

ELSEWEDY UNIVERSITY OF TECHNOLOGY



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

Esewedy 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.

ENERGY ENGINEERING TECHNOLOGY PROGRAM

As the energy industry evolves to combat climate change and provide low-carbon solutions, the energy program of SU Tech allows students to share the vision and commitment of reducing emissions through the development of novel technologies and science-based analysis. SU Tech students are dedicated to decarbonizing global energy systems, working collaboratively and transparently with industry, government, and civil society.

GRADUATES OF THIS PROGRAM WILL HAVE A CAREER PATH IN →

Industrial Concentrations

- Reservoir Technologist
- Drilling Technologist
- Power Plant Technologist
- Solar PV Technologist
- Wind Turbine Technologist
- Process Technologist
- HVAC Technologist
- Sustainability Technologist
- Design Technologist
- Energy Consultant

EV Concentration

- Electric Vehicle Design Specialist
- Charging Infrastructure Specialist

Smart Buildings and Cities Concentration

- Building Automation Specialist
- Smart Grid Specialist

ELIGIBILITY *To Apply*

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

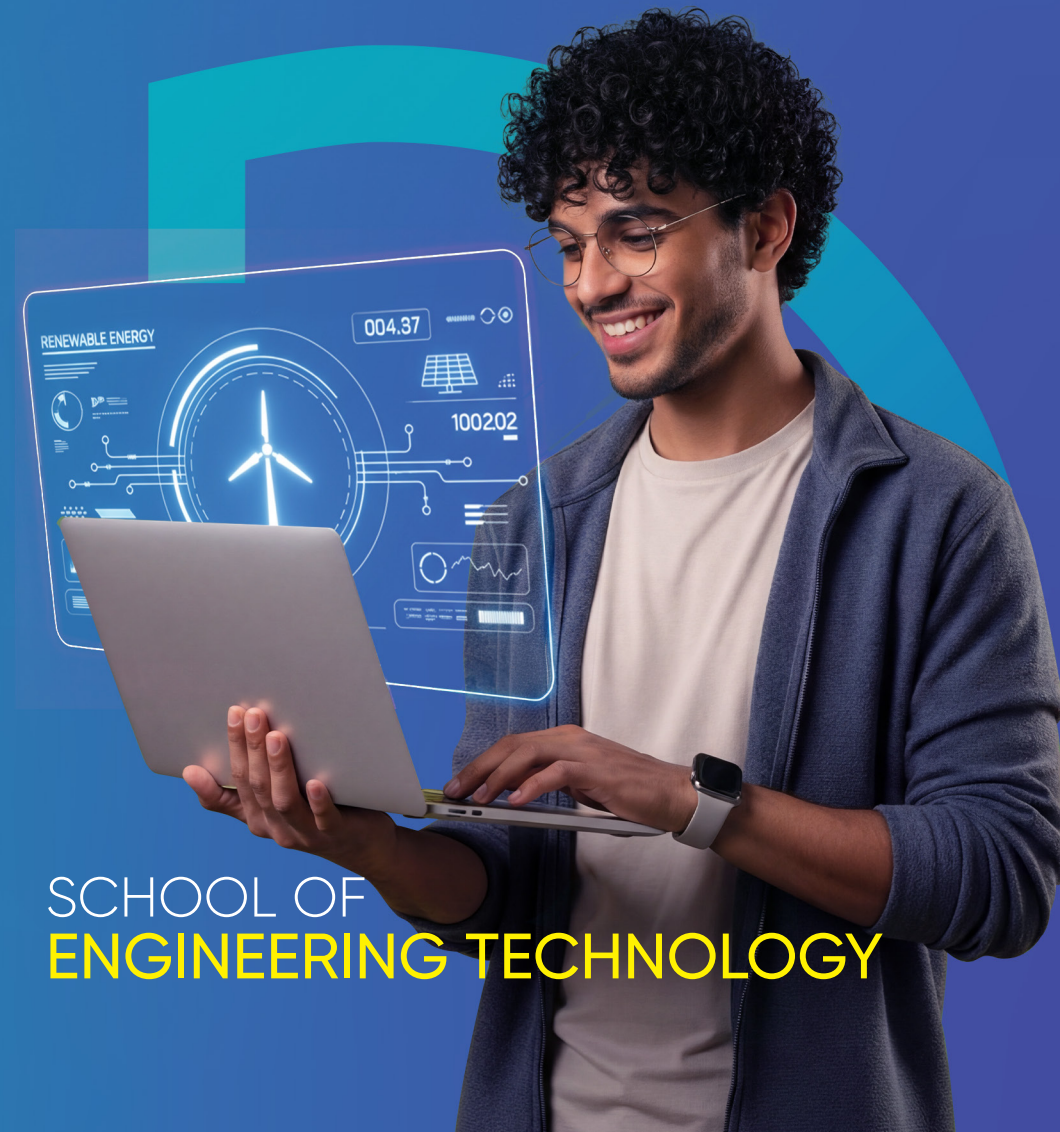
CONTACT US

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KILO 51, CAIRO-ISMALIA
DESERT ROAD

Apply Now



ENERGY ENGINEERING TECHNOLOGY



SCHOOL OF
ENGINEERING TECHNOLOGY

Year 1

| | |
|----------------|---|
| CET111: | Introduction to Computer and Programming |
| EPT111: | Computer-Aided Engineering Drawing |
| GEN111: | Applied Mathematics I |
| GEN131: | Principle of Chemistry & Material Science |
| HUM111: | English Language I |
| ENT111: | Energy, Development, and Environment |
| GEN113: | Applied Mathematics II |
| GEN121: | Physics for Electrical Engineering |
| GEN123: | Heat Transfer and Thermodynamics |
| HUMUE1: | University Elective I |
| ENT191: | ENT Internship I |

Year 3

| | |
|----------------|---|
| EET211: | Electrical Circuits II |
| ENT313: | Fluid Machines |
| ENT314: | Principles of Ecology |
| EPT241: | Industrial Control Engineering Technology I |
| HUM431: | Project Management |

Year 4

ENVIRONMENTAL CONCENTRATION MAJOR

| | |
|-----------------|---|
| ENT431: | Sustainability and the Built Environment |
| ENT432: | Technical Design: Theory and Application |
| ENT433: | Building Physics |
| ENT434: | Building Technical Systems Design and Maintenance |
| ENT491: | ENT Project III |
| ENT435: | Renewable Energy Systems for Building Integration |
| ENT 436: | Energy Efficiency in the Building Sector |
| ENT437: | Energy Diagnosis & Implementation Measures |
| ENT492: | ENT Project IV |
| HUMUE2: | University Elective II |

Year 2

| | |
|----------------|--|
| EET111: | Electrical Circuits I |
| ENT211: | Energy Systems I |
| ENT212: | Thermal Engineering |
| ENT291: | ENT Project I |
| EPT431: | Renewable Energy |
| HUM121: | Principles of Law, Human Rights & Ethics |
| ENT213: | Energy Storage and Transmission |
| ENT292: | ENT Project II |
| GEN211: | Probability & Statistics |
| GEN241: | Engineering Mechanics: Static and Dynamics |
| HUM251: | Safety and risk |

| | |
|----------------|--------------------------------|
| ENT311: | Energy Systems II |
| ENT312: | Innovative Energy Technologies |
| ENT315: | Operation and maintenance |
| ENT316: | Measurements and diagnostics |
| HUM311: | English Language II |
| ENT391: | ENT Internship II |

Year 4

EV Concentration Major

| | |
|----------------|---|
| ENT431: | Sustainability and the Built Environment |
| ENT432: | Technical Design: Theory and Application |
| ENT433: | Building Physics |
| ENT434: | Building Technical Systems Design and Maintenance |
| ENT491: | ENT Project III |
| ENT435: | Renewable Energy Systems for Building Integration |
| ENT461: | Electrical Charges Technology |
| ENT462: | Electric Vehicles Technology |
| ENT492: | ENT Project IV |
| HUMUE2: | University Elective II |

Year 4

Smart Buildings & Cities Concentration Major

| | |
|----------------|---|
| ENT431: | Sustainability and the Built Environment |
| ENT432: | Technical Design: Theory & Application |
| ENT433: | Building Physics |
| ENT434: | Building Technical Systems Design and Maintenance |
| ENT491: | ENT Project III |
| ENT435: | Renewable Energy Systems for Building Integration |
| ENT471: | Smart Buildings and Cities Platforms |
| ENT472: | Light Current and Digital Systems Technologies |
| ENT492: | ENT Project IV |
| HUMUE2: | University Elective II |

Year 4

RENEWABLE ENERGY CONCENTRATION

| | |
|----------------|--|
| ENT421: | Heat & Mass Transfer Equipment I |
| ENT422: | Energy Scenario and Modeling |
| ENT423: | Multiphase Flow |
| ENT424: | Industrial Plants I |
| ENT491: | ENT Project III |
| ENT425: | Sustainable Development & SDGs Interlinkages |
| ENT441: | Solar Energy Technology |
| ENT442: | Wind Energy Technology |
| ENT492: | ENT Project IV |
| HUMUE2: | University Elective II |

PROGRAM ELECTIVE *course*

HUMUE1: University Elective I HUMUE2: University Elective II

| | |
|----------------|-------------------------------------|
| HUM141: | Principles of Economics |
| HUM131: | Innovation & Entrepreneurship |
| HUM133: | Communication & Negotiation Skills |
| HUM132: | Management & Leadership Skills |
| HUM152: | History of Art & Architecture |
| HUM151: | History of Engineering & Technology |
| HUM153: | The Character of Egypt |

Year 4

Industrial Concentration Major

| | |
|-----------------|--|
| ENT421: | Heat & Mass Transfer Equipment I |
| ENT422: | Energy Scenario and Modeling |
| ENT423: | Multiphase Flow |
| ENT424: | Industrial Plants I |
| ENT491: | ENT Project III |
| ENT425: | Sustainable Development & SDGs Interlinkages |
| ENT 426: | HVAC and Cooling Technologies |
| ENT427: | Advanced Heat and Mass Transfer Processes |
| ENT492: | ENT Project IV |
| HUMUE2: | University Elective II |

Year 4

OIL AND GAS CONCENTRATION

| | |
|----------------|---|
| ENT421: | Heat & Mass Transfer Equipment I |
| ENT422: | Energy Scenario and Modelling |
| ENT423: | Multiphase Flow |
| ENT424: | Industrial Plants I |
| ENT491: | ENT Project III |
| ENT425: | Sustainable Development & SDGs Interlinkages |
| ENT451: | Fuel and Energy Transmission |
| ENT452: | Selected Topics In Petroleum & Energy Engineering |
| ENT492: | ENT Project IV |
| HUMUE2: | University Elective II |

| | |
|----------------|------------------|
| HUM154: | Arabic |
| HUM251: | Safety and risk |
| HUM114: | Italian Language |
| HUM113: | German Language |

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