



The **College of Engineering and Technology (CET)** is dedicated to producing competent, innovative, and socially responsible engineers equipped to address the challenges of a rapidly evolving world. The department aims to nurture future leaders in engineering by providing students with a strong foundation in science, mathematics, and engineering principles, complemented by hands-on learning and exposure to cutting-edge technologies. The CET fosters a culture of academic excellence, critical thinking, and ethical responsibility, preparing graduates to contribute meaningfully to society and the global engineering profession. The College of Engineering and Technology empowers students to excel in their chosen fields.

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

PROGRAM CURRICULUM

PROGRAM: *B.S. in ELECTRICAL ENGINEERING*

HEAD/COORDINATOR: ENGR. RICARDO TOLEDO

About:

The Bachelor of Science in Electrical Engineering is a professional undergraduate program that prepares students for careers in the design, development, operation, and maintenance of electrical systems and equipment. This program focuses on the generation, transmission, distribution, and utilization of electrical energy, as well as the design and application of electronic devices, control systems, and communication technologies.

The curriculum provides a strong foundation in mathematics, physics, and engineering principles, along with specialized knowledge in areas such as power systems, electrical machines, electronics, control systems, instrumentation, telecommunications, and renewable energy.

COLLEGE LEVEL: *FIRST YEAR*



SUBJECTS/COURSES	
First Semester	Second Semester
GNED 1005 Reading in Philippine History GNED1004 Science, Technology & Society GNED 1001 Mathematics in the Modern World RELS 1001 Christian Formation EE21 115 Calculus 1 EE21 116 Chemistry for Engineers PHED1001 PATHFit 1: Movement Competency Training NSTP1 Civic and Welfare Training Service 1/NSTP 1 GNED1002 Understanding the Self TOTAL UNITS: 27	RELS 1002 Christian Ethics EE21 122 Computer-aided Drafting EE21 123 Engineering Calculus 2 GNED 1002 Living in the IT Era EE21 125 Computer Programming EE21 126 Physics for Engineers GNED1006 Purposive Communication GNED1012 The Contemporary World NSTP2 Civic and Welfare Training Service 2/NSTP 2 PHED1002 PATHFit 2: Exercise-based Fitness Activities TOTAL UNITS: 26

COLLEGE LEVEL: <i>SECOND YEAR</i>	
SUBJECTS/COURSES	
First Semester	Second Semester
EE21 211 Differential Equations EE212 Electrical Circuits 1 ES 310 Engineering Mechanics GNED1011 Environmental Science GNED 1007 Art Appreciation ENG2203 Engineering Data Analysis PHED1003 PATHFit 3: Physical Activity Towards Health and Fitness 3: Dual Sports and Group Exercise TOTAL UNITS: 21	ENGG2202 Engineering Math for EE EE222 Fundamentals of Deformable Bodies EE223 Electrical Circuits 2 EE224 Electronic Circuits: Devices and Analysis EE225 Basic Thermodynamics GNED 1011 Philippine Pop Culture EE21 2207 Electromagnetics PHED1004 PATHFit4: Physical Activity Towards Health and Fitness 4: Dance and Team Sports TOTAL UNITS: 22

COLLEGE LEVEL: <i>THIRD YEAR</i>	
SUBJECTS/COURSES	



First Semester	Second Semester
EE-18-311 Numerical Methods and Analysis EE21 3102 Logic Circuits and Switching Theory EE21 3103 Engineering Economics EE314 Industrial Electronics EE21 3105 Fundamentals of Electronic Communications EE21 3106 Electrical Machines 1 GNED 1008 Ethics TOTAL UNITS: 20	EE21 3201 Microprocessor Systems EE21 3202 Electrical Apparatus and Devices EE21 3203 Electrical Machines 2 EE21 3204 Basic Occupational Safety and Health EE21 3205 Fluid Mechanics Environmental Science and Engineering EE21 3206 EE Law, Codes and Professional Ethics EE21 3207 EE21 3208 Feedback Control Systems TOTAL UNITS: 20

COLLEGE LEVEL: *THIRD YEAR*

SUBJECTS/COURSES

EE-OJT On-the-Job Training
TOTAL UNITS: 2

COLLEGE LEVEL: *FOURTH YEAR*

SUBJECTS/COURSES

First Semester

Second Semester



EE21 411 Materials Science and Engineering
EE21 412 Electrical Standards and Practices
Electrical Systems & Illumination Engg
EE413 Design
EE21 414 EE Free Elective - 1
EE21 415 Management of Engineering Projects
EE416 Research Methods
EE417 Instrumentation and Control
EE21 418 Technopreneurship

TOTAL UNITS: 20

EE422 Fundamentals of Power Plant Engg
Design
EE423 Distribution Systems & Substation
Design
EE427 EE Free Elective - 2
EE424 Research Project or Capstone Design
Project
EE425 Seminars/Colloquia
GNED1009 Life and Works of Rizal

TOTAL UNITS: 16