



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 INDUSTRIAL ENGINEERING

PROGRAM CURRICULUM

PROGRAM: *B.S. in INDUSTRIAL ENGINEERING*

HEAD/COORDINATOR: **ENGR. ROMMEL TRINIDAD**

About: *The Bachelor of Science in Industrial Engineering is a professional undergraduate program that focuses on designing, improving, and optimizing systems, processes, and organizations. Industrial engineers aim to enhance efficiency, productivity, quality, and sustainability while minimizing costs and waste.*

This program combines principles of mathematics, engineering, management, and social sciences to equip students with skills in systems thinking, problem-solving, and decision-making. Key areas of study include operations research, production planning, quality control, supply chain management, ergonomics, systems design, and process improvement.

COLLEGE LEVEL: *FIRST YEAR*



SUBJECTS/COURSES	
First Semester	Second Semester
GNED1005 Reading in Philippine History 3	IE-23-121 Calculus 2
GNED1004 Science, Technology & Society	IE-23-122 Physics for Engineers
GNED1001 Mathematics in the Modern World	IE-23-123 Statistical Analysis for Industrial Engineering 1
RELS1001 Christian Formation	IE-23-124 Computer-Aided Drafting
IE-23-114 Engineering Calculus 1	IE-23-125 Principles of Economics
IE-23-115 Chemistry for Engineers	IE-23-126 Financial Accounting
PHED1001 PATHFit 1: Movement Competency Training	PHED1002 PATHFit 2: Exercise-based Fitness Activities
CWTS 1001 Civic and Welfare Training Service 1/NSTP 1	RELS 1002 Christian Ethics
GNED1002 Understanding the Self	NSTP 2 Civic and Welfare Training Service 2/NSTP 2
TOTAL UNITS: 27	IE-23-1210 Computer Fundamentals and Programming
	TOTAL UNITS: 27

COLLEGE LEVEL: SECOND YEAR	
SUBJECTS/COURSES	
First Semester	Second Semester
IE-23-211 Differential Equations	IE-23-221 Advance Mathematics for Industrial Engineering
IE-23-212 Engineering Mechanics	IE-23-222 Work Study and Measurement
IE-23-213 Industrial Materials and Processes	IE-23-126 Engineering Economics
IE-23-214 Industrial Organization and Management	GNED1003 The Contemporary World
IE-23-215 Statistical Analysis for Industrial Engineering 2	GNED 1002 Living in the IT Era
PHED1003 PATHFit 3: Physical Activity Towards Health and Fitness 3: Dual Sports and Group Exercise	PHED1004 PATHFit4: Physical Activity Towards Health and Fitness 4: Dance and Team Sports
GNED1006 Purposive Communication	
TOTAL UNITS: 20	TOTAL UNITS: 18



COLLEGE LEVEL: *THIRD YEAR*

SUBJECTS/COURSES

First Semester

IE-23-311 Operations Research 1
IE-23-312 Quality Management Systems
IE-23-313 Ergonomics 1
IE-23-314 Thermodynamics
IE-23-315 Managerial Accounting
IE-23-316 Basic Occupational Safety and Health
IE-23-317 GEC Elective 3

TOTAL UNITS: 21

Second Semester

IE-23-321 Operations Research 2
IE-23-322 Operations Management
IE-23-323 Ergonomics 2
GNED1008 Ethics
GNED 1011 Philippine Pop Culture
GNED1009 Life and Works of Rizal

TOTAL UNITS: 19

COLLEGE LEVEL: *SUMMER*

SUBJECTS/COURSES

IE-OJT IE Industry Immersion

TOTAL UNITS: 2

COLLEGE LEVEL: *FOURTH YEAR*



SUBJECTS/COURSES	
First Semester	Second Semester
IE-23-411 Project Feasibility	IE-23-421 IE Capstone Project
IE-23-412 Supply Chain Management	IE-23-422 IE Elective 1
IE-23-413 Information Systems	IE-23-423 IE Elective 2
IE-23-414 Systems Engineering	IE-23-424 IE Elective 3
IE-23-415 Elementary Electrical Engineering	IE-23-425 Technopreneurship
GNED1011 Environmental Science	GNED1006 Art Appreciation
TOTAL UNITS: 18	TOTAL UNITS: 18