



FEU CAVITE
Basic Education Department

Engineering, Architecture, and Technology/IT (EAIT)

**SENIOR HIGH SCHOOL
SY 2026-2027**



Engineering, Architecture, and Technology/IT (EAIT)

I. Pathway Overview Description

The Engineering, Architecture, and Technology/IT (EAIT) Career Pathway prepares students for careers in engineering, architecture, information technology, and emerging technology-driven industries through a strong foundation in mathematics, physics, design, and computational thinking. Learners develop analytical reasoning, problem-solving skills, and technical competencies essential for designing, building, and managing systems that respond to real-world challenges in infrastructure, digital environments, and technological innovation.

The curriculum integrates theoretical knowledge with practical applications through design projects, simulations, coding activities, and research-based tasks under the ACTIVE Way of Learning. Students are exposed to areas such as engineering design, architectural concepts, and information systems, enabling them to create solutions that are functional, sustainable, and responsive to societal needs. The pathway also promotes ethical responsibility and uprightness in the use of technology, preparing students for higher education and professional careers in engineering, architecture, and IT-related fields.

II. Pathway Objectives

This pathway aims to:

1. Develop foundational knowledge in mathematics, physics, engineering, and information technology.
2. Build competence in analytical thinking and problem-solving for technical and design challenges.
3. Enhance skills in design processes, computational thinking, and technological applications.
4. Apply research methods in addressing engineering and technology-related problems
5. Promote responsible, ethical, and upright use of technology and innovation
6. Prepare students for transition to tertiary programs in engineering, architecture, and the IT field.



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III. Pathway Outcomes

Upon completion of this pathway, students shall be able to:

1. Explain fundamental concepts in mathematics, physics, and engineering principles
2. Apply design thinking in developing engineering and technological solutions
3. Utilize computational tools and programming concepts in problem-solving
4. Conduct basic technical and scientific investigations using appropriate methodologies
5. Analyze data and systems relevant to engineering and IT applications
6. Create models, prototypes, or digital outputs that address real-world needs
7. Demonstrate technical skills in the use of tools, software, and technologies
8. Communicate technical ideas and solutions effectively
9. Exhibit ethical behavior, professionalism, and uprightness in technological practice

IV. College Programs & Career Opportunities

This pathway prepares students for:

- Bachelor of Science in Accountancy
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Information Technology
- Bachelor of Science in Computer Science
- Bachelor of Science in Architecture
- Bachelor of Science in Information Systems

V. Aligned Programs in FEU Cavite Higher Education Department

- Bachelor of Science in Information Technology

VI. SAMPLE CURRICULUM (might be improved and changed before the opening of classes of SY 2026-2027)

Grade 11	
1 st Semester	2 nd Semester
Effective Communication/ Mabisang Komunikasyon	
General Mathematics	
Pag-aaral ng Kasaysayan at Lipunang Pilipino	
Life and Career Skills	
General Science	
Finite Math 1	Finite Math 2
Physics 1	Physics 2

Grade 12		
1 st Term	2 nd Term	3 rd Term
Citizenship and Civic Engagement (with MAIL)	Fundamentals of Data Analytics with Database Management	Work Immersion (360 hours)
Pre-Calculus	Design and Innovation	
Physics 3	Physics 4	
Research 1	Research 2	

VII. CONTACT DETAILS

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