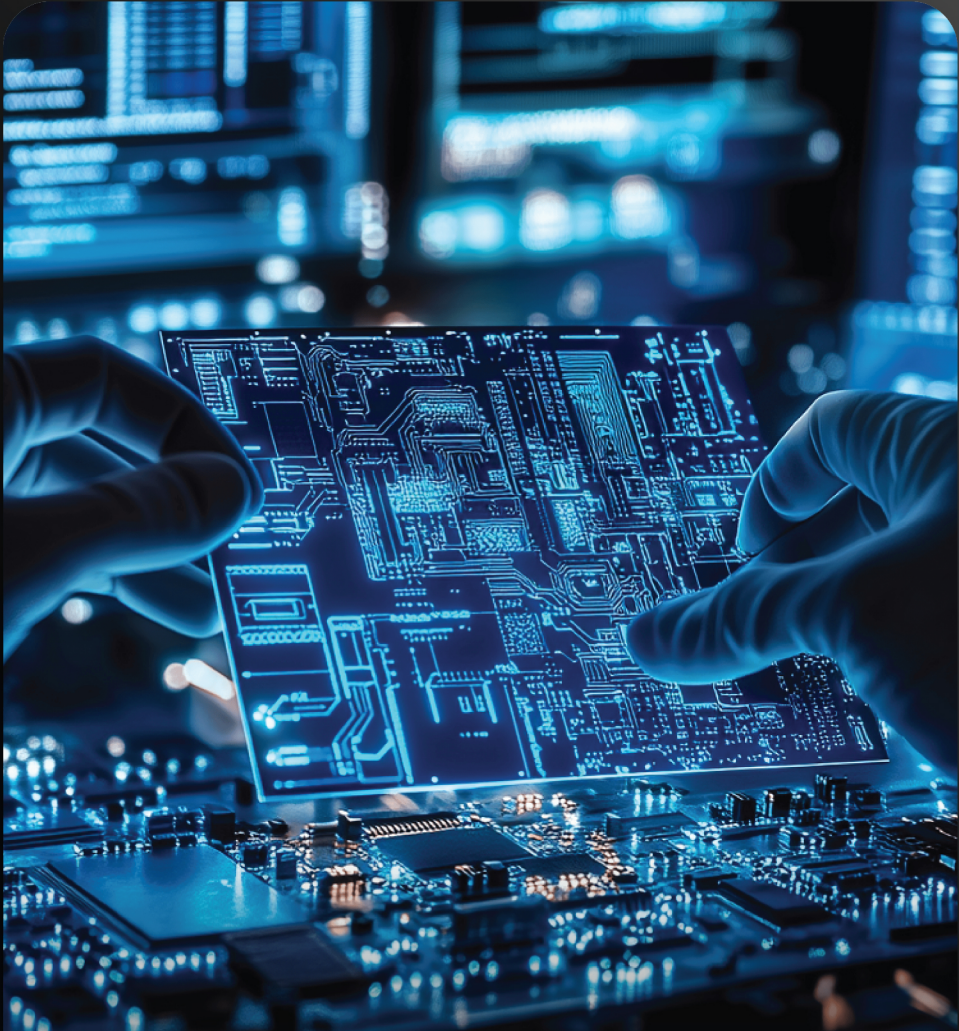


ELECTRONICS

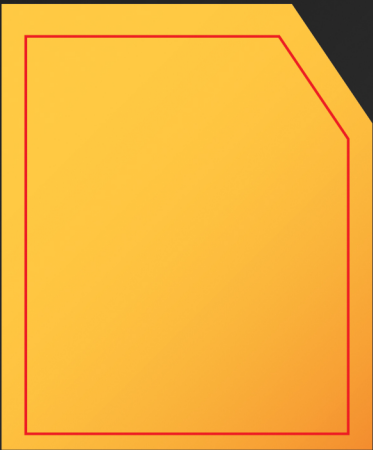
Temasek Polytechnic
School of Engineering



Empower our
hyper-connected world
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technologies!

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ELECTRONICS



Course Overview

Equip yourself 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 and sustainability for the environment!

- Chance to do research & development in some of our Centres of Excellence – such as the TP Advanced Manufacturing Centre, Healthcare Engineering Centre, or Robotics & Automation Centre – which focus on the latest technologies
- Get the priceless experience of working with partners who are industry leaders and experts in their respective fields
- Gain more in-depth working experience under a one-year internship programme (compared to 16 weeks for most other diplomas)

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, such as the aerospace, telecommunications, instrumentation & control, computing, consumer and industrial electronics industries.

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

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

Why This Course?



Fast-track Your Degree

Get a head start on university – Earn degree credits from NUS, SUTD, or SMU while studying at TP!



Top Employment Opportunities

Kick-start your future – Join a year-long internship in high demand industries and clinch your dream job!



Proven Excellence

Shine like a champion – Be among our top award winners and WorldSkills champs!



World Class Learning Facilities

Train like a pro – Get your hands on the latest tech at our modern facilities in robotics, clean energy, healthcare and advanced manufacturing!



Vibrant Industry Focus

Secure your future – Gain precious experience in our industry-focused high tech eco system!

What You'll Study

Year 1:

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

Year 2:

- 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:

- Major Project

Select the Elective Cluster that brings your dream job to life!

Advanced Engineering Skills Elective Cluster

- Advanced Skills Practices

Avionics Elective Cluster

- Aircraft Digital Systems
- Avionic Systems

Industrial Artificial Intelligence Elective Cluster

- 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

Wafer Fabrication Process & Equipment Elective Cluster

- Cleanroom & Vacuum Technology
- Wafer Fabrication Technology

Industry Practice Elective Cluster ^

- Guided Work-based Learning

University Pathway Programme (NUS/EE) ^
University Pathway Programme (NUS/ME) ^
University Pathway Programme (SUTD) ^
University Pathway Programme (SMU/IS, CS, SW) ^

^ For selected students



Temasek
POLYTECHNIC
CREATING TOMORROW

21 Tampines Ave 1
Singapore 529757



www.tp.edu.sg/eng



enghotline@tp.edu.sg



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T65
Diploma in
Electronics



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