg/ite





## N(A) Level students, let's gear up!

## Polytechnic Foundation Programme Admissions Exercise (PFPAE):

Did you know that if your N(A) Level results are stellar, you'll receive a PFPAE application invitation in **January\***? Here's to you crushing your exams and soaring high in TP!

Scan to visit www.tp.edu.sg/pfp





Wonder what TP's all about? Here are some legit WOW facts -no fluff, just the good stuff!

# built 2 inspire

In 1991, TP appointed the world-renowned James Stirling and Michael Wilford & Associates of London to design our campus. TP's iconic architecture has been a beacon for education and innovation, inspiring generations of students to achieve their full potential for over 30 years.

## we#1

TP has been the **top-performing polytechnic** at the annual **POL-ITE Games** every year since 2010. That's over a decade of sporting dominance!

## gr8achievement

The Crowbar Awards, the region's premier design and advertising competition for young creatives, has crowned TP as the Institution of the Year for eight straight years since 2017.

# O-star excellence

TP is also a six-time Hospitality Institution of the Year winner at the World Gourmet Awards. Proof that our culinary and hospitality students are among the best in the business.

## **waste** ambitions

Among TP's many sustainability initiatives is the ability to convert waste cooking oil into biodiesel at TP's latest on-campus applied learning facility—an industry-standard Chemical Pilot Plant!



## SCHOOL OF APPLIED SCIENCE

Join the School of Applied Science (ASC) and turn your passion into future-ready careers in the vibrant healthcare, food, chemical and life sciences industries.

Build a strong STEM foundation through a common set of core modules that strengthen your scientific knowledge, laboratory practice, analytical thinking, and digital fluency when you join us in the first semester. This foundation will prepare you to take on more advanced learning and technical skills in your chosen diploma.

Develop and hone your diploma-specific competencies from the second semester onwards as you participate in intensive hands-on training, real-world projects and case studies. In your final year of study, choose from a list of industry-aligned specialisations to deepen your knowledge and expertise in your preferred discipline or cross-train in other disciplines to enhance your multi-domain exposure and learning experience. You can also gain a head start in your university education through our university pathway programmes, or enhance your industry readiness with our year-long internship programme. Our curriculum also equips you with essential life skills, such as resilience, collaboration, communication, global awareness, and innovation, which are integrated throughout your learning journey to prepare you for success in the future workforce.

At ASC, we nurture future-ready talent through exposure to work-based learning, structured internship programmes, project collaborations, as well as research opportunities. You'll also get to hone your skills working in our Learning Enterprises, which are facilities simulating real-world work environments. These include the TP Animal Clinic & Wellness, the Bistro Lab Cafeteria & Bakery, and the Aquaponics Learning Enterprise. You can also participate in our signature Differential experiential Programme (DXP), which offers opportunities to deepen or broaden your skills across domains.

Embark on your journey at ASC and become a catalyst for change in your respective industries!

.....

#### Common entry programme

· [T70] Common Science Programme

#### Full-time diploma courses

- [T33] Chemical Engineering
- · [T26] Food, Nutrition & Culinary Science
- [T64] Medical Biotechnology
- [T25] Pharmaceutical Science
- [T45] Veterinary Technology

#### General and admissions enquiries

Tel: 6788 2000

Email: admissions@tp.edu.sq

#### Course enquiries

Tel: 6780 5322

Email : aschotline@tp.edu.sg Website : www.tp.edu.sg/asc

#### For the latest tuition fees, visit:

www.tp.edu.sg/coursefees

## MINIMUM ENTRY REQUIREMENTS

To be eligible for any School of Applied Science diploma course:

English Language Grade 1 – 7

Additional Mathematics / Mathematics Grade 1 – 6

Any one of the following subjects: Grade 1 – 6

Biology, Biotechnology, Chemistry, Food & Nutrition / Nutrition & Food Science, Physics, Science (Chemistry, Biology), Science (Physics, Biology), Science (Physics, Chemistry)

For details on ELR2B2-C computation, visit: www.tp.edu.sg/elr2b2







#### The Programme

Not sure which science path to take? The Common Science Programme is designed just for you! If you are curious about science but want more time to discover where your true interests lie, this one-semester programme offers the perfect starting point.

In your first semester in ASC, you will get the opportunity to explore the different disciplines offered here through a broad-based curriculum that introduces you to the exciting world of science, ranging from chemistry and mathematics to biology. You will get hands-on experience and build a strong foundation across multiple disciplines offered by ASC. Whether you are aiming for a career in healthcare, food science, biotechnology or chemical engineering, the Common Science Programme helps you start strong and make a wise choice.

#### Guidance Every Step of the Way

To help you make an informed choice at the end of the semester, you will be invited to take part in a wide array of Education and Career Guidance activities. Immerse yourself in inspiring talks by lecturers, students and alumni, industry visits and sharing sessions by industry experts, and understand your strengths and goals through structured reflections and one-on-one course counselling.

The Common Science Programme is your launchpad into the world of science where you will gain multidisciplinary skills and scientific concepts, digital literacy in the applied science industry and competence in laboratory safety and risk assessment. Kick-start your science journey with the Common Science Programme—explore, experience and excel!

By the end of this one-semester programme, you will be well-equipped to pursue one of the following ASC diploma courses:

- [T33] Chemical Engineering
- [T26] Food, Nutrition & Culinary Science
- [T64] Medical Biotechnology
- [T25] Pharmaceutical Science
- [T45] Veterinary Technology

#### Year 1 Subjects

- · Basic Microbiology
- · Digitalisation in Applied Science
- Laboratory & Workplace Safety
- Mathematics for Applied Science
- Principles of Inorganic & Physical Chemistry

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Notes**

- Students in the Common Science Programme will take selected TPFun subjects during the programme, and complete the remaining subjects after streaming into their respective diploma courses.
- Any special health requirements for a specific diploma course will also apply if you choose to stream into that course.







#### The Course

Chemical engineers play a crucial role in the energy and chemicals, sustainability and environmental care, electronics and pharmaceuticals sectors. Chemical engineers are also at the forefront in addressing global environmental challenges such as climate change through efforts in energy optimisation, green energy, and more. In this multidisciplinary field of mathematics, chemistry, biology and engineering, you will discover how raw materials are processed to create useful products used in our daily lives. Your education goes beyond classrooms and laboratories. You will undergo skills-based learning in our state-of-the-art facilities to acquire a range of scientific and engineering skills and an internship with our industry partners to acquire real working experience.

In Year 3, you can choose to specialise in either Applied Chemistry, Sustainable Energy and Chemical Production, Pharmaceuticals & Biologics Manufacturing, Wafer Fabrication Process & Equipment Technologies or Technical Sales & Marketing. In addition, you can also choose to take university modules from either the National University of Singapore or the Singapore University of Technology and Design, shortening the time needed to get your degree! The holistic training in this course will enable you to embark on a rewarding career in various growing sectors, including petrochemical, speciality chemical, pharmaceutical, energy, semiconductor, environmental care, and sustainability industries.

#### Year 1 Subjects

- Applied Project Skills
- Basic Microbiology
- · Digitalisation in Applied Science
- Laboratory & Workplace Safety
- Mass & Energy Balance
- Mathematics for Applied Science
- Organic Chemistry & Application in Specialty Chemicals
- Principles of Inorganic & Physical Chemistry
- · Statistics for Applied Science

#### Year 2 Subjects

- Biological & Chemical Reaction Engineering
- · Chemical Thermodynamics
- · Engineering Mathematics
- Current Good Manufacturing Practice Principles & Applications
- · Process Control & Instrumentation
- · Sustainable & Safe Plant Operations
- Unit Operations
- Water & Environmental Treatment Technology

#### Year 3 Subjects

Major Project

#### ASC Elective Clusters:

- · Applied Chemistry
- Pharmaceuticals & Biologics Manufacturing
- · Structured Work-Based Learning
- Sustainable Energy & Chemical Production

- Technical Sales & Marketing (jointly offered by the Schools of Applied Science and Business)
- Wafer Fabrication Process & Equipment Technologies (offered by the School of Engineering)

#### **University Pathway Programmes**

- University Pathway Programme (SUTD)<sup>^</sup>
- NUS Pre-University Pathway Programme (Chemical and Biomolecular Engineering Programme)<sup>^</sup>
- NUS Pre-University Pathway Programme (Environmental and Sustainability Engineering Programme)<sup>^</sup>
- ^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- · Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

Upon graduation, you can take up several SkillsFuture Work-Study Programmes. These include the Specialist Diploma in Environment & Water Technology, Specialist Diploma in Energy Technology & Energy Sustainability or similar programmes. SDETES is Associate Singapore Certified Energy Manager (ASCEM) accredited, allowing you, now a busy working adult, to obtain both academic and professional certification at the same time!

You can alo pursue a degree in Chemical Engineering, Chemistry, Environmental Engineering, Material Science & Engineering or similar disciplines in any local or overseas university, and receive advanced standing at these institutions.

#### **Career Opportunities**

- · Assistant Engineer or Process Technician
- Chemist, Laboratory or Research Technologist
- Health, Safety and Environment (HSE) Specialist
- Production or Operation Supervisor
- Quality Assurance Engineer
- · Technical Services Engineer

Note: Applicants with severe visual impairment or severe colour vision deficiency may have difficulties meeting the course requirements and expectations. Please contact the School for more information.





## FOOD, NUTRITION & CULINARY SCIENCE



Scan for full details, or visit: www.tp.edu.sg/t26

#### The Course

Do you like local favourites, such as chicken rice or roti prata? Imagine making them healthier and yet delicious! Are you curious about the secrets behind meatless meat or how to interpret a food label?

Discover the science behind the foods we eat and appreciate how food science, nutrition, and culinary skills are equally important. As you get hands-on experience in our on-campus central kitchen, you'll learn to prepare healthy, delicious, market-ready and safe meals. You'll also learn how to plan and conduct community health and nutrition programmes.

In Year 3, you can specialise in Applied Nutrition, Food Technology, Future Food Technology or Technical Sales & Marketing, where you will undergo work-based training and apply your skills in relevant areas. Our strong connection with the industry provides you with opportunities for real-world learning through local or overseas internships and industry projects. Our curriculum is designed to give you the skills and competencies sought after by the food, healthcare and research sectors—so you will be ready for exciting careers in these growing industries.

Join us in our food revolution to create nutritious, sustainable, safe recipes!

#### Year 1 Subjects

- Applied Project Skills
- · Basic Microbiology
- · Basic Nutrition & Food
- · Digitalisation in Applied Science
- Food Principles in Baking Application
- · Laboratory & Workplace Safety
- · Mathematics for Applied Science
- Principles of Inorganic & Physical Chemistry
- · Statistics for Applied Science

#### Year 2 Subjects

- · Anatomy & Physiology for Nutrition
- Food Analysis & Sensory Evaluation
- · Food Principles in Culinary Application
- Food Safety & Quality Assurance
- Lifespan & Community Nutrition
- Metabolism & Medical Nutrition Therapy
- Product Development & Marketing
- Science of Food Ingredients

#### Year 3 Subjects

· Major Project

#### **ASC Elective Clusters:**

- Applied Nutrition
- Food Technology
- Future Food Technology
- · Structured Work-Based Learning
- Technical Sales & Marketing (jointly offered by the Schools of Applied Science and Business)

#### University Pathway Programme

University Pathway Programme (SUTD)<sup>^</sup>

^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

As a graduate of this course, you can take up SkillsFuture Work-Study Programmes, such as the Advanced Diploma in Applied Food Science, Specialist Diploma in Microbiology, Specialist Diploma in Nutrition & Exercise Science, or Specialist Diploma in Nutrition Science.

For local and overseas degree options, you can further your studies in Food Science, Food Technology, Nutrition, Dietetics or Culinary Science / Management, where many institutions offer advanced standing.

#### **Career Opportunities**

- Assistant Food Technologist
- Food & Beverage Coordinator
- · Junior R&D Chef
- Laboratory Technician
- Nutrition / Dietetic Technician
- · Nutrition / Health Educator
- Quality Assurance (QA) / Quality Control (QC) Executive

Note: Applicants with severe visual impairment or severe colour vision deficiency may have difficulties meeting the course requirements and expectations. Please contact the School for more information.







#### The Course

Do you want to make a difference in the world of healthcare? TP's Diploma in Medical Biotechnology is your gateway to a career that will significantly contribute to patient care and medical science. This unique program is Singapore's only diploma that equips you for the biotechnology, biomedical science, and healthcare industries.

Medical biotechnology innovatively uses living cells and cell materials for research to develop more efficient ways of maintaining and improving human health. This course also combines theory with hands-on experiences to equip you with the skills to become a versatile clinical laboratory and cardiac diagnosis professional. In Year 3, you can opt for one of the following industry-relevant Elective Clusters: Cardiology Technology, Clinical Laboratory Practice, Pharmaceuticals & Biologics Manufacturing, Translational Biological Research, Technical Sales & Marketing, Healthcare Technology, and the NTU Pathway Programme (Biological Science Programme). Your hands-on experience won't be limited to the classroom, a five-month internship program, either local or overseas, will see you apply your knowledge in real-world settings, honing your skills alongside industry professionals.

As a graduate, a myriad of exciting career paths await. As a laboratory technologist, an associate clinical research coordinator, or a cardiac technologist, you'll be entering industries that value your expertise in research institutions, biotechnology companies, hospitals, diagnostic laboratories, heart centres and cardiology clinics.

#### Year 1 Subjects

- · Applied Project Skills
- Basic Microbiology
- · Cell Biology & Biochemistry
- · Digitalisation in Applied Science
- · Human Anatomy & Physiology
- · Laboratory & Workplace Safety
- Mathematics for Applied Science
- Principles of Inorganic & Physical Chemistry
- · Statistics for Applied Science

#### Year 2 Subjects

- BioAnalytical Technology
- · Cell Technology
- Clinical Measurement
- · Haematology & Blood Banking
- · Immunochemistry
- · Molecular Biology
- Systems & Synthetic Biology
- Tissue Engineering & Regenerative Medicine

#### **Year 3 Subjects**

Major Project

#### **ASC Elective Clusters:**

- Cardiology Technology
- · Clinical Laboratory Practice
- · Heathcare Technology
- Pharmaceuticals & Biologics Manufacturing
- · Structured Work-Based Learning
- Translational Biological Research
- Technical Sales & Marketing (jointly offered by the Schools of Applied Science and Business)

#### University Pathway Programmes

- University Pathway Programme (SUTD)<sup>^</sup>
- NTU Pathway Programme (Biological Science Programme)<sup>^</sup>

^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

This diploma is recognised by all local universities, such as the National University of Singapore (Life Sciences, Medicine, Nursing, Environmental Studies), Nanyang Technological University (Biological Sciences, Biomedical Sciences and BioBusiness, Biomedical Sciences and Chinese Medicine, Business, Chemistry and Biological Chemistry), Singapore Institute of Technology (Physiotherapy, Diagnostic

Radiography, Occupational Therapy, Speech and Language Therapy), as well as universities overseas. You could also be granted between one to two years of credit and an exemption for your bachelor's degree programmes.

This diploma is accredited by the American Society for Clinical Pathology (ASCP), hence graduates can register for the certification examination of Medical Laboratory Technician (MLT). Certification courses, such as a Certificate in Phlebotomy, and SkillsFuture Work-Study Programmes, such as a Work-Study Certificate leading to a Diploma in Health Sciences (Health Management), are also available.

#### **Career Opportunities**

- Assistant Clinical Research Coordinator
- Cardiac / Echo Technologist
- Laboratory Assistant or Technical Support
- Medical Laboratory Technologist
- Medical / Scientific Sales and Marketing Executive or Product Specialist
- · Science Instructor

Note: Applicants with severe visual impairment or severe colour vision deficiency may have difficulties meeting the course requirements and expectations. Please contact the School for more information.







#### The Course

Discover the power of medicines in enhancing our lives, from relieving minor ailments to treating chronic medical conditions. With Singapore emerging as a global manufacturing hub for pharmaceutical giants, exciting career opportunities await you in the healthcare industry.

Master the complexity of medicines, their effects on the body, and their interactions and be an expert in patient counselling to unlock exciting career paths as a pharmacy technician in pharmacies. Hone your skills in pharmaceutical manufacturing, analysis and current good manufacturing practices and explore career opportunities in the pharmaceutical industry. In Year 3, choose to specialise in either the Pharmacy Practice, Pharmaceuticals & Biologics Manufacturing, Technical Sales & Marketing or Healthcare Technology elective clusters. Engage in hands-on training tailored to your specialisation and apply what you have learnt in a five-month internship programme.

Gear up to meet the Ministry of Health (MOH) Pharmacy Technician Entry-to-Practice competency standards through our curriculum. Our strong network of industry connections offers you the opportunity to embark on real-world learning experiences through local and overseas internships. Our comprehensive training ensures you gain sought-after and transferable skills for careers in various allied health professions, extending beyond the pharmaceutical science industry.

#### Year 1 Subjects

- · Applied Project Skills
- Basic Microbiology
- · Cell Biology & Biochemistry
- · Digitalisation in Applied Science
- Fundamentals of Pharmacy Practice & Pharmacology
- · Laboratory & Workplace Safety
- · Mathematics for Applied Science
- Principles of Inorganic & Physical Chemistry
- · Statistics for Applied Science

#### **Year 2 Subjects**

- Current Good Manufacturing Practice Principles & Applications
- · Human Systems & Pharmacotherapy 1
- Human Systems & Pharmacotherapy 2
- Pharmaceutical Analysis 1
- · Pharmaceutical Analysis 2
- Pharmaceutical Innovations
   & Digital Health
- Pharmaceutics & Compounding

#### Year 3 Subjects

Major Project

#### **ASC Elective Clusters:**

- · Heathcare Technology
- · Pharmacy Practice
- Pharmaceuticals & Biologics Manufacturing
- Structured Work-Based Learning
- Technical Sales & Marketing (jointly offered by the Schools of Applied Science and Business)

#### University Pathway Programmes

- University Pathway Programme (SUTD)<sup>^</sup>
- NTU Pathway Programme (Biological Science Programme)<sup>^</sup>

^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

Upon graduation, you can take up SkillsFuture Work-Study Programmes such as the Advanced Diploma in Pharmaceutical Sciences and upskilling courses in biologics manufacturing to support the growing pharmaceutical and biopharmaceutical industry.

For local and overseas degree options, you can pursue the following disciplines: Pharmacy, Pharmaceutical Science, Pharmaceutical Engineering, Pharmacology, and Health Science programmes such as Nursing, Physiotherapy, Diagnostic Radiography, Occupational Therapy, Life Sciences, Chemistry, Medicine and Dentistry, where advanced standing is offered in many of these institutions.

#### **Career Opportunities**

- · Laboratory Technician
- Pharmaceutical Sales and Marketing Executive
- · Pharmacy Technician
- Production Technician/ Assistant Biotechnologist
- Quality Assurance (QA) Assistant
- Quality Control (QC) Laboratory Analyst

Note: Applicants with severe visual impairment or severe colour vision deficiency may have difficulties meeting the course requirements and expectations. Please contact the School for more information.







#### The Course

Transform your passion for animals into a fulfilling and meaningful career path! This comprehensive course integrates theoretical knowledge with hands-on practice, empowering you to become a skilled veterinary technician. If you're harbouring aspirations in marine science or aquaculture, this programme will also lay a solid foundation for your future endeavours in these fields.

Under the guidance of our expert team, you'll receive specialised training in veterinary care, mastering essential techniques such as animal husbandry, anaesthesia monitoring, and diagnostic testing at our fully equipped and licensed TP Animal Clinic & Wellness facility. The broad-based and well-structured curriculum goes beyond to cultivate your expertise in caring for aquatic animals and pets.

With growing awareness about animal welfare issues and our pursuit of advancing medical solutions for various ailments, you'll gain a scientific grasp of the applications of laboratory animal science, with an emphasis on responsible and humane animal care practices. Further enhancing your technical proficiency, a structured 5-month internship awaits you, either within local institutions or abroad. This immersive experience can take you to veterinary research institutions, aquaculture and marine animal facilities, veterinary clinics and hospitals. Upon completing this comprehensive training, you'll be poised to tap into a wide array of career prospects spanning the aquaculture, veterinary care, and biomedical research sectors.

#### Year 1 Subjects

- · Animal Anatomy & Physiology
- Applied Project skills
- · Basic Microbiology
- · Cell Biology & Biochemistry
- · Digitalisation in Applied Science
- Laboratory & Workplace Safety
- · Mathematics for Applied Science
- Principles of Inorganic
   & Physical Chemistry
- · Statistics for Applied Science

#### Year 2 Subjects

- · Animal Genetics & Breeding
- Animal Welfare & Conservation
- Clinical Diagnostic Techniques
- · Clinical Practicum
- Principles of Animal Healthcare & Disease
- · Professional Veterinary Practice
- Veterinary Anaesthesia
   & Pharmacology
- · Veterinary Nursing Practice

#### Year 3 Subjects

Major Project

#### **ASC Elective Clusters:**

- Aquaculture
- Structured Work-Based Learning
- Technical Sales & Marketing (jointly offered by the Schools of Applied Science and Business)
- Veterinary

#### **University Pathway Programme**

 University Pathway Programme (SUTD)<sup>^</sup>

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

After you graduate, you can take up SkillsFuture Work-Study Programmes such as our Specialist Diploma in Veterinary Wellness Care, Specialist Diploma in Aquaculture Management & Technology, or other Specialist Diploma courses related to Veterinary and Life Sciences. This diploma is recognised by local universities, such as the National University of Singapore, Nanyang Technological University, Singapore Institute of Technology, Singapore Management University and Singapore University of Social Sciences, as well as overseas universities.

You can also pursue a degree in overseas veterinary-related programmes such as veterinary technology, marine science, or Zoology. For local or foreign university degrees, you can pursue Life Sciences, Health Sciences or other Science-related disciplines.

#### **Career Opportunities**

- · Animal Health Inspection Officer
- Animal Management Officer
- Aquaculture Technologist/ Technician
- Aquarist
- Laboratory Technologist/Technician
- · Pet Care Consultant
- · Veterinary Technician/ Nurse

Note: Applicants with severe visual impairment or severe colour vision deficiency may have difficulties meeting the course requirements and expectations. Please contact the school for more information.

^ For selected students

### **SUMMARY OF APPLIED SCIENCE ELECTIVE CLUSTERS**

COURSE	ELECTIVE CLUSTERS	UNIVERSITY PATHWAY PROGRAMME
ALL SCHOOL OF APPLIED SCIENCE (ASC) COURSES	Structured Work-Based Learning • Guided Work-based Learning  Technical Sales & Marketing • Business Development • Marketing of Science Products & Services	SUTD Pathway Programme  • Modelling Analysis  • Physical World  • Computational Thinking for Design  • Social Science: Understanding Behaviour, Culture & Society
[T33] CHEMICAL ENGINEERING	Applied Chemistry  Laboratory Analysis & Materials Testing  Pharmaceuticals & Biologics Manufacturing  Pharmaceuticals & Biologics Process Technology  Sustainable Energy & Chemical Production  Sustainable Energy & Chemical Processing  Wafer Fabrication Process & Equipment Technologies  Cleanroom & Vacuum Technology  Wafer Fabrication Technology	NUS Pre-University Pathway Programme (Chemical and Biomolecular Engineering Programme)  • Chemical Engineering Principles and Practice I • Chemical Engineering Thermodynamics • Mass and Energy Balances  NUS Pre-University Pathway Programme (Environmental and Sustainability Engineering Programme)  • Chemistry for an Environmentally Sustainable Future  • Environmental Challenges in the Anthropocene • Environmental Engineering Principles and Practices
[T26] FOOD, NUTRITION & CULINARY SCIENCE	Applied Nutrition	
[T64] MEDICAL BIOTECHNOLOGY	Cardiology Technology	NTU Pathway Programme (Biological Science Programme) • Equation of Life • Physiology • Microbiology
[T25] PHARMACEUTICAL SCIENCE	Healthcare Technology      Healthcare Analytics     Patient Monitoring Technology     Translational Biotechnology  Pharmaceuticals & Biologics Manufacturing     Pharmaceuticals & Biologics Process     Technology  Pharmacy Practice     Pharmacotherapy & Advanced Pharmacy     Practice	NTU Pathway Programme (Biological Science Programme)  • Equation of Life  • Physiology  • Microbiology
[T45] VETERINARY TECHNOLOGY	Aquaculture • Aquaculture Science & Technology  Veterinary • Animal Science & Technology	

<sup>\*</sup> Note: Year 3 students may select only one Elective Cluster, either from their diploma or another ASC diploma. For the latter, please refer to their corresponding career options. Not all elective clusters are offered in an academic year.



## SCHOOL OF BUSINESS

Are you intrigued by how AI, sustainability, and digital transformation are redefining the business world? Consider Netflix, a brand that started as a DVD rental service and has transformed into a global entertainment powerhouse. By harnessing AI to personalise recommendations for over 260 million users worldwide, investing in original content to stay ahead of competitors, and committing to reducing emissions by nearly half by 2030, Netflix shows how businesses can innovate, captivate audiences, and embrace sustainability all at once.

Your journey to discover how such business strategies and innovations come to life begins here at the School of Business (BUS).

At BUS, we empower you to shape your future with purpose. Choose from eight dynamic full-time diploma courses spanning Accountancy & Finance, Business, Media, Culinary Arts & Management, Hospitality, Law, Logistics, and Marketing—each designed to align with your passions and aspirations. For those still exploring, our one-year Common Business Programme with 'taster modules' offers a guided experience to help you make a confident choice.

Our curriculum emphasises practical mastery and core business disciplines, developing you into a collaborative problem-solver, clear communicator, innovative thinker, and agile professional ready for today's fast-paced environments.

Beyond textbooks, learning comes alive through industry-led projects and overseas experiential journeys, where you'll partner with businesses to co-create solutions and tackle real-world challenges.

Success in the digital economy requires more than knowing how to use AI, it demands the ability to harness it strategically. We nurture learners who generate creative insights, not just replicate machine outputs.

What this means for you at BUS:

- A future-ready education: Blend business fundamentals with Al and digital fluency, building judgment and creativity.
- Real-world engagement: Work with mentors and industry to solve real-world business challenges.
- Human-centred learning: Guided by dedicated educators who foster critical thinking.
- Access to a dynamic landscape: Tap into booming digital sectors hungry for talent, ready for graduates like you.

Your three-year journey at BUS will sharpen your innovation, entrepreneurial instincts, digital fluency, and eco-conscious mindset—preparing you to thrive in a globalised, rapidly evolving marketplace.

#### Common entry programme

• [T01] Common Business Programme

#### Full-time diploma courses

- · [T02] Accountancy & Finance
- [T10] Business
- [T40] Communications
   & Media Management
  - [T18] Culinary Arts & Management
- [T08] Hospitality & Tourism

  Management
- [T07] International Trade & Logistics
- · [T09] Law & Management
- · [T67] Marketing

#### General and admissions enquiries

Tel: 6788 2000

Email: admissions@tp.edu.sg

#### Course enquiries

Tel : 6780 5127

Email : bushotline@tp.edu.sg Website : www.tp.edu.sg/bus

#### For the latest tuition fees, visit:

www.tp.edu.sg/coursefees

## MINIMUM ENTRY REQUIREMENTS

#### To be eligible for:

[T40] Communications & Media Management [T09] Law & Management

#### **English Language**

Grade 1 - 4

### Additional Mathematics / Mathematics

Grade 1 - 7

Any one of the 1st group of Relevant Subjects for the ELR2B2-A Aggregate Type

Grade 1 - 6

#### To be eligible for:

[T01] Common Business Programme

[T02] Accountancy & Finance

[T10] Business

[T18] Culinary Arts & Management

[T08] Hospitality & Tourism
Management

[T07] International Trade & Logistics

[T67] Marketing

#### **English Language**

Grade 1 - 6

#### Additional Mathematics / Mathematics

Grade 1 – 6

Any one of the 2nd group of Relevant Subjects for the ELR2B2-B Aggregate Type

Grade 1 - 6

For details on ELR2B2-A and ELR2B2-B computation, visit:

www.tp.edu.sg/elr2b2







www.tp.edu.sq/t01

#### The Course

Are you excited about the business world but need more time, information and experience before deciding which field to pursue? Then join the Common Business Programme (CBP) - your gateway to many possibilities, shaping the bedrock of your journey toward your dream career.

The one-year CBP helps you navigate the diverse functions of the vast business landscape through our carefully curated ENhanced learning modules (EN modules) from seven diplomas offered by the School of Business. Like tasters, the EN modules allow you to explore topics across disciplines before narrowing down your focus on one diploma to pursue.

The CBP is designed with you in mind. It will:

- Equip you with a strong business foundation knowledge spanning diverse business domains.
- Allow you to experience subjects from different disciplines, such as accounting, business management, marketing, and other essential aspects of business, to help you make a well-informed decision when choosing a diploma suited to your passions and aspirations.
- Give you time to explore your strengths, interests, and passion through education and career guidance to equip you with greater self-awareness before deciding on a diploma to pursue.
- Empower you with the opportunity to select from seven business related diploma courses according to your interests and goals. These diploma courses include:
  - [T02] Accountancy & Finance
  - [T10] Business
  - [T18] Culinary Arts & Management
  - [T08] Hospitality & Tourism Management
  - [T07] International Trade & Logistics
  - [T09] Law & Management
  - [T67] Marketing

#### Notes:

- 1. CBP students who opt for the Diploma in Culinary Arts & Management will stream into the course in Year 1 Semester 2.
- 2. CBP students who opt for the other six courses will make their diploma selections at the end of Year 1 Semester 2, and progress to their selected diploma courses in Year 2.
- 3. CBP students who opt for the Diploma in Law & Management must meet a minimum B4 grade for English Language (EL1).
- 4. Please see the sections on these diploma courses for more information.

#### **Programme Subjects**

#### **Business Core Subjects**

- **Business Accounting**
- **Business Economics**
- Business Psychology & Management
- Business Technology & Analytics
- Marketing Fundamentals
- Statistics for Business

#### Elective Subjects (Choose 2)

- **Business Law**
- Finance & Accounting for Decision Making
- Global Economics
- Introduction to Hospitality & Tourism
- Legal Methods
- Legal Systems
- · Supply Chain Management & Technology
- Tourism Geography Visual Communication

# **PROGRAMME**

Scan for full details, or visit:

#### Note

Students in the Common Business Programme will take selected TPFun subjects during the programme, and complete the remaining subjects after streaming into their respective diploma courses.

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- · Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

· Beyond the Classroom: Guided Learning







#### The Course

Ready to take charge of your future? The Diploma in Accountancy & Finance is your launchpad into a future where we turn numbers into strategy and decisions into long-term impact.

This comprehensive programme brings together accountancy, finance, sustainability and technology, equipping you with the skills to influence businesses, transform industries, and lead with purpose. Accountancy and finance today is more than just numbers. It's about driving growth, shaping key decisions and creating lasting value. As the world rises to the challenge of climate change, a powerful new frontier is emerging—one where accountancy and finance are fuelling a sustainable future. With Singapore leading this global transformation, you will be ready to take the lead and make your mark.

We believe the best way to learn is by doing. You will gain invaluable hands-on experience through real-world client projects, competitions, industry mentorships and internships with top companies. This is your opportunity to put learning into practice and be ready for the real world.

#### Year 1 Subjects

- **Business Accounting**
- **Business Economics**
- Business Psychology & Management
- Business Technology & Analytics
- Marketing Fundamentals
- Statistics for Business

#### Elective Subjects (Choose 2)

- **Business Law**
- Finance & Accounting for **Decision Making**
- Global Economics
- Introduction to Hospitality & Tourism
- Legal Methods
- Legal Systems
- Supply Chain Management & Technology
- Tourism Geography
- Visual Communication

#### Year 2 Subjects

- Accounting Information Systems, AI & Automation
- **Applied Analytics**
- Corporate Accounting & Reporting
- Financial Accounting
- Financial Management
- Fintech & Risk Governance
- Investments
- Management Accounting
- Taxation

#### Year 3 Subjects

- Audit & Assurance
- Financial Planning
- & Wealth Management
- Sustainable Finance
- Sustainability Reporting

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

Beyond the Classroom: Guided Learning

#### **Further Studies**

The Diploma in Accountancy & Finance gives you a robust foundation for university and professional certifications.

#### Local University Pathways:

Get admission and course exemptions from top universities in Singapore. Our students have pursued degrees and double degrees in the following university programmes:

- Bachelor of Accountancy
- · Bachelor of Business
- · Bachelor of Business Management
- Bachelor of Business Administration
- · Bachelor of Science in Finance

#### **Professional Certifications:**

Our students enjoy exemptions from professional certifications including the ISCA Singapore Chartered Accountant Qualification as well as professional associations such as the Association of Chartered Certified Accountants (ACCA), Chartered Institute of Management Accountants (CIMA), and Institute of Chartered Accountants in England and Wales (ICAEW), giving you a fast-track to becoming a certified public accountant in Singapore.

#### **Career Opportunities**

The Diploma in Accountancy & Finance equips you with future-ready skill sets in many exciting growth areas:

- Auditing & Assurance
- Corporate Banking
- Financial Accounting
- Financial Analytics
- Financial Planning
- Fintech & Digital Finance
- Green Finance
- · Internal Audit
- Management Accounting
- Risk Management
- Sustainability Reporting
- Wealth Management

You will also gain transferable skills relevant to these in-demand job roles:

- · Business Analytics
- **Business Development**
- Digital Transformation
- Project Management
- **Product Innovation**







#### The Course

Our Diploma in Business offers a dynamic and future-oriented curriculum designed to cater to the evolving demands of industries in Singapore and the broader region. Through personalised learning experiences, we equip you with multidisciplinary and transferable skill sets necessary to excel in a rapidly changing workforce and thrive in diverse roles and industries.

**Elective Clusters:** You will deepen your specialisation in one of the three elective clusters—Human Resource, Banking & Finance, and Business Operations & Digitalisation—allowing you to focus on your areas of interest and strengths.

**Professional Development:** Through collaborations with industry partners such as Enterprise Singapore, National Heritage Board, PERSOL, SAP, SGTech and Singapore National Employers Federation, Society for Human Resource Management and Workato, you will benefit from professional development opportunities and industry certifications, enhancing your learning with real-world insights and connections.

**Internship Programmes:** You can participate in structured internship programmes and year-long guided work-based immersions, both locally and overseas, gaining valuable practical experience and exposure to diverse business environments.

Hands-On Learning: Our fully operational PERSOL Career Centre on campus provides you with exciting hands-on learning experiences led by professional practitioners, offering realistic training within the School of Business.

#### Year 1 Subjects

- · Business Accounting
- Business Economics
- · Business Psychology & Management
- Business Technology & Analytics
- · Marketing Fundamentals
- · Statistics for Business

#### **Elective Subjects**

· Business Law; and

#### (Choose One)

- Finance & Accounting for Decision Making
- Global Economics
- Introduction to Hospitality & Tourism
- · Legal Systems
- Legal Methods
- Supply Chain Management & Technology
- Tourism Geography
- Visual Communication

#### Year 2 Subjects

- Applied Analytics
- Business Development
- Business Finance
- Computational Thinking for Business
- Introduction to Processes & Systems
- · People & Culture

#### **Year 3 Subjects**

- Guided Work-Based Learning (optional)
- Major Project
- · Sustainability & Business Agility

#### Students will take subjects in their Year 2 and 3 of studies based on one of the following three elective clusters:

- 1. Banking & Finance
- Human Resource—accredited by the Society for Human Resource Management, a globally recognised professional HR membership association
- 3. Business Operations & Digitalisation

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- · Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

There are countless local and overseas opportunities for graduates to pursue further studies or professional certifications. You can also explore the SkillsFuture Work-Study Programmes for a head start in careers related to your field. Additionally, the SkillsFuture initiative offers post-diploma courses under the Continuing Education & Training (CET) programme for continued learning and career development.

#### **Career Opportunities**

- Accounting
- · Banking & Finance
- Business Analytics
- Business Development
- HR Business Partnership
- Compensation & Benefits
- Talent Acquisition
- Learning & Development
- Employee Relations
- · Business Operations
- Digital Transformation
- Process Improvement
- Project Management







#### The Course

Step into the exciting world of media and communications, where your words, images and stories hold the power to captivate audiences and shape narratives. Our course helps you master the art of storytelling and multimedia production. You will learn to plan content with impact in a tech-driven world.

This course also integrates generative AI, teaching you its principles and practical uses in content creation and data analysis. You'll gain hands-on experience and develop ethical skills in AI tools for a successful career.

Join our Content Creation Club to collaborate with peers and produce exciting editorial and edutainment content for various media channels. Real-world projects with industry partners will help you build teamwork and project management skills, bridging the gap between theory and practice. Get ready to make your mark!

#### Year 1 Subjects

- · AI & Data Analytics
- · Business Accounting
- · Business Economics
- · Business Psychology & Management
- Journalism Fundamentals
- · Marketing Fundamentals
- Media Writing
- Professional Presence & Delivery
- · Visual Communication

#### Year 2 Subjects

- · Audio Content Creation
- Campaign Planning & Content Strategy
- Community & Stakeholder Engagement
- · Creative Lab
- Media Law
- Media Research & Insights
- · Video Content Creation
- Work-Integrated Learning

#### Year 3 Subjects

## Students will choose between two elective subjects in their Year 3 of studies:

- Maior Proiect, OR
- · Guided Work-Based Learning

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- · Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

There are countless local and overseas opportunities for graduates who want to pursue further university studies or professional certificates. As a graduate, you could also consider the SkillsFuture Work-Study Programmes, which are designed to give fresh polytechnic graduates a head start in careers related to their discipline of studies. In addition, our graduates can ride on the SkillsFuture initiative to pursue postdiploma courses under the Continuing Education & Training (CET) programme.

#### **Career Opportunities**

- · Communications Specialist
- Content Producer
- Content Strategist
- Digital Marketing Executive
- Journalist
- Mediapreneur
- Public Relations Specialist
- Radio/TV Producer
- Social Media Executive







#### The Course

The Diploma in Culinary Arts & Management is a refreshed and future-ready course designed to nurture the next generation of culinary leaders. First established in 2006, this pioneering diploma blends Culinary Arts, Baking & Pastry and Restaurant Operations with business and management skills—equipping you with both creative flair and commercial acumen to thrive in today's fast-evolving food landscape.

Learning goes beyond the classroom. You'll gain hands-on experience at our newly renovated, award-winning **Temasek Culinary Academy\***, featuring state-of-the-art kitchens, a chocolate studio, training restaurants, and an urban herb garden. With strong industry partners, you'll also have the opportunity to take part in local and overseas programmes that expose you to diverse cuisines, cultures and culinary practices.

In your final year, a 24-week internship with leading F&B establishments will prepare you for specialised roles such as chef de partie, pastry chef, mixologist or assistant restaurant manager. If you aspire to lead or own a food business one day, this diploma equips you with knowledge in food business innovation, digital marketing, and revenue management. Take the next step towards becoming a tastemaker of tomorrow—with a business-minded edge to help you succeed in the world of culinary arts.

\*The Temasek Culinary Academy (TCA) has been a Centre of Excellence for Food Service skills training since 2007; it was recently refreshed and renovated in 2024. TP is also a six-time Hospitality Institution of the Year winner.

#### **Year 1 Subjects**

- · Business Accounting
- · Business Economics
- Business Psychology & Management
- Business Technology & Analytics
- Food Safety & Culinary Essentials
- · Nutrition & Health
- · Statistics for Business
- · Sustainable Food Systems
- Work Integrated Learning

#### Year 2 Subjects

- Baking & Pastry Practicum
- Culinary Practicum
- Digital Marketing
- · Food & Beverage Cost Management
- · Food & Beverage Management
- Service Practicum

#### **Year 3 Subjects**

 Food & Beverage Productivity & Revenue Management

## Students will take subjects in their Year 2 of studies based on the following two elective options:

- Baking & Pastry Practicum
- Culinary Practicum

## Students will take subjects in their Year 3 of studies based on one of the following two elective clusters:

- Applied Learning
- · Food Business

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

There are countless local and overseas opportunities for graduates who want to pursue further university studies or professional certificates. Our diploma is well-recognised by many renowned universities and institutions, such as the Singapore Institute of Technology (SIT) and the Culinary Institute of America (CIA). As a graduate, you could also consider the SkillsFuture Work-Study Programmes, which are designed to give fresh polytechnic graduates a head start in careers related to their discipline of studies.

In addition, our graduates can ride on the SkillsFuture initiative to pursue post-diploma courses under the Continuing Education & Training (CET) programme.

#### **Career Opportunities**

- · Assistant Outlet/Restaurant Manager
- · Chef de Partie
- · Food Service Associate
- Hawkerpreneur
- Mixologist
- · Pastry Chef
- · Sous Chef
- Sommelier

Note: Students will be exposed to a wide variety of products including alcohol, meats (e.g. beef and pork) and their byproducts. Our kitchens and restaurants are not Kosher or Halal certified. Although tasting is optional, students are required to handle and serve these products, as well as wash non-Kosher / Halal equipment. Applicants with medical conditions and/or physical disabilities, which affect safety and sanitation practices, or the wearing of prescribed uniforms should declare them, and submit a qualified doctor's certification of fitness for enrolment. Students will also need to purchase cookbooks, uniforms, knife set etc., which are not included in the tuition fee.







#### The Course

As the pioneer polytechnic diploma for the hospitality and tourism sectors in Singapore, TP's programme sets the benchmark for industry-relevant training, preparing you to be job-ready from day one.

With a network of over 10,000 successful alumni, the Diploma in Hospitality & Tourism Management (HTM) opens doors to a wide range of careers across the dynamic hospitality, tourism, and events sectors—from luxury hotels and airlines to attractions, MICE, and international event companies. This isn't just another hospitality course. HTM is a comprehensive programme that combines core business fundamentals with real-world, practical experience. You will develop a global mindset and build essential interpersonal and communication skills to thrive in a digital-first world.

To further enrich your learning journey, HTM offers work-integrated learning opportunities, overseas study trips, and overseas internships in sought-after destinations such as New Zealand and Hong Kong—ensuring you graduate with both local insights and international exposure.

#### Year 1 Subjects

- · Business Accounting
- Business Economics
- · Business Psychology & Management
- · Business Technology & Analytics
- Introduction to Hospitality & Tourism
- · Marketing Fundamentals
- · Statistics for Business
- · Tourism Geography
- Work-Integrated Learning 1

#### **Elective Subjects**

 Introduction to Hospitality & Tourism; and

#### (Choose One)

- · Business Law
- Finance & Accounting for Decision Making
- · Global Economics
- · Legal Systems
- · Legal Methods
- Supply Chain Management & Technology
- Tourism Geography
- · Visual Communication

#### Year 2 Subjects

- Airline Business
- · Customer Experience Innovation
- Digital Marketing
- · Event Design & Innovation
- Lodging Operations
- Personal Branding
- · Sales & Negotiation
- Service DNA
- · Work-Integrated Learning 2

#### **Year 3 Subjects**

- · Destination Planning
- Major Project
- · MICE Management & Sustainability
- · Sustainable Gastro-Tourism

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- · Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

Graduates of the HTM diploma have various pathways for further studies both locally and abroad. Degree options include the exclusive "3+1 Degree Programme" with Jeonju University in South Korea, allowing completion in just one additional year. Credit exemptions are also available at prestigious universities such as the University of Las Vegas (USA) and Jeonju University (South Korea) with scholarships, EHL (Switzerland), and local institutions including NUS, NTU, SMU, SIT, and SUSS.

For those interested in event planning, TP offers a Specialist Diploma in MICE & Events Management, ideal for gaining expertise in Singapore's vibrant conventions and meetings industry. These options provide multiple routes for our graduates to advance their education as well as career.

#### **Career Opportunities**

Frontline and executive positions at:

- · Airlines and Airports
- Cruise Companies
- · Food and Beverage Businesses
- Hotels, Resorts and Serviced Residences
- Leisure Attractions
- Meetings, Incentives, Conferences, Exhibitions (MICE) and Events Management Companies
- · National Tourism Organisations
- Tour and Travel Businesses

You'll also be equipped with transferable knowledge and skill sets for in-demand iob roles such as:

- Business Development
- Customer Experience
- Customer Service
- Digital Marketing
- · MICE and Event Planning
- · Sales and Marketing
- Social Media Marketing and Content Creation
- Tour Planning and Storytelling
- · Wellness and Sustainability







#### The Course

Ever wondered how your mobile phone finds its way into your hands? Get a closer look behind the scenes and dive into the global network where you'll acquire skills that will help move everything from a tiny vial of vaccine to massive 35-tonne wind turbine blades that power our green and sustainable future. In today's fast-paced world, logistics is the lifeline that ensures goods of all sizes are delivered efficiently and sustainably.

This course is your gateway to a dynamic industry, with the School of Business being the first in Singapore to launch a logistics-related diploma. You will build a solid business foundation and gain specialised knowledge in key areas like freight forwarding, supply management, and eco-friendly logistics. With a focus on digitalisation and sustainability, you will acquire the skills needed to navigate the complexities of international trade and supply chain management while keeping an eye on the future of global trade. Learning is hands-on and immersive. Through real-world projects, you will learn to plan the transport of a wide range of goods, balancing efficiency with environmental responsibility. In addition, you will have the opportunity to compete in prestigious events, such as WorldSkills, with dedicated coaching from the national chief expert, as well as supply chain case competitions that showcase your in-demand skills in logistics.

Our close partnerships with industry champions, such as the Singapore Logistics Association (SLA) and the Singapore Aircargo Agents Association (SAAA), and key industry players provide invaluable internship and career opportunities for our students, giving you a front-row seat to the logistics industry. Graduates from our course will be ready to plug into the exciting world of international trade and logistics, making a meaningful impact in a world that's always on the move.

#### Year 1 Subjects

- · Business Accounting
- · Business Economics
- Business Psychology & Management
- Business Technology & Analytics
- · Marketing Fundamentals
- Statistics for Business
- Supply Chain Management & Technology

#### Year 2 Subjects

- Applied Analytics
- Business Process Improvement Methods
- Chemical & Cold Chain Logistics
- Distribution Centre Management
- Distribution Centre Management
   Enterprise Resource Management
- International Finance
- International Trade & Digitalisation
- · International Trade & Transport
- · Procurement & Materials Management

#### Year 3 Subjects

- · Applied Project
- International Freight & Trade Compliance

## Students will take subjects in their Year 3 of study based on following two elective clusters or Structured Work-Based Learning:

#### **E-Commerce Logistics**

- Business Development
- Urban Logistics & E-Commerce

#### Manufacturing Logistics

- · Industrial IoT Analytics
- · Manufacturing Logistics & Simulation

#### 0

#### Structured Work-Based Learning

· Guided Work-Based Learning

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- · Sports & Wellness
- · Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

There are countless local and overseas opportunities for graduates who want to pursue further university studies or professional certificates. Our diploma is well-recognised by local universities such as NUS, NTU, SIT, SMU, SUSS and SUTD, as well as many other overseas universities.

As a graduate, you could also consider the SkillsFuture Work-Study Programmes, which are designed to give fresh polytechnic graduates a head start in careers related to their discipline of studies. In addition, our graduates can ride on the SkillsFuture initiative to pursue post-diploma courses under the Continuing Education & Training (CET) programme.

#### **Career Opportunities**

Executive and supervisory positions in:

- · Account Management
- Business / Supply Chain / Trade Analysis
- Chemical and Cold-Chain Logistics
- · Customer Service
- · E-Commerce Fulfilment
- Import / Export Operations
- Inventory Planning
- Purchasing and Materials Management
- Shipping / Transport
- · Wholesale Trade / Maritime Business







#### The Course

The original polytechnic law diploma in Singapore, this course equips you with relevant knowledge and hands-on skills for a career in the legal industry as an allied legal professional.

Theoretical and procedural law subjects are built upon a strong foundation in business—communication skills, management, accounting, economics, technology, and marketing. Lifelong skills such as innovation, entrepreneurship and a global mindset are part of the training you'll receive. You'll also be trained to use the latest Legal Technology applications, ensuring you're adept at the technology that is transforming legal practice.

With a multidisciplinary approach led by lecturers with years of industry experience, we will equip you with the skills to comprehensively manage complex issues and add value to the legal profession.

The course is strongly supported by key industry partners such as the Singapore Academy of Law and the Law Society of Singapore. An 18-week internship provides realistic on-the-job training with law firms and legal departments in public and private organisations, enabling you to sharpen your mind and deepen your understanding of the legal industry.

Upon graduating from this course, you'll be an intuitive communicator and well-placed to start a fulfilling career in the legal industry with a practical approach to the world.

#### Year 1 Subjects

- · Business Accounting
- · Business Economics
- Business Psychology & Management
- Business Technology & Analytics
- Legal Methods
- · Legal Systems
- Marketing Fundamentals
- · Statistics for Business

#### Year 2 Subjects

- Company Law
- · Conveyancing Law & Procedure
- Criminal Law
- · Family Law
- · Law of Contract
- · Law of Tort
- · Legal Innovation & Technology
- · Legal Skills

#### Year 3 Subjects

- Civil Procedure
- · Corporate Secretarial Administration
- Criminal Procedure
- · Intellectual Property
- Legal Operations & Sustainability Management

## Students will take two out of three elective subjects in their Year 3 of studies:

- Governance, Sustainability & Compliance
- Legal Innovation & Sustainability Project
- · Trusts & Advance Personal Planning

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

Beyond the Classroom:
 Guided Learning

#### **Further Studies**

There are countless local and overseas opportunities for graduates who want to pursue further university studies or professional certificates.

As a graduate, you could also consider the SkillsFuture Work-Study Programmes, which are designed to give fresh polytechnic graduates a head start in careers related to their discipline of studies. In addition, our graduates can ride on the SkillsFuture initiative to pursue post-diploma courses under the Continuing Education & Training (CET) programme.

#### **Career Opportunities**

- · Court Officers
- Intellectual Property Managers
- · Law Office Managers
- · Lay Prosecutors
- · Legal Technologists
- · Paralegals / Legal Executives
- Management Executives







#### The Course

How did Apple become one of the world's most recognisable and loved brands? The answer lies in the power of marketing—the art and science that shape consumer perceptions and keep brands ahead of the competition through the management of the 4Ps: Product, Price, Promotion, and Place.

As the only polytechnic marketing diploma in Singapore, this course equips you with the knowledge and in-demand skills to thrive as a digitally savvy, agile marketer with a green mindset, preparing you for success in today's Al-powered digital economy.

The course builds essential marketing expertise to develop well-rounded marketers, aligned with industry trends, technological shifts and innovations. You'll gain customer and market insights by leveraging consumer psychology and analytics, while mastering digital marketing, branding, storytelling, content creation, communications, and sustainability in marketing, as you experiment with the latest marketing technology (MarTech) tools, from Generative AI to next-gen apps that let you create, analyse and test bold marketing ideas.

Engage in gamified modules and simulation games that make learning dynamic and interactive, motivating you to apply your knowledge to assignments and projects. Work on real-world client projects with brands such as Starbucks, Nespresso, Razer and Frasers Property. Broaden your exposure through industry engagements, certifications from Google, HubSpot and LinkedIn, and eye-opening overseas learning trips and student internships.

#### Year 1 Subjects

- · Business Accounting
- Business Economics
- Business Psychology & Management
- Business Technology & Analytics
- · Marketing Fundamentals
- Statistics for Business

#### **Elective Subjects**

· Visual Communication; and

#### (Choose One)

- Business Law
- Finance & Accounting for Decision Making
- Global Economics
- Introduction to Hospitality & Tourism
- Legal Systems
- Legal Methods
- Supply Chain Management & Technology
- Tourism Geography

#### Year 2 Subjects

- Applied Analytics
- Building & Managing Brands
- Consumer Psychology & Insights
- · Creativity & Marketing Innovations
- Digital Marketing
- Digital Marketing Strategy & Analytics
- E-Commerce Management
- Marketing Communications & Public Relations
- · Product Marketing

#### **Year 3 Subjects**

- · Major Project
- Sustainable Marketing

## Students will take one out of the following subjects in their Year 3 of studies:

- · Brand Storytelling
- · Business Development
- Contemporary Topics in Digital Marketing
- · Experiential Marketing

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

Beyond the Classroom:
 Guided Learning

#### **Further Studies**

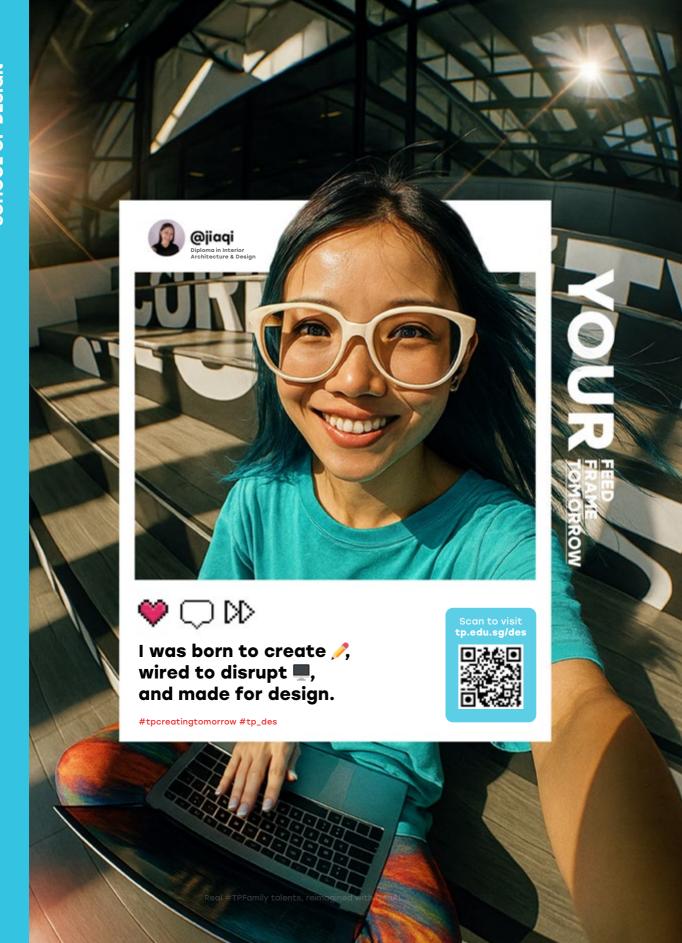
There are countless local and overseas opportunities for graduates who want to pursue further university studies or professional certificates.

As a graduate, you could also consider the SkillsFuture Work-Study Programmes, which are designed to give fresh polytechnic graduates a head start in careers related to their discipline of studies. In addition, our graduates can ride on the SkillsFuture initiative to pursue post-diploma courses under the Continuing Education & Training (CET) programme.

#### **Career Opportunities**

Executive positions in:

- Brand management
- Business development
- Digital marketing
- · E-commerce
- · Marketing communications
- Marketing research and analytics
- · Public relations
- Social media marketing and content creation



## SCHOOL OF DESIGN

As the first design school established in a polytechnic in Singapore, TP School of Design has long set the benchmark for excellence in design education. Today, we are widely recognised as the nation's leading name in design education.

#### Why Design Matters More Than Ever

Design is no longer confined to traditional creative fields. Today, designers play strategic roles in healthcare, finance, logistics, and public service—bringing human-centred thinking and creative problem-solving to sectors undergoing rapid change<sup>1</sup>. In Singapore, over 60% of design professionals now work outside the design industry<sup>2</sup>.

Creativity, too, is evolving. With Al and other emerging technologies, it's no longer just about aesthetics. It's about solving problems, thinking across systems, and adapting to change<sup>3</sup>. As a student here, you will learn to use Al as a creative tool and collaborative partner, enhancing ideas, streamlining processes, and exploring new modes of expression thoughtfully and responsibly.

In this changing landscape, designers who are adaptable, interdisciplinary, and purposeful will be the ones who lead change.

#### A Curriculum Designed for a Changing World

Your education begins with our semester-long Design Foundation. Here, you will build essential mindsets, methods, and tools across creative disciplines. It grounds you in core skills while introducing domain-specific knowledge to help you develop both breadth and depth as you progress into your diploma specialisation.

As you progress, you will personalise your journey through Elective Clusters in Creative Technology, Experience & Innovation, Digital Content Creation, Brand Marketing, and Creative Ventures. These clusters align with industry trends and future-of-work needs, enabling you to explore hybrid skill sets beyond your core discipline—from designing Al-enabled experiences to driving cross-sector innovation to cultivating an entrepreneurial mindset.

Industry engagement is central to your learning. You'll work on live briefs with our industry partners and gain workplace experience through extended internships that sharpen your practice, build confidence, and prepare you to graduate with a real-world-ready portfolio.

All of this is anchored in our studio-based learning philosophy. You will learn by doing—through experimentation, critique, collaboration, and reflective practice. In our design studios, you will work closely with lecturers who guide you to think through design and design through thinking. It is this balance of rigour and play, concept and craft, that shapes graduates who are both distinctive and in demand.

#### **Designing the Future**

Here, we will empower you to be imaginative, inquisitive about the world, courageous in exploring new paths, and grounded in a clear sense of purpose—using design to make a difference. These values—curiosity, courage, and purpose—define who we are, how we teach, and the kind of designer you will become.

#### Sources:

- 1. https://reports.weforum.org/docs/WEF\_Future\_of\_Jobs\_Report\_2025.pdf
- $2. \ \ https://designsingapore.org/wp-content/uploads/2025/02/NDIMS-2021\_2022-Summary-Report.pdf$
- 3. https://jobsandskills.skillsfuture.gov.sg/sdfe-2025-published/assets/files/SSG\_2024\_12.pdf

#### Common entry programme

• [T71] Common Design Programme

#### Full-time diploma courses

- [T59] Communication Design
- · [T23] Digital Film & Television
- · [T20] Fashion Management & Design
- [T22] Interior Architecture & Design
- [T35] Product Experience & Design

#### General and admissions enquiries

Tel: 6788 2000

Email : admissions@tp.edu.sg

#### Course enquiries

Tel : 6780 5133

Email : deshotline@tp.edu.sg Website : www.tp.edu.sg/des

#### For the latest tuition fees, visit:

www.tp.edu.sg/coursefees

Note: In the course of their studies, students may need to acquire certain equipment and accessories e.g. laptops, photographic accessories etc., to fully benefit from their educational experience at TP School of Design.

## MINIMUM ENTRY REQUIREMENTS

To be eligible for any School of Design diploma course:

English Language Grade 1 – 7

Additional Mathematics / Mathematics Grade 1 – 7

Any one of the 2nd group of Relevant Subjects for the ELR2B2-D Aggregate Type Grade 1 – 6

For details on ELR2B2-D computation, visit: www.tp.edu.sg/elr2b2







#### The Course

Designers are natural explorers—drawn to new ideas, diverse cultures, and creative possibilities. The Common Design Programme (CDP) offers you a focused introduction to design, grounding you in essential skills while giving you time to explore your interests before selecting one of five diploma specialisations.

You will begin your journey with the semester-long Design Foundation, where you will build core mindsets, methods, and tools across creative disciplines. This shared foundation helps you grow both breadth and depth in your creative abilities, while equipping you with the confidence to navigate diverse design fields.

As a CDP student, you will also experience a dedicated Diploma Exposure Programme curated exclusively for your cohort. You will attend hands-on workshops, hear from seniors, and visit companies to gain an insider's view into different design disciplines. Through these experiences, you will discover your strengths and interests, with support from Education and Career Guidance (ECG) to help you make an informed choice. At the end of your first semester, you will progress into one of five diploma pathways

- · [T59] Communication Design
- [T23] Digital Film & Television
- · [T20] Fashion Management & Design
- [T22] Interior Architecture & Design
- [T35] Product Experience & Design

Through this journey of discovery, you will gain clarity, confidence, and a deeper appreciation of the many ways design shapes the world around us.

#### **Programme Subjects**

Design is a discipline grounded in the act of making. It transforms abstract ideas into tangible outcomes that shape how we live, work, and interact. Design is also a language—one that expresses meaning, intent, and emotion.

The Design Foundation subjects immerse you in the Process, Craft, Context, and Mindset of design. You will develop your creative confidence, expand your perspective, and build critical thinking skills through studio-based learning. Along the way, you will be introduced to Designerly Ways of Seeing, Knowing, Thinking, and Doing —preparing you for the dynamic future of design.

You will develop essential creative competencies and gain early exposure to domain-specific knowledge through the following subjects:

- · Aesthetic & Design Sensibility
- · Design Software Essentials
- · Foundation Studio
- · Ideas & Concepts
- · Narratives in Design

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- · Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

• Beyond the Classroom: Guided Learning

#### Notes

- Students in the Common Design Programme will take selected TPFun subjects during the programme, and complete the remaining subjects after streaming into their respective diploma courses.
- Applicants with partial or complete colour appreciation deficiency should not apply for this course. Applicants who do not satisfy the pre-requisite may not be accepted into the course. Applicants must ensure that they do not suffer from medical conditions such as epilepsy or hearing deficiency for safety reasons.







#### The Course

Communication Design is where creativity meets strategy—where stories take shape, visuals come alive, and ideas are crafted to connect, influence, and inspire. If you are someone who notices great branding, loves experimenting with design, or dreams of creating content that sparks conversations, this diploma will give you the tools, mindset, and platform to explore your creative potential.

You will learn to think like a creative strategist, craft compelling visual narratives, and bring brands to life through art direction, typography, motion design, UX/UI, and more. From posters to pop-ups, campaigns to digital experiences, you will design across media platforms that connect people and ideas. What makes this course distinctive is its versatility. You will move fluidly across creative roles—designer, storyteller, strategist, innovator—while blending design craft with emerging technologies and real-world strategy. You will collaborate with peers, respond to live industry briefs, and experiment with tools such as AR, VR, and interactive media.

Each project will push you to refine your voice, sharpen your style, and think critically about how design shapes the world. By the time you graduate, you will not only have a portfolio—you will have a personal brand and the agility to thrive in advertising, branding, design studios, or other spaces where creativity drives impact.

#### Year 1 Subjects

- · 3D Visualisation
- · Art Direction & Copywriting
- · Design Studio: Craft
- · Information Design
- · Motion Graphics
- Typography

#### <u>Design Foundation Subjects</u> (Semester 1)

- · Aesthetic & Design Sensibility
- Design Software Essentials
- · Foundation Studio
- Ideas & Concepts
- Narratives in Design

#### Year 2 Subjects

- · Advertising & Creative Strategy
- · Brand & Design Strategy
- Brand Activation
- Design Studio: Brand
- Design Studio: Experience
- · Digital Innovation
- UXUI Design

#### **Brand Marketing Elective Cluster\***

- Consumer Psychology & Brand Influence
- · Storytelling for Brand Engagement
- · Strategic Brand Building

#### Creative Technology Elective Cluster\*

- Data & Code as Creative Tools
- Design Realisation Through Technology
- Interactive & Immersive Technologies

#### Creative Ventures Elective Cluster\*

- · Creative Business Essentials
- · Creative Practice for the Marketplace
- Ethics, IP & the Creative Economy

### Digital Content Creation Elective Cluster\*

- · Crafting Stories for Digital Media
- · Digital Content Strategy
- Media Production for Content Creators

### Experience & Innovation Elective Cluster\*

- · Facilitating Innovation Through Design
  - People-Centred & Inclusive Design
- Prototyping for Service Innovation

#### Year 3 Subjects

- · CMD Capstone Studio#
- CMD Professional Practice
- Collaborative Industry Experience\*
- Guided Work-based Learning\*

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core subjects

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

As a graduate of this course, you can look forward to a broad range of further local and overseas study options in design and beyond, including degree pathways in Communication, Digital Media, and other related fields. Many universities also offer credit exemptions, making your transition into degree programmes smoother.

Our students have been successfully enrolled in Singapore's leading universities, including:

- National University of Singapore
- · Nanyang Technological University
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Social Sciences

The School also offers a Specialist Diploma in Design for Integrated Communication to deepen your expertise and meet evolving industry needs.

#### **Career Opportunities**

- · Branding Designer
- Content Strategist
- · Creative Technologist
- Design Facilitator
- Designer (Digital Product, Experience, Graphic, Image, Interactive, Motion Graphic, UX/UI, Web)
- Product Manager
- Social Media Manager

Note: Applicants with mild or severe colour vision deficiency or suffering from severe visual impairment should not apply for this course.

<sup>\*</sup>Students must choose ONE elective cluster

<sup>\*</sup>Students must choose ONE of these three electives







#### The Course

Every great film begins with a strong idea. In this diploma, you will learn how to craft compelling stories—whether as emotional dramas, slice-of-life documentaries, or short-form social media content. You will explore the entire storytelling process in film and video production, and delve into the evolving role of AI in filmmaking and how it is shaping creative workflows and possibilities.

Gain core competencies in screenwriting, directing, cinematography, sound, editing, and production design. Pitch to clients, work in teams, and bring ideas to life across genres and formats. Your films will compete in local and international festivals-from The Pinwheels and Crowbar Awards to the New York Festivals TV & Film Awards. You will join learning journeys to local and overseas studios, attend major events such as the Busan International Film Festival, and collaborate with organisations like SAFRA, the Singapore Kindness Movement, Honour Singapore, and the Singapore Discovery Centre. Your work may even be featured on Singapore Airlines' in-flight entertainment or screened at venues like the Esplanade and Oldham Theatre.

You will be mentored by award-winning filmmakers and trained in professional studios with industry-standard equipment. Our close ties with industry partners offer real-world projects, mentorship, and internships that prepare you for careers in film, television, advertising, and digital media. If you're passionate about storytelling and ready to bring ideas to life, your journey starts here.

#### Year 1 Subjects

- Camera in Motion
- Creative Storytelling
- Introduction to Directing
- Pitching for Social Media
- Production Planning & Management
- Studio Production
- Video Editina

#### Design Foundation Subjects (Semester 1)

- Aesthetic & Design Sensibility
- Design Software Essentials
- Foundation Studio
- Ideas & Concepts
- · Narratives in Design

#### **Year 2 Subjects**

- · Directing
- · Film Project: Documentary
- Film Project: Genre
- · Film Project: Social Media
- Media Futures
- Overview of Non-Fiction
- · Screen Writing

#### **Brand Marketing Elective Cluster\***

- Consumer Psychology & Brand Influence
- Storytelling for Brand Engagement
- Strategic Brand Building

#### Creative Technology Elective Cluster\*

- Data & Code as Creative Tools
- **Design Realisation** Through Technology
- Interactive & Immersive Technologies

#### Creative Ventures Elective Cluster\*

- Creative Practice for the Marketplace Ethics, IP & the Creative Economy
- Creative Business Essentials

#### **Digital Content Creation** Elective Cluster\*

- Crafting Stories for Digital Media
- Digital Content Strategy
- · Media Production for Content Creators

#### **Experience & Innovation** Elective Cluster\*

- Facilitating Innovation Through Design
- People-Centred & Inclusive Design
- Prototyping for Service Innovation
- \*Students must choose ONE elective cluster

#### **Production & Directing Option**

- · Advanced Directing
- Content Marketing
- Writing for Non-Fiction Film & Television

#### **Production & Technical Option**

- · Advanced Editing
- Audio Post
- Cinematography

#### **Year 3 Subjects**

- DFT Capstone Project: Short Film#
- DFT Professional Practice
- · Guided Work-based Learning#
- \* Students must choose ONE of these two electives

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship

- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

Beyond the Classroom: Guided Learning

#### **Further Studies**

Many of our graduates have excelled at top local and overseas universities, studying film, creative media, communication, and other related fields.

Our students have been successfully enrolled in Singapore's leading universities, including:

- National University of Singapore
- Nanyang Technological University
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Social Sciences

Based on the strength of your TP coursework, you may receive advanced standing at many universities, with some overseas institutions offering direct entry into the final year.

#### Career Opportunities

Pursue careers in the film, broadcast and social media industries as a:

- Cinematographer / Camera Operator
- Content Creator
- Director
  - Filmmaker
- Media Producer
- Scriptwriter
- Sound Recordist / Sound Mixer
- Video Editor

Note: Applicants with mild or severe colour vision deficiency or suffering from severe visual impairment should not apply for this course.







#### The Course

Fashion is more than style—it is a powerful language of expression and a driver of change. In this diploma, you will gain both creative and strategic skills to thrive in the evolving fashion industry. You will learn to navigate the full fashion lifecycle—from idea generation, branding, and garment design, to production, marketing, and retail. With a unique blend of design innovation and business thinking, you will develop a holistic understanding of fashion that balances creativity with commercial awareness.

In your second year, you will deepen your expertise by specialising in either Fashion Design or Fashion Management. Whether you are prototyping innovative silhouettes or developing strategies for fashion brands, you will sharpen your aesthetic eye while building strong entrepreneurial instincts. You will also create work that explores themes such as sustainability, inclusivity, and cultural identity—supported by digital tools that bring your vision to life.

As you progress, you will take on real-world projects, collaborate with industry partners, and build your own collection. Whether your aspirations lie in launching a label, curating fashion content, or shaping buying strategies, this course equips you with the creative fluency and business acumen to lead and influence in the world of fashion.

#### Year 1 Subjects

- · Design Studio: Exploration
- Fashion Concepts & Strategies
- · Introduction to Fashion Production
- · Textiles Exploration

#### <u>Design Foundation Subjects</u> (Semester 1)

- · Aesthetic & Design Sensibility
- Design Software Essentials
- · Foundation Studio
- Ideas & Concepts
- · Narratives in Design

#### Year 2 Subjects

- Design Studio: Innovation
- · Design Studio: Specialisation
- Digital Creation in Fashion

#### Brand Marketing Elective Cluster\*

- Consumer Psychology & Brand Influence
- Storytelling for Brand Engagement
- · Strategic Brand Building

#### Creative Technology Elective Cluster\*

- · Data & Code as Creative Tools
- Design Realisation Through Technology
- Interactive & Immersive Technologies

#### Creative Ventures Elective Cluster\*

- · Creative Business Essentials
- · Creative Practice for the Marketplace
- · Ethics, IP & the Creative Economy

#### <u>Digital Content Creation</u> <u>Elective Cluster</u>\*

- · Crafting Stories for Digital Media
- Digital Content Strategy
- Media Production for Content Creators

## Experience & Innovation Elective Cluster\*

- Facilitating Innovation Through Design
- · People-Centred & Inclusive Design
- Prototyping for Service Innovation
- \*Students must choose ONE elective cluster

#### Fashion Design Option

- · Creative Pattern Making
- Drafting Techniques
- Draping Techniques
- Fashion Construction

#### Fashion Management Option

- · Fashion Supply Chain
- · Retail Buying Management
- Retail Design & Experiences
- · Strategies in Fashion Marketing

#### Year 3 Subjects

- FMD Capstone Project: Production#
- FMD Capstone Project: Proposal\*
- · FMD Professional Practice
- · Guided Work-based Learning#
- \*Students must choose TWO of these three electives

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core subjects

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

Our graduates have found success in some of the best fashion schools worldwide, often with advanced standing. This opens up a world of possibilities, allowing you to explore a diverse range of courses, including Fashion Styling, Fashion Design & Technology, Pattern Cutting, Textiles Design, Fashion Merchandising, Marketing, and Fashion Business Management, both locally and overseas.

Our students have been successfully enrolled in Singapore's leading universities, including:

- · National University of Singapore
- Nanyang Technological University
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Social

#### **Career Opportunities**

- Brand Managers
- Buyers for Retailers
- Entrepreneurs

Sciences

- Event Planners
- Fashion Content Creators
- · Fashion Designers
- Fashion Marketing Executives
- Merchandisers for Apparel Manufacturers or Retailers
- Product Developers
- Stylists
- Visual Merchandisers





## INTERIOR **ARCHITECTURE & DESIGN**



Scan for full details, or visit: www.tp.edu.sq/t22

#### The Course

As urban lifestyles evolve and spatial constraints grow, the role of designers has never been more critical. From inter-generational living to hybrid home-office setups, you will learn to design spaces that respond thoughtfully to emerging needs, social trends, and cultural contexts.

This diploma draws on interior and architectural perspectives, training you to think beyond aesthetics. You will learn to reimagine spatial experiences through adaptive, immersive, human-centred design. Whether crafting sensory environments or tackling complex constraints, you'll build a strong conceptual and technical foundation to shape meaningful spaces that evolve with people's lives. You will also explore how sustainability, lifestyle, and social change shape the built environment, and engage with real-world challenges through industry projects, mentorships, and internships. With accreditation from the Board of Architects Singapore, this course prepares you for a smooth transition into university-level architecture studies.

Throughout your journey, you will sharpen your design sensibility through rigorous studio work, study trips, and industry exposure. You will graduate with the ability to design for diverse sectors—from hospitality and retail to property and experience design—ready to shape the spaces of tomorrow with purpose and imagination.

#### **Year 1 Subjects**

- · Architectural Drawing
- Design Studio: Idea-Driven
- Digital Visualisation
- Spatial Elements: Sensory & Ambience
- Sustainable Space Planning

#### **Design Foundation Subjects** (Semester 1)

- Aesthetic & Design Sensibility
- Design Software Essentials
- Foundation Studio
- Ideas & Concepts
- Narratives in Design

#### Year 2 Subjects

- Construction & Detailing: Architecture
- Construction & Detailing: Interior
- Design Studio: Issue-Driven
- Design Studio: Site-Driven
- Digital Integration
- Digital Modelling
- Interior Systems & Services
- Spatial Elements: Light & Materiality

#### **Brand Marketing Elective Cluster\***

- Consumer Psychology & Brand Influence
- Storytelling for Brand Engagement
- Strategic Brand Building

#### Creative Technology Elective Cluster\*

- Data & Code as Creative Tools
- Design Realisation Through Technology
- Interactive & Immersive Technologies

#### Creative Ventures Elective Cluster\*

- Creative Business Essentials
- Creative Practice for the Marketplace
- Ethics, IP & the Creative Economy

#### **Digital Content Creation** Elective Cluster\*

- Crafting Stories for Digital Media
- Digital Content Strategy
- Media Production for Content Creators

#### **Experience & Innovation** Elective Cluster\*

- Facilitating Innovation Through Design
- People-Centred & Inclusive Design
- Prototyping for Service Innovation

#### **Year 3 Subjects**

- Guided Work-based Learning#
- IAD Capstone Project: Production#
- IAD Capstone Project: Proposal#
- IAD Professional Practice

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core subjects**

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

Beyond the Classroom: Guided Learning

#### **Further Studies**

Graduates can further their studies at local or overseas universities. Some of the world's top design schools that have accepted them on the strength of their coursework and many go on to pursue architecture, interior design, or other related fields.

Our students have been successfully enrolled in Singapore's leading universities, including:

- National University of Singapore
- Nanyang Technological University
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Social Sciences

The School also offers Specialist Diplomas in Interior Design Practice, Lighting Design, and Sustainable Built Environment to deepen our graduates' skill sets and meet industry demand.

#### **Career Opportunities**

- Architectural Design Assistant
- Design Visualiser / 3D Modeler
- Designer (Exhibition / Event, Interior Product, Lighting, Set / Stage, Spatial)
- Designer in Adjacent Industries (Property Developer, Real Estate, NFT, etc.)
- Entrepreneur / Freelancer / Independent Consultant
- Interior Design Professional (F&B, Retail, Exhibition, Office, Hospitality, Residential, etc.)

Note: Applicants with mild or severe colour vision deficiency or suffering from severe visual impairment should not apply for this course.



<sup>\*</sup>Students must choose ONE elective cluster

<sup>\*</sup>Students must choose TWO of these three electives







#### The Course

Do you see yourself shaping the future through products that are smart, purposeful, and human-centred? In this diploma, you will learn to design across both physical and digital dimensions—where tangible form meets immersive experience. From consumer electronics to healthcare solutions, from financial services to hospitality and lifestyle products, you will explore how product and experience design intersect across diverse industries.

You will explore how to design products that not only function well, but also carry meaning and impact—blending functionality, purpose, and social consciousness. From user-centred research to hands-on prototyping, you will sharpen your craft, develop your technical skillsets, and refine your critical thinking. You will also learn how to pitch your ideas convincingly, working with real clients on live challenges from both government agencies and industry players.

Through an iterative and research-driven process, you will design outcomes that are aesthetically refined, user-focused, and strategically sound. Along the way, you will have opportunities to explore adjacent areas such as psychology, branding, and digital marketing—helping you build the confidence to innovate across domains. By integrating design, business, and technology, you will be ready to create impactful design solutions that connect people, products, and experiences in meaningful ways.

#### Year 1 Subjects

- · Colour, Material & Finishing
- · Design Research Methodologies
- Design Studio: Form & Function
- · Digital Prototyping
- Human Centred Design
- Rapid Prototyping

#### <u>Design Foundation Subjects</u> (Semester 1)

- · Aesthetic & Design Sensibility
- Design Software Essentials
- Foundation Studio
- Ideas & Concepts
- Narratives in Design

#### Year 2 Subjects

- Design Studio: Connected Experiences
- · Design Studio: Service Integration
- · Product Innovation
- · Product Interface Design
- · Product Storytelling
- · Service Design Principles
- User Experience Design

#### Brand Marketing Elective Cluster\*

- Consumer Psychology
   & Brand Influence
- Storytelling for Brand Engagement
- · Strategic Brand Building

#### Creative Technology Elective Cluster\*

- Data & Code as Creative Tools
- Design Realisation Through Technology
- Interactive & Immersive Technologies

#### Creative Ventures Elective Cluster\*

- · Creative Business Essentials
- · Creative Practice for the Marketplace
- · Ethics, IP & the Creative Economy

#### <u>Digital Content Creation</u> Elective Cluster\*

- · Crafting Stories for Digital Media
- · Digital Content Strategy
- Media Production for Content Creators

## Experience & Innovation Elective Cluster\*

- · Facilitating Innovation Through Design
- · People-Centred & Inclusive Design
- · Prototyping for Service Innovation

#### **Year 3 Subjects**

- Guided Work-based Learning\*
- PED Capstone Project: Production\*
- PED Capstone Project: Proposal\*
- PED Professional Practice

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

Our graduates have been accepted into many of the world's best design schools and universities with advanced standing.

Our students have been successfully enrolled in Singapore's leading universities, including:

- National University of Singapore
- Nanyang Technological University
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Social Sciences

Many pursue careers in product, service, transport, furniture, and experience design. Beyond the design sector, our graduates are sought after as innovation leaders in banking, healthcare, and finance, with some even starting their own successful studios and enterprises.

#### **Career Opportunities**

- 3D Modelling Specialist
- 3D Visualiser
- · Conceptual Artist / Designer
- Creative Technologist
- Design / Ethnographic Researcher
- Design Entrepreneur
- · Digital Product Designer
- Furniture / Exhibition / Packaging / Props & Set Designer
- · Interaction Designer
- Product / Industrial Designer
- · Service Designer
  - User Experience (UX) Designer
- · User Interface (UI) Designer

Note: Applicants with mild or severe colour vision deficiency, or suffering from uncontrolled epilepsy, profound hearing loss or severe visual impairment should not apply for this course.

<sup>\*</sup>Students must choose ONE elective cluster

<sup>\*</sup>Students must choose TWO of these three electives



## SCHOOL OF ENGINEERING

Engineers revolutionise cities and communities, improve how we live, work and play, transform the future of healthcare with innovative biomedical inventions and develop disruptive digital technologies that make it all possible!

As today's Industry 4.0 revolution gathers pace, new emerging technologies such as artificial intelligence, automation, and the Internet of Things are being used in more and more applications, enhancing progress and sustainability. The School of Engineering (ENG) will not only prepare you for today's technological landscape, but also position you to be at the forefront of the next revolution—Industry 5.0!

Push the boundaries of modern engineering with our offering of 10 exciting diploma courses and a Common Entry Programme. You'll receive broad-based training in core engineering areas before specialising in exciting fields such as advanced manufacturing, aerospace, aviation, sustainable energy, integrated facility management or biomedical engineering.

You'll also have the opportunity to fast-track your degree ambitions with our University Pathway Programmes. In your final year, you can take actual university modules to secure conditional admission into selected courses at the National University of Singapore (NUS), Singapore Management University (SMU), or the Singapore University of Technology and Design (SUTD), and complete your degree sooner!

With quality lecturers, a robust technology innovation culture, prominent industry partners and a multidisciplinary curriculum, and many tie-ups with local and foreign universities, an engineering diploma from the School ensures that you'll be equipped with the versatility and edge you need to thrive in today's digital-first economy.

Get ready to engineer your bright future here—one dedicated to improving the world we live in!

#### Common entry programme

• [T56] Common Engineering Programme

#### Full-time diploma courses

- [T50] Aerospace Electronics
- [T51] Aerospace Engineering
- · [T29] Architectural Technology & Building Services
- · [T04] Aviation Management
- [T38] Biomedical Engineering
- · [T43] Business Process & Systems Engineering
- [T13] Computer Engineering
- [T65] Electronics
- [T28] Integrated Facility Management
- [T66] Mechatronics

#### General and admissions enquiries

Tel : 6788 2000

Email: admissions@tp.edu.sg

#### Course enquiries

Tel : 6780 5144

Email : enghotline@tp.edu.sg Website : www.tp.edu.sg/eng

#### For the latest tuition fees, visit:

www.tp.edu.sg/coursefees

## MINIMUM ENTRY REQUIREMENTS

To be eligible for any School of Engineering diploma course:

English Language Grade 1 – 7

Additional Mathematics / Mathematics Grade 1 – 6

Any one of the following subjects
Grade 1 – 6

Biology, Biotechnology, Chemistry, Computing / Computer Studies, Design & Technology, Electronics / Fundamentals of Electronics, Physics, Science (Chemistry, Biology), Science (Physics, Biology), Science (Physics, Chemistry)

For details on ELR2B2-C computation, visit: www.tp.edu.sq/elr2b2

#### **FURTHER STUDIES**

You can gain admission into a wide range of degree programmes at local and overseas universities in USA, UK, Australia and New Zealand. Advanced standing for specific modules, or up to two years exemption, may be given depending on the relevance of the degree programme.







#### The Course

This programme is a common entry point to seven different engineering diploma courses. If you're keen to pursue an engineering career but are still determining which of the many engineering disciplines would suit you best, then this is the programme for you. With seven diploma courses, this programme offers you ultimate flexibility.

Under this programme, you'll take the same foundation subjects as students who have enrolled directly in their respective diploma courses. The programme provides you with the time and opportunity to explore your strengths and interests further. With this experience, you'll then be ready to pick one of the following diploma courses at the end of your first or second semester:

- [T50] Aerospace Electronics
- [T51] Aerospace Engineering
- · [T38] Biomedical Engineering
- · [T43] Business Process & Systems Engineering
- [T13] Computer Engineering
- · [T65] Electronics
- [T66] Mechatronics

Upon successfully completing this programme, you'll graduate with the same diploma as students who have joined a particular diploma course right from the start.

#### **Foundation Subjects**

- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1 & 2
- Electronic Devices & Circuits
- Electronic Prototyping
- Engineering Mathematics 1 & 2
- Engineering MathemaEngineering Physics

#### Years 2 and 3 Subjects:

The core subjects that you take in your second and third year of studies will depend on which of the seven diploma courses you stream into.

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- · Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Career Opportunities**

This programme allows you to defer your decision on which course to take, so you can have more time to observe a particular industry's performance and the economic situation, before deciding on the course to pursue.

Depending on your specialisation, you'll be able to find jobs in any of the following engineering sectors: aerospace, advanced manufacturing and automation, biomedical sciences, computer and IT, sustainable energy, and smart buildings, as well as those outside the engineering sphere.

#### Notes

- Students in the Common Engineering Programme will take selected TPFun subjects during the programme, and complete the remaining subjects after streaming into their respective diploma courses.
- Any special health requirements for a specific diploma course will also apply if you choose to branch into that course.







#### The Course

This course equips you with fundamental and applied knowledge of aircraft electrical, communication, navigation and flight control systems. You'll undergo a rigorous aerospace training programme, including practical modules offered together with our partner and world-renowned aircraft maintenance training provider, Lufthansa Technical Training (LTT) of Germany.

As TP is the first polytechnic certified by the Civil Aviation Authority of Singapore (CAAS) as a SAR-147 Approved Maintenance Training Organisation (AMTO), your diploma will be more widely recognised by employers. Your Aircraft Maintenance Licence (AML) apprenticeship duration after graduating from TP will also be significantly shortened by up to 10 months.

If you aspire to be a pilot, you can also fulfil your dream by taking flying lessons as part of your Student Internship Programme in your final semester of study, to get that coveted Private Pilot Licence (PPL).

#### **Year 1 Subjects**

- · Artificial Intelligence in Engineering
- · Avionic Systems
- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1 & 2
- Electronic Devices & Circuits
- Engineering Mathematics 1 & 2
- Engineering Physics

#### Year 2 Subjects

- · Aerospace Maintenance Practices
- Aircraft Electrical Fundamentals
- Aircraft Electronics & Servomechanisms
- · Data Visualisation & Analytics
- · Engineering Mathematics 3
- Fundamentals of Aeronautical Science

#### **Year 3 Subjects**

- Aircraft Digital Systems
- · Aviation Legislation & Human Factors
- Basic Aerodynamics

#### IoT & Automation Elective Cluster #

- Intelligent Automation
- Internet of Things Project

#### Aerospace Operations Elective Cluster #

- Lean Processes
- · Unmanned Aircraft Operations

#### Industry Practice Elective Cluster #^

- · Guided Work-based Learning
- Major Project

## <u>University Pathway Programme</u> (NUS/EE) #^

- Electrical Engineering Principles
   & Practice
- · Fundamentals of Physics
- Introductory Mathematics
- Major Project
- Programming Methodology

#### <u>University Pathway Programme</u> (SMU/IS) \*^

- · Algorithms & Programming
- · Business Process Analytics & Solutioning

#### <u>University Pathway Programme</u> (SMU/CS) \*^

- · Collaborative Software Development
- · Mathematical Foundations of Computing

#### <u>University Pathway Programme</u> (SMU/SW) \*^

- · Algorithms & Programming
- · Operating Systems & Networking
- \* Students are to choose one of these elective clusters
  ^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Career Opportunities**

Singapore is Asia's most comprehensive aerospace maintenance, repair and overhaul (MRO) hub. You can seize opportunities in the fast-expanding aerospace industry, which by 2024 had an output worth S\$15.4 billion and hired about 21,000 workers spread across more than 130 local and international companies in Singapore. (*The Straits Times*, 19 Feb 2024.)

The aerospace industry is poised to continue its exponential growth as demand for air travel continues to pick up speed.

This spells exciting job opportunities for you, some of which are:

- Avionics Test Engineers
- Licensed Aircraft Engineers (LAE)
- · Process / Quality Engineers
- Technical Service Engineers

Note: Applicants should not be suffering from mild or severe colour vision deficiency, uncontrolled epilepsy, profound hearing loss, severe vision impairment or any physical impairment, or be physically dependent on mobility equipment.







#### The Course

This course equips you with a strong foundation specialising in aerodynamics, aircraft engines, structures, and systems. You'll undergo a rigorous aerospace training programme, including practical modules offered together with our partner and world-renowned aircraft maintenance training provider, Lufthansa Technical Training (LTT) of Germany.

As TP is the only polytechnic certified by the Civil Aviation Authority of Singapore (CAAS) as a SAR-147 Approved Maintenance Training Organisation (AMTO), prospective employers will widely recognise your diploma. Your Aircraft Maintenance Licence (AML) apprenticeship duration after graduating from TP will also be significantly shortened by up to 10 months.

If you aspire to be a pilot, you can also fulfil your dream by taking flying lessons as part of your Student Internship Programme in your final semester of study to get that coveted Private Pilot Licence (PPL).

#### Year 1 Subjects

- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1
- Electronic Devices & Circuits
- **Engineering Drawing**
- Engineering Mathematics 1 & 2
- **Engineering Physics**
- Statics & Strength of Materials
- Thermodynamics

#### Year 2 Subjects

- Aircraft Electrical Fundamentals
- Aircraft Electronics & Digital Systems Artificial Intelligence in Engineering
- Aviation Legislation & Human Factors
- Basic Aerodynamics
- Data Visualisation & Analytics
- **Engineering Materials**
- **Engineering Mathematics 3**
- Fluid Mechanics
- Gas Turbine Engine
- Principles of Dynamics

#### **Year 3 Subjects**

#### Aerospace System Design (ASD) Elective Cluster #

- Aircraft Structures & Composites
- Engine Maintenance & Workshop Practices
- Major Project

#### Lufthansa Technical Training (LTT) Elective Cluster #

Aerospace Maintenance Practices

#### Industry Practice Elective Cluster # ^

- Guided Work-based Learning
- Major Project

#### University Pathway Programme (NUS/ME) #

- **Engineering Principles & Practice**
- Fundamentals of Physics
- Introductory Mathematics
- Major Project
- Programming Methodology

#### University Pathway Programme (SMU/IS) #

- Algorithms & Programming
- · Business Process Analytics & Solutioning

#### University Pathway Programme (SMU/CS) # /

- Collaborative Software Development
- Mathematical Foundations of Computing

#### University Pathway Programme (SMU/SW) # /

- Algorithms & Programming
- Operating Systems & Networking
- \* Students are to choose one of these elective clusters
- ^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

Beyond the Classroom: Guided Learning

#### **Career Opportunities**

Singapore is Asia's most comprehensive aerospace maintenance, repair and overhaul (MRO) hub. You can seize opportunities in the fast-expanding aerospace industry, which by 2024 had an output worth S\$15.4 billion and hired about 21,000 workers spread across more than 130 local and international companies in Singapore. (The Straits Times, 19 Feb 2024.)

The aerospace industry is poised to continue its exponential growth as demand for air travel continues to pick up speed.

This spells exciting job opportunities for you, some of which are:

- Aero-mechanical Systems Specialists
- Aerospace Component Design Engineers
- Engine or Power-plant Technologists
- Licensed Aircraft Engineers (LAE)

Note: Applicants should not be suffering from mild or severe colour vision deficiency, uncontrolled epilepsy, profound hearing loss, severe vision impairment or any physical impairment, or be physically dependent on mobility equipment.





# ARCHITECTURAL TECHNOLOGY & BUILDING SERVICES



Scan for full details, or visit: www.tp.edu.sg/t29

#### The Course

You would have heard about climate change, but did you know that a building's design can play a part in combating it?

This pioneering multidisciplinary polytechnic course is dedicated to harnessing technology and digitalisation to shape the smart, sustainable buildings of tomorrow. You'll gain hands-on experience with innovative digital tools and integrated design strategies that minimise energy consumption and reduce carbon footprints.

Learn to evaluate the economic benefits of enhancing energy performance and master the selection of sustainable materials essential for green buildings. You will be empowered to lead the creation of a greener and more resilient built environment!

During your course, you can also attain the Fire Safety Manager certification from the Singapore Civil Defence Force, and the Digital Delivery Management Certification – Tier 4 (Provisional) from Building Smart Singapore.

#### **Year 1 Subjects**

- · Artificial Intelligence in Engineering
- · Climate Responsive Design Simulation
- Computer Programming for Problem Solving
- Digital Modelling for Architecture
- · Engineering Mathematics 1 & 2
- · Engineering Physics
- · Generative Design for Architecture
- Principles of Sustainable Design

#### Year 2 Subjects

- Air-Conditioning & Mechanical Ventilation
- · Building Management System
- · Building Performance Modelling
- Building Systems Modelling
- · Data Visualisation & Analytics
- Electrical System Design for Buildings
- · Energy Management & Audit
- · Fire & Life Safety Management
- Integrated Design Studio

#### Year 3 Subjects

Major Project

## Advanced Engineering Skills Elective Cluster #

Advanced Skills Practices

## Environmental Sustainability Elective Cluster #

- Life Cycle Analysis
- · Project Management

#### Industry Practice Elective Cluster # ^

Guided Work-based Learning

## University Pathway Programme (NUS/IPM) #^

- Built Environment Engineering Principles & Practice
- · Construction Technology
- Infrastructure & Project Management Law
- · Introduction to Building Performance
- · Structural Systems

#### <u>University Pathway Programme</u> (NUS/ME) # ^

- · Engineering Principles & Practice
- · Fundamentals of Physics
- Introductory Mathematics
- · Programming Methodology

#### University Pathway Programme (SUTD) #^

- Computational Thinking for Design
- Modelling & Analysis
- · Physical World
- Social Science: Understanding Behaviour, Culture & Society

#### <u>University Pathway Programme</u> (SMU/IS) \*^

- · Algorithms & Programming
- Business Process Analytics & Solutioning

#### <u>University Pathway Programme</u> (SMU/CS) \*\*

- Collaborative Software Development
- Mathematical Foundations of Computing

#### <u>University Pathway Programme</u> (SMU/SW) \* ^

- · Algorithms & Programming
- · Operating Systems & Networking
- # Students are to choose one of these elective clusters
- For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Career Opportunities**

In alignment with the Singapore Green Plan 2030, which aims to ensure that 80% of the built environment is "green" over the next decade, there is a growing emphasis on developing eco-friendly districts and super-low energy buildings on a significant scale. Hence, you can anticipate promising career opportunities in green-collared roles, particularly within the field of architectural technology and building systems design.

There are exciting jobs in companies at the forefront of sustainable design and development, such as:

- Architectural Technologists
- · Building Automation Technologists
- Digital Delivery Management Specialists
- **Energy Management Executives**
- Environmental Sustainability Design (ESD) Engineers / Architects
- · Green Building Designers

Note: Applicants should not be suffering from uncontrolled epilepsy, profound hearing loss or severe vision impairment.







#### The Course

This course is the first Aviation Management programme of its kind in Asia. You'll learn and combine a broad range of specialised aviation management skills with business knowledge. From learning how to manage a world-class airport to acquiring the skill sets to operate the best airlines in the world, you'll be fully equipped to take off on an exciting career in the aviation industry!

No aviation programme is complete without experiencing flight! In this course, you may take to the skies as a cabin crew member with a Singapore-based airline as part of your internship. Or, you could take the first step towards becoming a pilot via our Aeronautical Science Option, where you'll undergo the required flying and theoretical lessons to obtain a Private Pilot Licence (PPL). Selected foundational subjects in this option will also give you an advantage if you pursue the Commercial Pilot Licence (CPL) or Air Transport Pilot Licence (APTL) in the future. These special arrangements, not offered in any similar course by other local polytechnics, will give you a head start in the aviation industry.

#### Year 1 Subjects

- Airline Operations
- · Artificial Intelligence in Engineering
- · Business Fundamentals
- Computer Programming for Problem Solving
- Engineering Mathematics 1 & 2
- Introduction to Civil Aviation
- · Principles of Aeronautical Science
- Quantitative Methods

#### Year 2 Subjects

- Airfield Systems
- · Airline Management
- · Airport Operations & Management
- · Airport Systems
- · Aviation Safety & Security
- · Business Continuity Management
- Data Visualisation & Analytics
- Project Management
- · Service Quality & Management

#### **Year 3 Subjects**

Major Project

#### Aeronautical Science Option #

- · Air Navigation
- Flight Planning
- Meteorological Studies

#### Airport & Airline Option #

- · Air Traffic Management
- · Airport Administration
- Management of Air Cargo

#### <u>University Pathway Programme</u> (SMU/IS) \*^

- Algorithms & Programming
- Business Process Analytics & Solutioning

#### <u>University Pathway Programme</u> (SMU/CS) \*^

- Collaborative Software Development
- Mathematical Foundations of Computing

## <u>University Pathway Programme</u> (SMU/SW).#^

- · Algorithms & Programming
- · Operating Systems & Networking

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness
   & Communication
- · Current Issues & Critical Thinking
  - · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- · Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Career Opportunities**

You can be part of the global aviation business, which supports more than 87 million jobs worldwide and is predicted to need another 2.4 million aviation professionals over the next 20 years (Boeing report, 22 Jul 2025).

With the world's best airport and airline at your doorstep and many top airlines and aerospace firms operating in Singapore, this is the place to be for aviation training! Boosted by strong government support, as well as increasing demand for air travel, our aviation sector will continue to require highly skilled professionals to operate and manage existing and upcoming aviation services and facilities. Your strong management skills will also give you an advantage in various business and hospitality-related domains.

These are some of the exciting jobs that could be yours!

- Air Traffic Controllers
- · Airline Flight Controllers
- Airport Operations Centre Managers
- Airside Duty Managers
- · Airside Officers
- Duty Terminal Managers
- Ground Services Officers

Note: Applicants should not be suffering from uncontrolled epilepsy, profound hearing loss or severe vision impairment.

<sup>\*</sup>Students are to choose one of these options







#### The Course

This interdisciplinary course, which blends biology, chemistry and engineering, provides you with integrated training in biological techniques and biomedical instrumentation, including BioMEMS (Biomedical Micro-Electro-Mechanical Systems), microfluidics, flexible hybrid electronics for healthcare wearables, and smart healthcare devices using artificial intelligence. In your final year, you can choose from a wide selection of elective clusters covering various domain areas to give you a more in-depth specialisation in specific biomedical fields. Selected students can also embark on a one-year internship (compared to 4 months for most other diplomas) to gain more industry experience.

#### Year 1 Subjects

- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1 & 2
- **Electronic Devices & Circuits**
- Electronic Prototyping
- Engineering Mathematics 1 & 2
- **Engineering Physics**

#### Year 2 Subjects

- Artificial Intelligence in Engineering
- Chemistry
- Data Visualisation & Analytics
- **Engineering Mathematics 3**
- Human Anatomy & Physiology
- **Medical Devices**
- Medical Device Manufacturing Practices
- Medical Electronics
- Medical Imaging & Informatics
- Microcontroller Applications

#### Year 3 Subjects

Major Project

#### Advanced Engineering Skills Elective Cluster #

Advanced Skills Practices

#### Biomedical Design & Devices Elective Cluster #

- Audiometry & Hearing Devices
- CAD & Additive Manufacturing

#### Cardiology Technology Elective Cluster #

Clinical Cardiology

#### Clinical Equipment & Process Elective Cluster #

- Clinical Laboratory Equipment
- Medical Biochemistry

#### Clinical Laboratory Practice Elective Cluster #

Medical Laboratory Technology

#### Healthcare Informatics Elective Cluster #

- Healthcare Analytics
- Patient Monitoring Technology

#### Sustainability in Engineering Elective Cluster # (Choose any 2 subjects in this cluster)

- Green Urban Transportation
- & Energy Storage
- Life Cycle Analysis
- Renewable Energy Technologies
- Solar Photovoltaic Technology & Leasing

#### Industry Practice Elective Cluster # ^

Guided Work-based Learning

#### University Pathway Programme (NUS/BME) #

- Biomedical Engineering Principles & Practice 1
- Biomedical Engineering Principles & Practice 2
- Fundamentals of Physics
- Fundamentals of Project Management

#### University Pathway Programme (NUS/EE) #

- **Electrical Engineering Principles** & Practice
- Fundamentals of Physics
- Introductory Mathematics
- Programming Methodology

#### University Pathway Programme (SUTD) # ^

- Computational Thinking for Design
- Modelling & Analysis
- Physical World
- Social Science: Understanding Behaviour, Culture & Society

#### University Pathway Programme (SMU/IS) # ^

- Algorithms & Programming
- **Business Process Analytics** & Solutioning

#### University Pathway Programme (SMU/CS) #

- Collaborative Software Development
- Mathematical Foundations of Computing

#### University Pathway Programme (SMU/SW) # ^

- Algorithms & Programming
- Operating Systems & Networking

#### Wafer Fabrication Process & Equipment Technologies #

- Wafer Fabrication Technology
- Cleanroom & Vacuum Technology
- \*Students are to choose one of these elective clusters

#### ^For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

Beyond the Classroom: Guided Learning

#### **Career Opportunities**

An ageing population, global health pandemics, chronic diseases, greater health awareness and the growing affluence of the population have collectively led to a surge in demand for high-quality MedTech products and biomedical services. Additionally, Singapore has established itself as a strategic hub for innovative healthcare solutions and medical technology (MedTech) manufacturing, producing about S\$19.4 billion worth of high-value manufacturing products. More than 400 MedTech companies, including worldrenowned brands, operate in Singapore. hiring about 16,900 MedTech professionals (EDB Report, 3 Jun 2025).

You will have exciting and lucrative career prospects as:

- Application / Service Engineers
- **Biomedical Technical Officers**
- Biomedical Design Engineers
- **Imaging Specialists**
- Medical Product Specialists
- Medical Technologists
  - Medical Sales & Marketing Executives
- Regulatory Affairs Executives

Note: Applicants should not be suffering from severe colour vision deficiency, uncontrolled epilepsy, profound hearing loss or severe vision impairment.







## **BUSINESS PROCESS** & SYSTEMS **ENGINEERING**



Scan for full details, or visit: www.tp.edu.sq/t43

#### The Course

As Singapore strives to be a world-class manufacturing centre and logistics hub, there will be a demand for tech-savvy professionals with multidisciplinary knowledge and skills who can offer solutions to business issues and problems and add value to their organisations.

In this course, you'll receive training in business principles and operation concepts, as well as engineering fundamentals and data analytics for the digital economy. Two main areas of focus are Business Analytics, which involves the systematic investigation, prediction and prescription of business performance to provide insights for future planning; and Systems Engineering, which deals with the management, improvement and optimisation of business processes to enhance business productivity and profits.

#### Year 1 Subjects

- Artificial Intelligence in Engineering
- **Business Fundamentals**
- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1
- Engineering Mathematics 1
- Introduction to Processes & Systems
- Quantitative Methods

#### **Year 2 Subjects**

- Customer Relationship Management
- Data Management for Process Analytics
- Data Visualisation & Analytics
- **Decision Analysis**
- Manufacturing Logistics & Simulation
- **Process Management Systems**
- Process Optimisation & Improvement
- **Project Management**
- Sustainable Supply Chain Management
- Systems Modelling & Simulation

#### **Year 3 Subjects**

Major Project

#### Process Analytics & Automation Elective Cluster #

- Intelligent Automation
- IoT Security

#### Supply Chain Management Elective Cluster #

- Distribution Centre Management
- Procurement Materials & Management

#### Industry Practice Elective Cluster # ^

Guided Work-based Learning

#### University Pathway Programme (NUS/EE)\_#

- **Electrical Engineering Principles** & Practice
- Fundamentals of Physics
- Introductory Mathematics
- Programming Methodology

#### University Pathway Programme (NUS/ME) #7

- **Engineering Principles & Practice**
- Fundamentals of Physics
- Introductory Mathematics
- Programming Methodology

#### University Pathway Programme (SUTD) # ^

- Computational Thinking for Design
- Modelling & Analysis
- Physical World
- Social Science: Understanding Behaviour, Culture & Society

#### University Pathway Programme (SMU/CS) # /

- Collaborative Software Development
- Mathematical Foundations of Computing

#### University Pathway Programme (SMU/SW) #

- Algorithms & Programming
- Operating Systems & Networking
- \*Students are to choose one of these elective clusters
- ^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- Career Readiness & Communication
  - Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

Beyond the Classroom: Guided Learning

#### **Career Opportunities**

Armed with the knowledge of fundamental business principles, data analytics, business process improvement and systems engineering, you will be able to identify gaps in business or logistics operations through effective data analysis, automate processes to remove repetitive manual work, and use predictive analytics to effectively deploy operations. You will be empowered to navigate in any company, regardless of its size or stage of digitalisation, in sectors such as manufacturing, logistics, healthcare, finance, retail, customer service, as well as sales and marketing.

Your highly transferable skill sets will allow you to secure exciting jobs such as:

- **Business Analysts**
- Customer Relationship Executives
- Logistics & Supply Chain Executives
- Market Researchers
- Productivity & Management Systems Executives
- Quality Assurance & Control Specialists

With this diploma, you will also be wellequipped to pursue further studies in business, finance, accountancy, the arts and social sciences, law, and engineering.

Note: Applicants should not be suffering from severe colour vision deficiency or severe vision impairment.







#### The Course

With more and more companies embarking on digitalising their processes and businesses and placing high importance on applying the latest digital solutions, there is a growing demand for talent in the field of computer engineering. This course covers the traditional computer engineering areas and the emerging fields of the Internet of Things (IoT), data analytics, artificial intelligence, cyber security and smart manufacturing, empowering you to drive Singapore's economic transformation.

The course will prepare you to take internationally recognised industry certification examinations such as those from National Instruments, UI Path, Microsoft and Unity3D. Selected students can also embark on a year-long internship with ST Engineering and National Computer Systems (NCS) to gain robust industry experience.

#### Year 1 Subjects

- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1 & 2
- · Electronic Devices & Circuits
- · Electronic Prototyping
- · Engineering Mathematics 1 & 2
- · Engineering Physics

#### Year 2 Subjects

- · Artificial Intelligence in Engineering
- · Artificial Intelligence & Machine Learning
- Data Visualisation & Analytics
- Engineering Mathematics 3
- · Full Stack Development
- · Intelligent Automation
- Internet of Things Project
- Microcontroller Applications
- · Object-oriented Programming

#### Advanced Engineering Skills Elective Cluster #

Advanced Skills Practices

#### Industrial Internet of Things Elective Cluster #

· System & Network Integration

#### Intralogistics & Cybersecurity Elective Cluster #

IoT Security

#### Virtual Reality Elective Cluster #

3D Modelling for Virtual Reality

## Sustainability in Engineering Elective Cluster # (Choose 1 subject under this cluster)

- · Life Cycle Analysis
- Renewable Energy Technologies

## Wafer Fabrication Process & Equipment Elective Cluster #

Wafer Fabrication Technology

#### Year 3 Subjects

Major Project

#### Industrial Internet of Things Elective Cluster

Mobile Device Applications Development

#### Intralogistics & Cybersecurity Elective Cluster

· Distribution Centre Management

#### Virtual Reality Elective Cluster #

Interactive Programming for Virtual Reality

## <u>Sustainability in Engineering Elective Cluster</u> \* (Choose 1 subject under this cluster)

- Green Urban Transportation & Energy Storage
- · Solar Photovoltaic Technology & Leasing

#### Industry Practice Elective Cluster #^

· Guided Work-based Learning

#### University Pathway Programme (NUS/EE) #^

- · Electrical Engineering Principles & Practice
- Fundamentals of Physics
- · Introductory Mathematics
- · Programming Methodology

#### University Pathway Programme (NUS/ME) # ^

- · Engineering Principles & Practice
- · Fundamentals of Physics
- · Introductory Mathematics
- · Programming Methodology

#### University Pathway Programme (SUTD) #^

- · Computational Thinking for Design
- · Modelling & Analysis
- Physical World
- Social Science: Understanding Behaviour, Culture & Society

#### University Pathway Programme (SMU/IS) # ^

- · Algorithms & Programming
- Business Process Analytics & Solutioning

### University Pathway Programme (SMU/CS) #

- Collaborative Software Development
- Mathematical Foundations of Computing

- University Pathway Programme (SMU/SW) \* ^
   Algorithms & Programming
- Operating Systems & Networking

### Wafer Fabrication Process & Equipment

- Elective Cluster #
- Cleanroom & Vacuum Technology
- # Students must choose the same elective cluster in both Year 2 and Year 3
  - For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### Career Opportunities

With your expertise and mastery in both hardware and software, you'll have a competitive edge over professionals who specialise in only one of these areas.

You can look forward to many exciting job opportunities and excellent career prospects as:

- Data Analysts
- Embedded Systems Engineers
- · Hardware Engineers
- Integration Engineers
- Network / Servers / Database /
  Computer Systems Administrators
- Software / Web / Mobile Application Developers or Programmers
- Systems Analysts

Note: Applicants should not be suffering from severe colour vision deficiency, uncontrolled epilepsy, profound hearing loss or severe vision impairment.







#### The Course

From smartphones to electric cars, we live in a hyper-connected world driven by cutting-edge technologies, where electronic circuits and devices are found in almost every application or appliance. This course will equip you with future-ready skill sets in emerging technologies such as advanced manufacturing, artificial intelligence and the Internet of Things, as well as their applications in various fields like healthcare, assistive technology, and green innovations for the environment.

In your final year, you can choose one of these elective clusters for further specialisation: Aerospace Electronics (Avionics), Advanced Engineering Skills, Industrial Artificial Intelligence, Intralogistics & Cybersecurity, Robotics, Semiconductors (Wafer Fabrication Process & Equipment), Sustainability in Engineering, or Industry Practice. Selected students can also embark on a one-year internship (compared to 4 months for most other diplomas) to gain more industry experience.

#### Year 1 Subjects

- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1 & 2
- · Electronic Devices & Circuits
- · Electronic Prototyping
- Engineering Mathematics 1 & 2
- Engineering Physics

#### Year 2 Subjects

- Advanced Electronics
   & Communications
- · Artificial Intelligence in Engineering
- Circuit & Control Systems
- Data Visualisation & Analytics
- Digital Sensors & Integrated Circuit Applications
- Engineering Mathematics 3
- Integrated Project
- Microcontroller Applications
- Power Electronics & Drives
- Printed Circuit Board Design

#### Year 3 Subjects

Major Project

#### Advanced Engineering Skills Elective Cluster #

Advanced Skills Practices

#### Avionics Elective Cluster #

- · Aircraft Digital Systems
- Avionic Systems

#### <u>Industrial Artificial Intelligence</u> <u>Elective Cluster</u>

- Edge Computing & Machine Learning
- · Industrial IoT Analytics

## Intralogistics & Cybersecurity Elective Cluster #

- · Distribution Centre Management
- IoT Security

#### Robotics Elective Cluster #

- Robotics & Automation
- · Smart Manufacturing System

## Sustainability in Engineering Elective Cluster #

#### (Choose any 2 subjects under this cluster)

- Green Urban Transportation & Energy Storage
- Life Cycle Analysis
- · Renewable Energy Technologies
- Solar Photovoltaic Technology & Leasing

#### Industry Practice Elective Cluster #^

· Guided Work-based Learning

#### <u>University Pathway Programme</u> (NUS/EE) \*^

- Electrical Engineering Principles
   & Practice
- · Fundamentals of Physics
- · Introductory Mathematics
- Programming Methodology

## University Pathway Programme (NUS/ME) #^

- · Engineering Principles & Practice
- Fundamentals of Physics
- · Introductory Mathematics
- Programming Methodology

#### University Pathway Programme (SUTD) #^

- · Computational Thinking for Design
- Modelling & Analysis
- · Physical World
- Social Science: Understanding Behaviour, Culture & Society

## <u>University Pathway Programme</u> (SMU/IS) \*^

- · Algorithms & Programming
- Business Process Analytics & Solutioning

#### <u>University Pathway Programme</u> (SMU/CS) \*^

- · Collaborative Software Development
- · Mathematical Foundations of Computing

#### <u>University Pathway Programme</u> (SMU/SW) \*^

- Algorithms & Programming
- Operating Systems & Networking

## Wafer Fabrication Process & Equipment Elective Cluster #

- Cleanroom & Vacuum Technology
- Wafer Fabrication Technology
- \* Students are to choose one of these elective clusters

#### ^ For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

· Beyond the Classroom: Guided Learning

#### **Career Opportunities**

Singapore is home to many of the world's leading electronics and semiconductor manufacturers. With this diploma, you'll have dynamic and exciting career prospects in the many diverse sectors that use consumer and industrial electronics today.

Potential jobs for you include:

- Electronics / IoT /
- System Integration Engineers
- Automation / Maintenance / Equipment Engineers
- Production Process Engineers
- · Sales / Marketing Engineers
- · Software / Firmware / Embedded Engineers
- · Sustainability Executives / Specialists

Note: Applicants should not be suffering from severe colour vision deficiency, uncontrolled epilepsy, profound hearing loss or severe vision impairment.







#### The Course

Buildings and facilities developed today must be beautiful, functional, as well as highly sustainable, energy-efficient, and integrated with smart technologies. You can play a part in achieving it!

This course will equip you with the necessary multidisciplinary skill sets to manage modern facilities' amenities, aesthetics and functionality in today's landscape. You will acquire skills in emerging technologies needed to manage major physical establishments' amenities, aesthetics, and functionality—gaining exposure to Sustainability areas like Green Buildings, Life Cycle Analysis, Data Analytics and Data Visualisation, and smart technologies such as the Internet of Things (IoT), Robotics & Automation and Asset Management.

You can also choose to take Hospitality Facilities, Aviation Facilities or Smart Facilities as a cluster elective to gain more specialised career opportunities!

#### **Year 1 Subjects**

- · Air-conditioning & Mechanical Ventilation
- Building Information Modelling Collaboration
- · Electrical System Design For Buildings
- Engineering Mathematics 1 & 2
- · Facilities Operations & Maintenance
- Security & Surveillance
- Virtual Design & Facility Planning
- Workplace Safety & Health for Facility Management

#### Year 2 Subjects

- Artificial Intelligence in Engineering
- Computer Programming for Problem Solving
- · Contract Management
- · Energy Management & Audit
- · Fire & Life Safety Management
- Project Management
- · Sustainable Facility Management

#### **Aviation Facilities Elective Cluster**

- Airport Administration #
- Airport Operations & Management #
- Airport Systems #

#### Hospitality Facilities Elective Cluster

- Customer Experience Innovation \*
- Event Design & Innovation #
- Introduction to Hospitality & Tourism #

#### **Smart Facilities Elective Cluster**

- Building Management System #
- Intelligent Automation #
- Smart FM & Asset Enhancement #

\* Students are to choose three of these cluster elective subjects

#### Year 3 Subjects

- Major Project
- Data Visualisation & Analytics
- Service Quality & Management

#### University Pathway Programme (NUS/IPM) ^

- Built Environment Engineering Principles & Practice
- · Construction Technology
- · Infrastructure & Project Management Law
- Introduction to Building Performance
- · Structural Systems

#### University Pathway Programme (SMU/IS) #^

- Algorithms & Programming
- Business Process Analytics & Solutioning

#### University Pathway Programme (SMU/CS) # ^

- · Collaborative Software Development
- Mathematical Foundations of Computing

#### University Pathway Programme (SMU/SW) #7

- · Algorithms & Programming
- Operating Systems & Networking

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Career Opportunities**

Armed with multidisciplinary skills, you'll find employment in the facilities management or development teams in the airport, hospitality and tourism, events and convention, leisure and entertainment, integrated resort, as well as business and finance sectors, as:

- · Asset Management Executives / Managers
- BIM Modellers
- Facility Management Executives / Managers
- · Fire Safety Managers
- Property or Project Executives / Managers
- Sustainability Executives / Managers

You'll also be able to pursue numerous certifications recognised by the industry, such as:

- BizSAFE Level 2 (Risk Management)
- BizSAFE Level 4 (Workplace Safety & Health Management)
- Fire Safety Manager certification from SCDF
- Digital Delivery Management Certification – Tier 4 (Provisional)
- ICDL Microsoft Office Certification (PowerPoint, Excel and Excel Advanced)
- Project Management Associate Certification (CAPM)

Note: Applicants should not be suffering from severe vision impairment.

<sup>^</sup> For selected students







#### The Course

Industry 4.0 is transforming the modern workplace. This course prepares you for the new era of advanced manufacturing, where humans, machines, and systems communicate and collaborate as one. You'll learn to master the application of robotics, automation, 3D printing and data analytics in technological areas such as cyber-physical systems, virtual manufacturing, machine vision and pattern recognition.

In your final year, you can choose one of these exciting elective clusters for further specialisation: 3D Printing, Advanced Engineering Skills, Advanced Manufacturing, Aerospace Systems, Intralogistics & Cybersecurity, Sustainability in Engineering, Wafer Fabrication Process & Equipment Technologies, or Industry Practice.

#### Year 1 Subjects

- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1 & 2
- Electronic Devices & Circuits
- **Electronic Prototyping**
- Engineering Mathematics 1 & 2
- **Engineering Physics**

#### Year 2 Subjects

- Artificial Intelligence in Engineering
- Control & Automation
- Data Visualisation & Analytics
- **Engineering Drawing**
- **Engineering Mathematics 3**
- Integrated Project
- Machining Technology
- Principles of Dynamics
- Robotics & Automation
- Statics & Strength of Materials

#### Year 3 Subjects

Major Project

#### 3D Printing Elective Cluster #

- Advanced CAD & Simulation
- CAD & Additive Manufacturing

#### Advanced Engineering Skills Elective Cluster #

Advanced Skills Practices

#### Advanced Manufacturing Elective Cluster #

- Machine Vision & Pattern Recognition
- Smart Manufacturing System

#### Aerospace Systems Elective Cluster #

- Gas Turbine Engine
- Thermodynamics

#### Intralogistics & Cybersecurity Elective Cluster #

- Distribution Centre Management
- IoT Security

#### Sustainability in Engineering Elective Cluster # (Choose any 2 subjects under this cluster)

- Green Urban Transportation & Energy Storage
- Life Cycle Analysis
- Renewable Energy Technologies
- Solar Photovoltaic Technology & Leasing

#### Industry Practice Elective Cluster#

Guided Work-based Learning

#### University Pathway Programme (NUS/EE) #^

- Electrical Engineering Principles & Practice
- Fundamentals of Physics
- Introductory Mathematics
- Programming Methodology

#### University Pathway Programme (NUS/ME) #^

- **Engineering Principles & Practice**
- Fundamentals of Physics
- Introductory Mathematics
- Programming Methodology

#### University Pathway Programme (SUTD) #^

- Computational Thinking for Design
- Modelling & Analysis
- Physical World
- Social Science: Understanding Behaviour. Culture & Society

#### University Pathway Programme (SMU/IS) # ^

- Algorithms & Programming
- **Business Process Analytics & Solutioning**

#### University Pathway Programme (SMU/CS) # ^

- Collaborative Software Development
- Mathematical Foundations of Computing

#### University Pathway Programme (SMU/SW) #7

- Algorithms & Programming
- Operating Systems & Networking

#### Wafer Fabrication Process & Equipment Technologies #

- Cleanroom & Vacuum Technology
- Wafer Fabrication Technology
- \* Students are to choose one of these elective clusters
- For selected students

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
  - Sustainability & Climate Action
  - Student Internship Programme

#### TPFun Elective Subject

Beyond the Classroom: Guided Learning

#### **Career Opportunities**

This course is strategically aligned with the Skills Framework and widely recognised across multiple sectors. It will help you succeed in advanced manufacturing fields, including aerospace, precision engineering, semiconductor production, and pharmaceutical manufacturing. As technology evolves, the course places a strong emphasis on sustainable engineering practices, ensuring that you are not only prepared to meet the industry's current demands but also poised to lead in setting new sustainability standards.

#### Potential jobs include:

- Aerospace Technologists
- Associate / Assistant / **Application Engineers**
- **Development Technologists**
- Equipment / Maintenance / Mechanical Engineers
- Manufacturing / Production / **Process Control Engineers**
- Research & Development Specialists
- **Robot Coordinators**

Note: Applicants should not be suffering from severe colour vision deficiency, uncontrolled epilepsy, profound hearing loss or severe vision impairment.



## SUMMARY OF ENGINEERING COURSES & SPECIALISATIONS

DIPLOMA	SPECIALISATION
[T50] AEROSPACE ELECTRONICS	Avionics Systems     CAAS-approved SAR-147 Licensed Aircraft Engineer Training     Flight Training
[T51] AEROSPACE ENGINEERING	Airframe, Engines & Composites     CAAS-approved SAR-147 Licensed Aircraft Engineer Training     Flight Training
[T29] ARCHITECTURAL TECHNOLOGY & BUILDING SERVICES	Building Information Modelling & Management     Digital Architecture     Environmental Sustainable Design     Green Energy Management
[T04] AVIATION MANAGEMENT	Airline Business     Airport Management     Air Traffic Management     Flight Training & Operations
[T38] BIOMEDICAL ENGINEERING	Audiometry & Hearing Devices     Clinical Practices     Healthcare Analytics     Medical Devices & Imaging     Medical Device Regulations
[T43] BUSINESS PROCESS & SYSTEMS ENGINEERING	Business Processes & Analytics     Systems Engineering & Simulation
[T13] COMPUTER ENGINEERING	Artificial Intelligence     Full Stack Development     Intelligent Automation     Internet of Things (IoT)     Virtual Reality (VR)
[T65] ELECTRONICS	Aerospace Electronics     Industrial Artificial Intelligence     Intralogistics & Cybersecurity     Robotics     Semiconductor Technologies     Sustainability in Engineering
[T28] INTEGRATED FACILITY MANAGEMENT	Project Management Smart Technologies in Facilities Management Sustainable Facilities Management Practices Workplace Safety & Health Management
[T66] MECHATRONICS	3D Printing     Aerospace Systems     Advanced Manufacturing     Machine Vision & Pattern Recognition     Robotics & Automation     Sustainability in Engineering



## SCHOOL OF HUMANITIES & SOCIAL SCIENCES

How do young children make sense of the world? What happens to you socially, physically and mentally when you grow older? Why do you think and behave the way you do in different contexts and situations?

If you are curious about the answers to these questions, you will likely find the diploma courses at the School of Humanities & Social Sciences (HSS) to be your cup of tea. With highly experienced and qualified tutors and lecturers in early childhood development & education, health and gerontology, and psychology, HSS has more than 10 years of experience delivering people-oriented courses and specialisations.

Better still, our courses prepare you for jobs in the Care Economy—the part of the economy that offers care and support services that contribute to the nurturing and development of our current and future generations. The <sup>1</sup> International Labour Organisation noted that the Care Economy is growing, with demand for care services increasing in many regions across the world.

This means that you will be training in a sector that will likely see increased demand for workers in the coming years. What better way to have a fulfilling life than to work at something you are passionate about?

Best of all, your training in HSS does not restrict your options. Your training will be broad-based and can qualify you for job opportunities and roles beyond the humanities and social sciences.

<sup>1</sup> From https://www.ilo.org/global/topics/care-economy/lang--en/index.htm

#### Full-time diploma courses

- · [T68] Early Childhood Development & Education
- [T48] Psychology Studies
- · [T53] Social Sciences in Gerontology

#### General and admissions enquiries

Tel: 6788 2000

Email: admissions@tp.edu.sg

#### Course enquiries

Tel : 6780 6565

Email : hsshotline@tp.edu.sg Website : www.tp.edu.sg/hss

#### For the latest tuition fee amounts, visit:

www.tp.edu.sg/coursefees

## MINIMUM ENTRY REQUIREMENTS

To be eligible for:

[T68] Early Childhood Development

& Education

English Language\*
Grade 1 – 6

Any one of the 1st group of Relevant Subjects for the ELR2B2-A Aggregate Type Grade 1 – 6

Any one of the 2nd group of Relevant Subjects for the ELR2B2-A Aggregate Type Grade 1 – 6

To be eligible for selection, students must also have sat for Additional Mathematics / Mathematics.

'All applicants with a C5 or C6 in EL in the O-Level examination are given two years from the point of teacher registration to obtain at least a B4 or any of the English Language Acceptable Alternatives (ELAA). For more information on ELAA, go to https://bit.ly/NIECELAA

The main medium of instruction for all these subjects must be in English, except for a language subject.

Note: Applicants would need to be certified medically fit for study by a certified medical doctor, in the context of working with young children. That is, the requirements will be aligned to ECDA's medical requirements for pre-school teachers. Applicants have to pass a pre-admission medical examination to enter the course. More details on the medical examination can be found at https://bit.ly/NIECTP-Medical

#### To be eligible for:

[T48] Psychology Studies [T53] Social Sciences in Gerontology

English Language Grade 1 – 6

Additional Mathematics / Mathematics

Grade 1 – 7

Any one of the 1st group of Relevant Subjects for the ELR2B2-A Aggregate Type

Grade 1 – 6

For details on ELR2B2-A computation, visit: www.tp.edu.sg/elr2b2





## EARLY CHILDHOOD DEVELOPMENT & EDUCATION



Scan for full details, or visit: www.tp.edu.sg/t68

#### The Course

If you are passionate about how children learn and grow, you could play a vital role in shaping Singapore's next generation as an early childhood educator. The Diploma in Early Childhood Development & Education (ECDE), conducted by the National Institute of Early Childhood Development (NIEC) in collaboration with Temasek Polytechnic (TP), equips you with the skills and knowledge to nurture young minds and excel in this meaningful profession.

In this course, you'll gain a deeper understanding of child development while mastering curriculum planning for young children. You'll get to apply the skills you have learnt in practice at preschools. This will allow you to gain valuable hands-on experience as you conduct lessons alongside trained early childhood professionals. In your final year, you can choose to specialise in the Visual Arts or Mother Tongue Language Teaching Malay track^. With your diploma recognised by the Early Childhood Development Agency (ECDA), you'll be all set to enter the early childhood sector upon your graduation to nurture, inspire, educate and care for the little ones!

^Subject to prevailing terms and conditions.

#### Year 1 Subjects

- · Aesthetics & Creative Expression
- · Child Development 1
- · Child Development 2
- · InfoComm Technology Essentials
- Language & Literacy
- · Motor Skills Development
- · Practicum 1
- · The Early Years: Theory to Practice

#### Year 2 Subjects

- · Curriculum Planning & Implementation
- Discovery of the World
- Early Numeracy
- Infant & Toddler Learning Environment
- · Practicum 2
- The Preschool Years: Theory to Practice
- · Working with the Exceptional Child

#### Year 3 Subjects

- The Reflective Practitioner in Practice
- · Student Internship Programme
- Student can choose any two general electives from the following, OR be part of the Visual Arts (VA) track or the new Mother Tongue Language Teaching-Malay (MTL-Malay) track

## Choose either the General Electives OR a specialised Track

#### General Electives (Choose two)

- 2D & 3D Art
- Assessment & Differentiated Instructions
- · Book Illustration & Design for Children
- Children's Literature
- Drama in Preschool Education (Cross Campus Elective)

#### Visual Art Track (Compulsory three subjects)

- 2D & 3D Art
- · Book Illustration & Design for Children
- · Digital & New Media

## Mother Tongue Language Teaching-Malay Track (Compulsory three subjects)

- Malay Grammar for Effective Communication
- Malay Language & Literacy
- Teaching Malay through the Arts

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

Learning doesn't have to stop after you have entered the sector. Take your early childhood career to the next level and deepen your expertise with NIEC's Specialised Certificates, Diplomas, and Post-Diplomas courses. These courses will equip you to progress into roles such as Lead Preschool Teacher, Centre Principal, Learning Support Educator, Early Intervention Educator, and more.

If you are considering furthering your studies, the diploma is recognised by local and overseas universities for admission. At Institutes of Higher Learning (IHLs) offering early childhood-related degrees, you may be eligible for advanced standing and be granted some exemptions.

For more details, visit: niec.edu.sg/alumni/alumni-services/

#### **Career Opportunities**

As a graduate of this course, you can work as an early childhood educator or work in children-related fields. With further studies and training, a wide variety of options are available in areas such as:

- Child Support and Family Services
- Curriculum Development
- Play Therapy
- Special Needs Education
- · Teacher Education
- Leadership and Management
- Learning Support
- Early Intervention

For more information on NIEC, please visit **www.niec.edu.sg**.







#### The Course

Why do people think and behave the way they do? Why are some individuals able to understand others with such ease? If you would like to gain insights into the range of behaviours and perspectives that you and those around you exhibit, and if you enjoy working with people, psychology may just be the right course for you.

This course provides you with a broad foundation in the study of human behaviour and mental processes. It prepares you for a career in the social service and special needs education sectors, where psychology is applied to improve the lives of many. In addition to core modules in psychology and the social sciences, you will have the flexibility to select elective subjects that align with your personal interests and career aspirations.

Through the course, you will discover how psychology can be meaningfully applied in real-world settings to empower you to make a positive difference in the lives of others.

#### Year 1 Subjects

- Counselling Psychology
- · Developmental Psychology
- Foundation Psychology
- Introduction to Research Methods & Statistics
- · Introduction to Social Services
- · Introduction to Special Needs Education
- Survey & Qualitative Research Methods

#### Year 2 Subjects

- Applied Psychology Project A (Survey Design)
- Applied Psychology Project B (Experimental Design)
- Cognitive Psychology
- · Contemporary Issues in Psychology
- · Diploma Elective 1
- Diploma Elective 2
- · Experimental Design & Statistics
- · Group Work: Processes & Facilitation
- Social Psychology

#### Year 3 Subjects

- Community Psychology
- Diploma Elective 3
- · Industrial & Organisational Psychology
- Maior Proiect

#### **List of Diploma Elective Subjects**

- Abnormal Psychology
- Assessments & Interventions in Special Needs Education
- Classroom Management & Strategies in Special Needs Education
- Deviant Behaviour & Rehabilitation
- Evidence-Based Strategies in Special Needs Education
- Health Psychology

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

## What and where are our graduates studying?

Our graduates are already making their mark, furthering their education both in Singapore and internationally. Many have successfully progressed to degree programmes in Social Sciences, Social Work, Psychology, and more.

#### Advanced Standing Opportunities

Temasek Polytechnic continues to explore and establish advanced standing arrangements with universities.

This means that eligible students may be granted module exemptions or credit transfers, allowing them to complete their degree in a shorter time. Advanced standing is typically offered based on good academic performance and the relevance of diploma subjects to the undergraduate course.

Please refer to our website for more information.

#### **Career Opportunities**

Depending on chosen electives and/or elective concentrations, graduates may consider entering careers in the following areas:

- Psychology
- Research
- Social Services
- Special Needs Education
- Other People-oriented Careers e.g. Education and Law Enforcement







#### The Course

Ever wondered what life will be like 20 or 30 years from now?

As people live longer, how can we build a society where everyone, not just the young, can live well, stay connected, and feel valued? If you're passionate about people and want to make a real difference, the Diploma in Social Sciences in Gerontology is for you. This course explores both the present and future of ageing, focusing on the challenges and opportunities of a rapidly ageing population in Singapore and beyond.

You'll discover what it means to age well, physically, mentally, emotionally, and socially, while gaining practical skills in psychology, sociology, gerontology, health, innovation, and community development. Whether you're supporting mental well-being, promoting active ageing, or creating inclusive communities, your work will make a lasting impact on others, and deepen your own understanding of ageing. In addition to core modules in social sciences, you'll have the flexibility to choose electives that match your interests and career goals.

Ageing isn't just about older adults. It's a critical social issue that affects all of us, at every stage of life. And we need fresh thinkers like you to help reimagine what growing older can and should look like.

#### Year 1 Subjects

- · Anatomy & Physiology of Ageing
- Applied Social Research
- Introduction to Gerontology
- Introduction to Health & Social Services
- Introduction to Sociology
- Managing Adult Life Transitions
- Programme Planning for Health Promotion
- Psychology of Ageing

#### **Year 2 Subjects**

- Coaching & Case Management
- Gerontechnology & Behaviour Design
- · Mental Health & Dementia Management
- Physical Activities & Wellness for Older Adults
- · Population Health & Ageing
- Silver Leisure & Lifestyle
- Social Policy in Ageing

#### Elective Cluster Subject 1 (choose one)

- Care & Therapy Subject 1: Community-Based Nursing Support
- Social Work Subject 1:

  Basic Gerontological Counselling

#### Year 3 Subjects

- Administration for Non-Profit Organisations
- Advance Care Planning & End-of-Life Issues
- Community Development with Older Adults
- Intergenerational Service-Learning
- Leadership Development in Non-Profit Organisations

#### Elective Cluster Subject 2 (choose one)

- Care & Therapy Subject 2: Community-Based Therapy Support
- Social Work Subject 2: Working with Older Adults & Their Families

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- · Sports & Wellness
- · Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

• Beyond the Classroom: Guided Learning

#### **Further Studies**

#### What and where are our graduates studying?

Our graduates are already making their mark, furthering their education both in Singapore and internationally. Many have successfully progressed to degree programmes in Social Sciences, Social Work, Psychology, Occupational Therapy, Physiotherapy, Nursing, and more.

#### Advanced Standing Opportunities

Temasek Polytechnic continues to explore and establish advanced standing arrangements with universities.

This means that eligible students may be granted module exemptions or credit transfers, allowing them to complete their degree in a shorter time. Advanced standing is typically offered based on good academic performance and the relevance of diploma subjects to the undergraduate course.

Please refer to our website for more information.

#### Career Opportunities

The community needs you! Look forward to these exciting and meaningful careers that are high in demand now:

- · Assistant Care Coordinator
- Assistant Health Coach
- · Community Care Executive
- Programme Executive
- Social Work Assistant
- Therapy Assistant
- Volunteer Management Executive
- · Wellbeing Coordinator



## SCHOOL OF INFORMATICS & IT

Walk into any bank, airport, school, office, hospital, park, theatre, or train station, and you'll notice the incredible power and influence of Information Technology (IT). You see IT in our mobile apps, the security applications that protect our computers, the chatbots on our phones, the Generative Al tools we use, and the digital games we play.

Here at the School of Informatics & IT (IIT), you'll learn how to leverage IT to improve business processes, ensure efficiency and enrich lives. Through our courses, you'll receive a robust, practical, and hands-on foundation, and better understand specialised areas like artificial intelligence, analytics, big data, cybersecurity, digital forensics, immersive media, and software development. You'll learn to harness the power of IT to make a difference in the world around you.

As a leader in the field, we are recognised as a forward-looking and progressive school that provides a range of highly relevant courses. Our emphasis on developing problem-solving and critical thinking skills helps us cultivate intelligent individuals who are independent, analytical, and able to respond effectively to the needs of people and organisations. We have a strong culture of applied learning, innovation and enterprise to nurture industry-ready professionals. We also emphasise critical thinking, problem-solving, global awareness, communication and teamwork because these are key attributes for people working in a global economy.

Through our Student Internship Programme, you'll gain real-life work experience in local or overseas companies. You'll be attached to a company for six months or more as an intern in your final year. This rich experience will prepare you well as an IT professional and give you an edge when seeking employment.

#### Common entry programme

[T63] Common ICT Programme

#### Full-time diploma courses

- [T69] Applied Artificial Intelligence
- · [T60] Big Data & Analytics
- [T62] Cybersecurity & Digital Forensics
- · [T58] Immersive Media & Game Development
- [T30] Information Technology

#### General and admissions enquiries

Tel : 6788 2000

Email : admissions@tp.edu.sg

#### Course enquiries

Tel : 6780 5158
Email : iit@tp.edu.sg
Website : www.tp.edu.sg/iit

#### For the latest tuition fees, visit:

www.tp.edu.sg/coursefees

## MINIMUM ENTRY REQUIREMENTS

To be eligible for any School of Informatics & IT diploma course:

English Language Grade 1 – 7

Additional Mathematics / Mathematics Grade 1 – 6

Any one of the 2nd group of Relevant Subjects for the ELR2B2-C Aggregate Type Grade 1 – 6

For details on ELR2B2-C computation, visit: www.tp.edu.sg/elr2b2







#### The Course

Are you excited and curious about new technologies? Do you want to apply technology to enrich the lives of those in your community, businesses and organisations? Are you the type who wants to be the first to try out new technologies? Do you want a career where you work with emerging technologies in fields such as analytics, artificial intelligence, cybersecurity, financial technologies, immersive media or software development? If your answer to most of these questions is "YES", then the Common ICT Programme is one that you should consider.

In this one-year programme, you'll learn the fundamentals of information technology through a strong foundation in modules such as computational thinking, data analytics, cybersecurity, application development and user experience design. Before the programme's completion, you'll choose which of the following diploma courses you want to undertake for your next two years of study:

- [T69] Applied Artificial Intelligence
- [T60] Big Data & Analytics
- · [T62] Cybersecurity & Digital Forensics
- [T58] Immersive Media & Game Development
- · [T30] Information Technology

The Common ICT Programme gives you time to learn more about the School's diploma courses and make a more informed decision on the job role you want to pursue.

#### **Programme Subjects**

- Application Development Project
- Computational Thinking
- Cybersecurity Fundamentals
- Data Visualisation & Analytics
- Database Application Development
- · Data Structures & Algorithms
- · Logic & Mathematics
- Network & Cloud Technology
- · User Experience & Interface Design

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### Note

Students in the Common ICT Programme will take selected TPFun subjects during the programme, and complete the remaining subjects after streaming into their respective diploma courses.







#### The Course

Artificial Intelligence (AI) is already transforming our daily lives. We see it in smartphone chatbots such as Siri or Google Assistant. All uses data from our search patterns, favourite movie genres, shopping habits, and more to push information that may interest us when we surf the web. Indeed, AI is changing business processes, impacting how we do things in healthcare and transportation. In fact, it is quickly impacting most facets of life.

This course introduces you to fundamental Al concepts, the various applications of Al, and how smart applications can be created. You'll build essential foundations in IT in your first year and then proceed in your second year to learn core subjects of Al, such as machine learning and deep learning. Our broad-based and hands-on training will enable you to develop smart applications for any industry you join, such as commercial businesses, healthcare, education, transportation, manufacturing, etc. This course gives you an excellent head start to building a career in this exciting field.

#### Year 1 Subjects

- Application Development Project
- Computational Thinking
- · Cybersecurity Fundamentals
- · Data Visualisation & Analytics
- · Database Application Development
- · Data Structures & Algorithms
- Logic & Mathematics
- · Network & Cloud Technology
- · User Experience & Interface Design

#### **Year 2 Subjects**

- · Al & Ethics
- Al Agents & Intelligent Automation
- Conversational Al Systems Development
- Deep Learning & Intelligent Vision
- · Generative AI Systems Development
- · Machine Learning for Developers
- · Machine Learning Operations
- Natural Language ProcessingPrinciples of Computer Vision

#### Year 3 Subjects

- Elective subjects#
- Major Project

\*Students will take two elective subjects (see page 67)

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

As a graduate of this course, you can take up the SkillsFuture Work-Study Programme (WSP), which leads to a Specialist Diploma in Business Analytics or other IT-related WSPs. You can choose to take up the Specialist Diploma in Al Solutions Development, Al-Driven Data Analytics, or similar programmes to deepen your skills.

You can also pursue a degree in Computer Science, Information Systems or other related programmes at any local or overseas university, and you can expect to receive advanced standing at many of these institutions.

- Al Engineer
- Applications Developer
- Computer Vision Engineer
- Data Analyst
- Frontend Developer
- Machine Learning Engineer
- Robotics Process
   Automation Engineer
- Software Engineer







#### The Course

Content streaming companies, like Netflix and Disney+, recommend movies and shows based on subscribers' viewing histories and preferences. Social media platforms such as Instagram showcase feeds based on users' interactions with posts. Online retail giant Amazon uses big data to shorten delivery times by predicting online purchasing habits. In fact, Amazon has so much confidence in its data and prediction algorithms that it starts the delivery process even before the customer clicks on the 'proceed to checkout' button!

These organisations can gain a competitive edge over their rivals by leveraging the power of analytics. If data is the new oil, then analytics is the refinement process that helps organisations make sense of the large volumes of data they have.

Indeed, with big data driving decision-making in businesses, it is an exciting time for big data and analytics professionals! When you undertake this course, you'll work with data at your fingertips and use analytics tools to provide data-driven insights to companies. You'll receive broad-based training integrated with real workplace experience through internships, mentorships, and project collaborations. You'll graduate with industry-recognised certifications that will be advantageous when pursuing further studies or job opportunities in the field of analytics.

#### Year 1 Subjects

- · Application Development Project
- · Computational Thinking
- · Cybersecurity Fundamentals
- Data Visualisation & Analytics
- · Database Application Development
- Data Structures & Algorithms
- Logic & Mathematics
- · Network & Cloud Technology
- · User Experience & Interface Design

#### **Year 2 Subjects**

- Data Engineering in the Cloud
- Data Mining & Business Analytics
- · Data Science Essentials
- Data Storytelling
- Data Warehousing
- & Business Intelligence
- Machine Learning for Decision Making
- · Quantitative Analysis
- Text & Social Media Analytics

#### Year 3 Subjects

- Elective subjects#
- Major Project

\*Students will take two elective subjects (see page 67)

#### **TP Fundamentals (TPFun) Subjects**

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

As a graduate of this course, you can take up the SkillsFuture Work-Study Programmes (WSP) that lead to a Specialist Diploma in Business Analytics or other IT-related WSPs. You can also pursue the Specialist Diploma in AI-Driven Data Analytics, DevOps, AI Solutions Development or similar programmes.

You can also pursue a degree in Computer Science, Information Systems or other related programmes at any local or overseas university, and you can expect to receive advanced standing at many of these institutions.

- · Associate Business Analyst
- · Business Intelligence Analyst
- Data Analyst
- Data Engineer
- Database Administrator
- Machine Learning Engineer







#### The Course

We use computers, mobile phones and digital devices to access information daily. Using the Internet for communication and monetary transactions is also commonplace. However, these services have become the prime target of hackers who attempt to access our computer systems to steal account details, demand money through ransomware and plant malware and viruses that compromise our systems. Organisations today seek qualified professionals who can patrol and protect our information and computing systems from these cyber villains.

In this course, you'll learn how to protect and defend computing and information systems, applications and networks to ensure they are secure. Should a cybersecurity breach occur, you'll be knowledgeable in retrieving and reconstructing the evidence, investigating the cause, and advising on preventing further attacks. You'll undergo hands-on training at the Operational Technology Security Lab, a collaboration with Fortinet, Fujitsu, Cisco and Panasonic; and training in security operations at the Security Information & Event Management (SIEM) Centre.

In addition, you'll have the opportunity to identify, contain, analyse and eradicate live malware samples in our Malware Analysis Centre, a facility set up with ST Engineering, Palo Alto Networks and CrowdStrike. Here, you'll learn from these industry leaders who will impart knowledge and skills in handling and analysing malware and operations to supplement and add value to your broad-based education, enabling you to support any industry as a future IT professional.

#### Year 1 Subjects

- Application Development Project
- · Computational Thinking
- · Cybersecurity Fundamentals
- · Data Visualisation & Analytics
- Database Application Development
- Data Structures & Algorithms
- · Logic & Mathematics
- Network & Cloud Technology
- · User Experience & Interface Design

#### **Year 2 Subjects**

- · Ethical Hacking & Intrusion Prevention
- · Enterprise Networking
- · Forensics in Digital Security
- · Incident Response & Management
- · IT Security Management & Audit
- Network Security
- Secure Web Applications
- Servers Administration & Security

#### Year 3 Subjects

- · Elective subjects#
- Major Project

\*Students will take two elective subjects (see page 67)

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### **Further Studies**

After you graduate from this course, you can take up a SkillsFuture Work-Study Programme (WSP). You can also pursue the Specialist Diploma in Information Security & Forensics or similar programmes.

You can also pursue a degree in Computer Science, Information Systems or other related programmes at any local or overseas university, and you can expect to receive advanced standing at many of these institutions.

- Cyber Risk Analyst
- Incident/Forensic/Threat Investigator
- IT Security Auditor
- Network Infrastructure Support Specialist
- Security Operations Analyst
- · Security Penetration Tester







#### The Course

Want to create your own exciting games and interactive digital worlds? Curious about how the latest immersive technologies like AR and VR are transforming the way we play, learn, and work? This course gives you the chance to turn your passion into reality.

You'll learn how to bring ideas to life by combining core development skills with the creativity of game design. From your very first concept to a fully working game, you'll get hands-on experience every step of the way. Along the journey, you'll be guided by our lecturers who have worked on projects ranging from VR training tools in healthcare, to AR experiences in hospitality, to serious games in education and beyond.

But learning doesn't stop in the classroom. You'll get to work with game studios and immersive media companies on cutting-edge projects, gain real-world exposure through industry internships, and even travel overseas on learning journeys to see how the global industry is evolving. You'll also work with industry-standard tools like Unity, giving you the same platform used by game studios worldwide. On top of that, you'll graduate with professional certifications that are recognised by the immersive media and games industry, thus giving you a real edge when it comes to future studies, internships, or landing your dream job.

If you're ready to create, experiment, and push the boundaries of immersive experiences, this course is your perfect starting point.

#### Year 1 Subjects

- · Application Development Project
- Computational Thinking
- Cybersecurity Fundamentals
- Data Visualisation & Analytics
- · Database Application Development
- Data Structures & Algorithms
- · Logic & Mathematics
- Network & Cloud Technology
- · User Experience & Interface Design

#### **Year 2 Subjects**

- 3D Modelling
- Augmented Reality Application Development
- · Computer Graphics & Programming
- · Game Design
- · Game Development
- Immersive UiÜx
- · Maths & Physics Programming
- Programming with Game Engines

#### Year 3 Subjects

- Elective subjects#
- · Major Project

\*Students will take two elective subjects (see page 67)

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### **TPFun Core Subjects**

- · Career Readiness & Communication
- Current Issues & Critical Thinking
- Effective Personal Leadership
- Global Studies
- Innovation & Entrepreneurship
- · Sports & Wellness
- Sustainability & Climate Action
- · Student Internship Programme

#### **TPFun Elective Subject**

 Beyond the Classroom: Guided Learning

#### Further Studies

As a graduate of this course, you can take up the SkillsFuture Work-Study Programmes (WSP), which lead to the Specialist Diploma in Business Analytics or other IT-related WSPs. You can choose to take up the Specialist Diploma in Al Solutions Development, Al-Driven Data Analytics or similar programmes to deepen your skills.

You can also pursue a degree in Computer Science, Information Systems or other related programmes at any local or overseas university, and you can expect to receive advanced standing at many of these institutions.

- · Applications Developer
- Augmented Reality/Virtual Reality/ Mixed Reality Developer
- Game Developer/Programmer
- · Level Designer/Game Designer
- Mobile App Developer
- UI/UX Designer







#### The Course

How does my Grab app locate the nearest available driver? How does my home know to turn on the lights five minutes before I arrive? How can I create a music player for my phone? How can I design an engaging web profile? The answers to all these questions have one thing in common—they are all created and driven by information technology.

In today's world, intelligent Al-driven applications are changing everything around us. In this course, you'll acquire essential foundation skills in IT in your first year. Subsequently, you'll learn best industry practices and develop skills in software development and emerging technologies that will enable you to be at the forefront of change when you graduate and be equipped to manage change in the future.

Graduates of this course will have the necessary skills and knowledge to develop innovative software solutions through coding that will transform and disrupt society meaningfully. The broad-based and hands-on training you undergo here will also enable you to enjoy job opportunities in any industry you seek to join.

#### Year 1 Subjects

- · Application Development Project
- · Computational Thinking
- Cybersecurity Fundamentals
- Data Visualisation & Analytics
- Database Application Development
- Data Structures & Algorithms
- Logic & Mathematics
- Network & Cloud Technology
- User Experience & Interface Design

#### **Year 2 Subjects**

- · Agile Methodology & Design Thinking
- · Application Security
- · Cloud Application Development
- DevOps Essentials
- · IoT Application Development
- · Machine Learning for Developers
- · Mobile App Development
- Full Stack Web Development

#### Year 3 Subjects

- · Elective subjects#
- · Major Project

\*Students will take two elective subjects (see page 67)

#### TP Fundamentals (TPFun) Subjects

Gain crucial life skills to navigate the modern workplace as a future-ready individual and team player.

#### TPFun Core Subjects

- · Career Readiness & Communication
- · Current Issues & Critical Thinking
- · Effective Personal Leadership
- · Global Studies
- · Innovation & Entrepreneurship
- Sports & Wellness
- Sustainability & Climate Action
- Student Internship Programme

#### TPFun Elective Subject

 Beyond the Classroom: Guided Learning

#### **Further Studies**

As a graduate of this course, you can take up the SkillsFuture Work-Study Programmes (WSP), which lead to a Specialist Diploma in Business Analytics or other IT-related WSPs. You can also take Specialist Diploma courses in areas such as AI Solutions Development, AI-Driven Data Analytics, and DevOps.

You can also pursue a degree in Computer Science, Information Systems or other related programmes at any local or overseas university, and you can expect to receive advanced standing at many of these institutions.

- Applications Developer
- Application Support Engineer
- DevOps Engineer
- Mobile Applications Developer
- Software Engineer
- Software Tester
- SysOps Engineer
- Systems Analyst
- UI/UX Designer

## SUMMARY OF INFORMATICS & IT COURSE ELECTIVE CLUSTERS

COURSE	ELECTIVE SUBJECTS
ALL SCHOOL OF INFORMATICS & IT COURSES	Business Development & Marketing  Business Development  Digital Marketing
	Industry Practice • Guided Work-based Learning 1 • Guided Work-based Learning 2
	SMU Pathway Programme Information Systems Pathway Algorithms & Programming Business Process Analysis & Solutioning
	Computer Science Pathway  Mathematical Foundations of Computing Collaborative Software Development
	Software Engineering Pathway  • Algorithms & Programming  • Operating Systems & Networking
	Software & Analytics for Sustainability  Data Analytics for Environmental Sustainability Green Software Principles
[T69] APPLIED ARTIFICIAL INTELLIGENCE	Applied Al for Industry  • Al for Advanced Manufacturing  • Al for Cybersecurity
[T60] BIG DATA & ANALYTICS	Advanced Analytics  • Deep Learning & Object Recognition  • Recommendation Systems
	Advanced Manufacturing Technology  • Distribution Centre Management  • Industrial IoT Analytics
[T62] CYBERSECURITY & DIGITAL FORENSICS	Advanced Manufacturing Technology  • Distribution Centre Management  • Industrial IoT Analytics
	Digital Forensics  • Malware Analysis  • Mobile Device Forensics
	Enterprise Security Cloud Security Security Technology & Innovation
[T58] IMMERSIVE MEDIA & GAME DEVELOPMENT	Immersive Technology & AI  Game AI Immersive Technology Development
[T30] INFORMATION TECHNOLOGY	Advanced Manufacturing Technology  • Distribution Centre Management  • Industrial IoT Analytics
	Business Analytics  • Data Mining & Business Analytics  • Data Storytelling
	Fintech • Digital Banking & Financial Services • Introduction to Blockchain Application Development



For more exciting **#temasekpoly** content, follow us on social media.















www.tp.edu.sg