

ENGINEERING TECHNOLOGY ADVANCED - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3523

This program provides students with a fundamental knowledge of the engineering technology field, engineering design, principles of engineering technology and digital electronics. This program develops students' critical thinking skills through application of principles of engineering technology to solve design, manufacturing and automation problems in the field. Students will be able to design, create and innovate products by selecting appropriate materials and tools while applying engineering technology principles for quality products.

Program Student Learning Outcomes

- Apply advanced principles of engineering technology to design problems and constraints.
- Create and design robotic tools using automated equipment.

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
ETEC 10	Introduction to Engineering Technology	2
ETEC 20	Introduction to Engineering and Design	3
ETEC 30	Principles of Engineering Technology	3
ETEC 40	Electronics for Engineering Technology	3
ETEC 60	Material Science for Engineering Tech	3
PHYS 2A	General Physics	4.5
PHYS 2B	General Physics	4.5
MATH 60/60H	First Calculus Course	5
CAD 4	Geometric Dimensioning and Tolerancing	3
CAD 6	Computer Aided Design Advanced	3
Subtotal Units		34
IN ADDITION, complete THREE (3) units from the following:		
CAD 1	Intro Computer Aided Design SolidWorks	3
or CAD 2	Intro to Computer Aided Design AutoCAD	
or CAD 3	Intro to Computer Aided Design CATIA	
Total Units		37