

# ELSEWEDY UNIVERSITY OF TECHNOLOGY



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

Elsowedy 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. SUtech – Polytechnic of Egypt is introducing leading international technologies and standards and preparing the Egyptian youth for leadership roles in the local and global markets.

## **ARTIFICIAL INTELLIGENCE & DATA SCIENCE TECHNOLOGY PROGRAM**

Data drives almost every aspect of our lives, and the demand for people who can gather, analyze, and interpret data has never been higher. The program focuses on the study of scientific methods used to extract knowledge from data. It employs techniques and theories drawn from mathematics, statistics, information sciences, and computer science. SUtech – Polytechnic of Egypt uses state-of-the-art techniques to support data-driven decision-making, making students distinguished for organizations of all types and sizes.

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

- Data Technologist
- Data Architect
- Data Analyst
- Business Analyst
- Business Intelligence Developer
- Machine Learning Engineer
- Marketing Analyst
- Data and Analytics Manager

## **ELIGIBILITY To Apply**

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

## **CONTACT US**

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CALL US ON: 15755  
KILO 51, CAIRO-ISMAILIA  
DESERT ROAD

**Apply Now**



# AI & DATA SCIENCE TECHNOLOGY



SCHOOL OF  
**ENGINEERING TECHNOLOGY**

# AI & DATA SCIENCE TECHNOLOGY

# PROGRAM ELECTIVE Courses

## Year 1

- CET111:** Introduction to Computer and Programming
- EPT111:** Computer Aided Engineering Drawing
- GEN111:** Applied Mathematics I
- HUM111:** English Language I
- HUM121:** Principles of Law, Human Rights & Ethics
- CET112:** Object Oriented Programming
- CET141:** Database Management Systems
- CET161:** Network Basics
- GEN112:** Applied Discrete Mathematics
- GEN122:** Principles of Physics
- HUMUE1:** University Elective I
- CET191:** CET Internship I

## Year 3

- CET213:** Software Engineering
- CET321:** Internet of Things
- CET322:** Cloud Computing
- CET341:** Data Cleansing and Migration
- CET351:** Machine Learning
- HUMUE2:** University Elective II
- CET342:** Data Mining
- CET343:** Big Data Analytics
- CET344:** Algorithms for Data Science
- CET352:** Image Processing and Computer Vision
- HUM311:** English Language II
- CET392:** CET Internship II

## Year 2

- CET211:** Data Structures & Algorithms
- CET212:** Operating Systems
- CET214:** Web Programming
- CET291:** CET Project I
- GEN211:** Probability & Statistics
- HUM231:** Presentation Skills and Technical Writing
- CET216:** Linux and Shell Programming
- CET241:** Cloud Databases
- CET242:** Data Analytics and Visualization
- CET251:** Artificial Intelligence
- CET292:** CET Project II

## Year 4

- CET231:** Cyber & Information Security
- CET3E2:** DS Major Elective I
- CET451:** Neural Networks and Deep Learning
- CET491:** CET Project III
- HUM431:** Project Management
- CET414:** Parallel Programming
- CET452:** Natural Language Processing
- CET453:** Advanced Machine Learning
- CET492:** CET Project IV
- CET4E2:** DS Major Elective II

## University Electives I and II

- HUM141:** Principles of Economics
- HUM131:** Innovation & Entrepreneurship
- HUM133:** Communication and Negotiation Skills
- HUM132:** Management and Leadership Skills
- HUM152:** History of Art & Architecture
- HUM151:** History of Engineering & Technology
- HUM153:** The Character of Egypt
- HUM154:** Arabic
- HUM112:** Safety
- HUM141:** Principles of Economics
- HUM131:** Innovation & Entrepreneurship
- HUM133:** Communication and Negotiation Skills
- HUM132:** Management and Leadership Skills
- HUM152:** History of Art & Architecture
- HUM151:** History of Engineering & Technology
- HUM153:** The Character of Egypt
- HUM154:** Arabic
- HUM112:** Safety

## Major Electives I and II

- CET441:** Business & Social Analytics
- CET413:** Product Management
- CET431:** Software Security
- CET442:** Selected Topic in Data Science I
- CET447:** Advanced Software Engineering
- CET434:** Cloud and IoT Security
- CET443:** Blockchain & Data Science
- CET444:** Selected Topic in Data Science 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