

# ELSEWEDY

## UNIVERSITY OF TECHNOLOGY



**INTRODUCES THE INTERNATIONAL POLYTECHNIC MODEL TO EGYPT, BRIDGING THE GAP BETWEEN THEORY AND PRACTICE.**

ELSEWEDY UNIVERSITY OF TECHNOLOGY is the first polytechnic university in Egypt that offers a 4-year bachelor's degree in Engineering Technology (B.Tech), in an integrated set of practical and theoretical learning. SU Tech - Polytechnic of Egypt - is introducing leading international technologies and standards and preparing the Egyptian youth for leadership roles in the local and global markets.

### **ELECTRICAL & ELECTRONIC TECHNOLOGY PROGRAM**

Our program empowers students with cutting-edge technologies, preparing them for diverse industries. Graduates emerge as ethical experts, mastering systems, and applying knowledge to engineering challenges. They design, implement, and evaluate electronic systems, contributing to industry advancements. Our curriculum covers power systems, electronics, and more, equipping students with a comprehensive skill set to face the evolving landscape of electrical and electronics engineering.

**GRADUATES OF THIS PROGRAM WILL HAVE A CAREER PATH IN** →

- Power Systems Engineer.
- Smart Grid Administrator.
- Renewable Energy Integration Specialist.
- Technical Support Technologist
- Production and Operation Supervisor
- Control and Instrumentation Technologist
- Site Technologist for Plant Installation
- Quality Control Technologist
- Product Design and Development Technologist

### **ELIGIBILITY** *To Apply*

Thanaweya Amma and all equivalent certificates are eligible for SU Tech - Polytechnic of Egypt (IG - American Diploma - IB and more).

### **CONTACT US**

INFO@SUT.EDU.EG  
CALL US ON: 15755  
KILO 51, CAIRO-ISMAILIA  
DESERT ROAD

**Apply Now**



# ELECTRICAL & ELECTRONIC ENGINEERING TECHNOLOGY



SCHOOL OF  
**ENGINEERING TECHNOLOGY**

# ELECTRICAL ENGINEERING POWER TECHNOLOGY TRACK

## Year 1

<b>CET111:</b>	Introduction to Computer and Programming
<b>CET111:</b>	Digital Logic Design
<b>EPT111:</b>	Computer Aided Engineering Drawing
<b>EET111:</b>	Electrical Circuits I
<b>GEN113:</b>	Applied Mathematics I
<b>GEN113:</b>	Applied Mathematics II
<b>GEN121:</b>	Physics for Electrical Engineering
<b>GEN123:</b>	Heat Transfer and Thermodynamics
<b>HUM111:</b>	English Language I
<b>HUM121:</b>	Principles of Law, Human Rights & Ethics
<b>HUMUE1:</b>	University Elective I
<b>EPT191:</b>	EPT Internship I

## Year 2

<b>EET211:</b>	Electrical Circuits II
<b>EET231:</b>	Electronics
<b>EPT231:</b>	Solar Cell Engineering
<b>EPT241:</b>	Industrial Control Engineering Technology I
<b>EPT291:</b>	EPT Project I
<b>HUM231:</b>	Presentation Skills and Technical Writing
<b>EET213:</b>	Electric Circuit Design & PCB Manufacturing
<b>EET211:</b>	Power Electronics I
<b>EPT242:</b>	Electrical Machines I
<b>EPT243:</b>	Electrical Power Systems Technology I
<b>EPT292:</b>	EPT Project II

## Year 3

<b>CET221:</b>	Computer Organization
<b>CET222:</b>	Embedded Systems
<b>EET341:</b>	Electronics Measurements & Instruments
<b>EPT311:</b>	Power Electronics II
<b>EPT342:</b>	Electrical Power Systems Technology II
<b>GEN211:</b>	Probability & Statistics
<b>GEN311:</b>	Applied Mathematics III
<b>HUMUE2:</b>	University Elective II
<b>HUM311:</b>	English Language II
<b>EPT391:</b>	EPT Internship II

## Year 4

<b>EPT3E1:</b>	EPT Major Elective I
<b>EPT441:</b>	Electrical Distribution and Smart Grid Technologies
<b>EPT442:</b>	Electrical Transmission Systems
<b>EPT491:</b>	EPT Project III
<b>HUM431:</b>	Project Management
<b>EPT431:</b>	Renewable Energy Technology
<b>EPT437:</b>	High Voltage Engineering
<b>EPT457:</b>	Power Systems Analysis & Stability
<b>EPT492:</b>	EPT Project IV
<b>EPT4E1:</b>	EPT Major Elective II

# PROGRAM ELECTIVE *Courses*

## University Electives I and II

<b>HUM141:</b>	Principles of Economics
<b>HUM131:</b>	Innovation & Entrepreneurship
<b>HUM133:</b>	Communication and Negotiation Skills
<b>HUM132:</b>	Management and Leadership Skills
<b>HUM152:</b>	History of Art & Architecture
<b>HUM151:</b>	History of Engineering & Technology
<b>HUM153:</b>	The Character of Egypt
<b>HUM154:</b>	Arabic
<b>HUM251:</b>	Safety and Risk
<b>HUM114:</b>	Italian Language
<b>HUM113:</b>	German Language

## Major Electives I and II

<b>EPT444:</b>	Industrial Networks	<b>EPT443:</b>	Energy Management
<b>EPT451:</b>	Operation and Control of Power Systems	<b>EPT454:</b>	Electrical Drives Systems
<b>EPT452:</b>	Power System Protection & Switchgear	<b>EPT455:</b>	Electrical Installations and Energy Utilization
<b>EPT453:</b>	Selected Topic in Electrical Power I	<b>EPT458:</b>	Selected Topic in Electrical Power II

## Academic *Labs*

Electrical Circuits & Measurements Lab  
Electrical Installations & Maintenance Lab  
Industrial Electronics Lab  
Electric Traction Machines Lab  
Power Systems & Smart Grid Lab High Voltage Lab

Follow us:



sutegypt



elsewedy university of  
technology- polytechnic of Egypt



sut.edu.eg

# ELECTRICONIC ENGINEERING TECHNOLOGY TRACK

## Year 1

<b>CET111:</b>	Introduction to Computer and Programming
<b>CET111:</b>	Digital Logic Design
<b>EPT111:</b>	Computer Aided Engineering Drawing
<b>EET111:</b>	Electrical Circuits I
<b>EET121:</b>	Fundamental of Optics
<b>GEN113:</b>	Applied Mathematics I
<b>GEN113:</b>	Applied Mathematics II
<b>HUM111:</b>	English Language I
<b>GEN121:</b>	Physics for Electrical Engineering
<b>HUM121:</b>	Principles of Law, Human Rights & Ethics
<b>HUMUE1:</b>	University Elective I
<b>EET191:</b>	EET Internship I

## Year 2

<b>CET221:</b>	Computer Organization
<b>CET222:</b>	Embedded Systems
<b>EET211:</b>	Electrical Circuits II
<b>EET212:</b>	Signals & Communication Systems Technology
<b>EET231:</b>	Electronics
<b>EET213:</b>	Electric Circuit Design & PCB Manufacturing
<b>EET291:</b>	EET Project I
<b>EET292:</b>	EET Project II
<b>EPT241:</b>	Industrial Control Engineering Technology I
<b>EPT242:</b>	Electrical Machines I
<b>HUM231:</b>	Presentation Skills and Technical Writing
<b>EPT243:</b>	Electrical Power Systems Technology I

## Year 3

<b>EET331:</b>	Digital System Design
<b>EET332:</b>	Integrated Circuits Design
<b>EET333:</b>	Electronic Circuits
<b>EET351:</b>	Digital Signal Processing
<b>EET341:</b>	Electronics Measurements & Instruments
<b>EET352:</b>	Random Signals & Noise
<b>GEN211:</b>	Probability & Statistics
<b>GEN112:</b>	Applied Discrete Mathematics
<b>GEN311:</b>	Applied Mathematics III
<b>HUMUE2:</b>	University Elective II
<b>HUM311:</b>	English Language II
<b>EET391:</b>	EET Internship II

## Year 4

<b>EET3E1:</b>	EET Major Elective I
<b>EET432:</b>	Communication Electronics
<b>EET451:</b>	Information Theory
<b>EET491:</b>	EET Project III
<b>HUM431:</b>	Project Management
<b>EET441:</b>	Microelectronics
<b>EET434:</b>	VLSI Design
<b>EET454:</b>	Adaptive Antennas
<b>EET492:</b>	EET Project IV
<b>EET4E1:</b>	EET Major Elective II

# PROGRAM ELECTIVE Courses

## University Electives I and II

<b>HUM141:</b>	Principles of Economics
<b>HUM131:</b>	Innovation & Entrepreneurship
<b>HUM133:</b>	Communication and Negotiation Skills
<b>HUM132:</b>	Management and Leadership Skills
<b>HUM152:</b>	History of Art & Architecture
<b>HUM151:</b>	History of Engineering & Technology
<b>HUM153:</b>	The Character of Egypt
<b>HUM154:</b>	Arabic
<b>HUM251:</b>	Safety and Risk
<b>HUM114:</b>	Italian Language
<b>HUM113:</b>	German Language

## Major Electives I and II

<b>EET452:</b>	Modulation & Coding
<b>EET453:</b>	Source Coding & Compression
<b>EET433:</b>	Selected Topic in Electronics I
<b>EET421:</b>	Optoelectronics
<b>EET455:</b>	Radar Technology
<b>EET434:</b>	Selected Topic in Electronics II
<b>EET422:</b>	Integrated Optics
<b>EET412:</b>	Detection & Estimation

## Academic Labs

Electronics Circuits Lab  
Electronics Testing & Maintenance Lab  
Microprocessor Lab  
Analog & Digital Communication Lab  
Signals & Images Processing Lab  
Microwave Lab

Follow us:



sutegypt



elsewedy university of  
technology- polytechnic of Egypt



sut.edu.eg