Paper and Poster Presentations
Faculty members and students consistently present papers and posters, both locally and abroad, and publish papers in different journals and publications.

Board Exam Performance
The department has consistently produced quality graduates with high passing rate in board examination through the years.

Facilities
The department is fully equipped with trainers, facilities, and laboratories that help the students apply learned theories in real-life setting.

Accreditations
Center of Development by the Commission on Higher Education (CHED)
PAASCU Accredited Level III
Philippine Technological Council

Affiliations
The department is affiliated and actively involved with the following institutions or organizations:

IEEE
CISCO

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Program History

The Faculty of Engineering of the University of Santo Tomas opened the BS Electronics Engineering (BS EIE) program in 1960 and evolved to become BS Electronics and Communications Engineering (BS ECE) in the year 1974. In 2008, the official name of the program was changed back to BS Electronics Engineering (BS ECE) in compliance with Republic Act 9292 Electronics Engineering Law of 2004.

Throughout five decades or so, the BS ECE program under the Department of Electronics Engineering has been acknowledged by various agencies and organizations. In the years 1999 and 2009, the BS ECE program was awarded Center of Excellence (COE) and Center of Development respectively by the Commission on Higher Education (CHED) in the Philippines. The program has also earned Level I, II and III accreditation from the Philippine Accreditation Association of Schools, Colleges and Universities (PAASCU) in the years 2003, 2005 and 2015 respectively. Furthermore, the Philippine Technological Council (PTC), a provisional signatory of the Washington Accord, awarded a two-year accreditation to the BSEE program.

Program Description

The BS ECE Program offers a curriculum that molds the students to have wide and deep knowledge of various engineering topics related to the field of electronics engineering. The curriculum consists of courses that can be categorized into three curricular areas: Math & Basic Sciences, Electronics Engineering Topics, and General Education.

To meet the Outcomes-Based Education (OBE) standards, each course in the curriculum is designed according to the Program Educational Objectives (PEO) and Student Outcomes (SO) of the BS ECE program. The PEOs define what graduates must be able to attain while the SOs refer to what students are expected to know and are able to do by the time of graduation.

Program Educational Objectives

Within five years after graduation, Bachelor of Science in Electronics Engineering alumni from the University of Santo Tomas shall be engaged either locally or abroad in the design, operation, or management in the fields of electronics, communications and computer, or pursuing teaching, research, technical sales or entrepreneurship after having completed advanced studies or special training. Furthermore, they shall be expected to imbibe the Thomasian traits of contemplative and critical thinking, exemplary work ethic, and a commitment to improve society and to lifelong learning.

Student Outcomes

a-K1: An ability to apply knowledge of mathematics and science appropriately to solve electronics engineering problems.

b-D1: An ability to design and conduct experiments, as well as to analyze and interpret data accordingly.
c-D2: An ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability, in accordance with standards.
d-P1: An ability to function effectively in multi-disciplinary teams.
e-D3: An ability to identify, formulate, and solve electronics engineering problems correctly.
f-K2: An understanding of professional and ethical responsibility.
g-P2: An ability for effective written, visual, and oral communication.
h-K3: The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
i-P3: The recognition of the need for, and an ability to engage in life-long learning.
j-P4: An active concern for contemporary local and global issues.
k-P5: An ability to use techniques, skills, and modern engineering tools necessary for the practice of electronics engineering.
l-K4: The knowledge and understanding of engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments.
m-KS: The specialized knowledge in at least one field of Engineering practice, and the ability to apply such knowledge to provide solutions to actual problems.

Career Opportunities

The BS ECE graduates are equipped with the right knowledge and skills that would lead them to any but not limited to the following careers:

- Product or Test Engineer in a Semiconductor Industry
- Researcher in an Electronics or Communications Industry
- Computer Networking Professional
- Network Associate
- Engineer in the Maritime Services
- Telecommunications Specialist
- Engineer in the Aeronautical Services
- Academician/Researcher

Internationalization

The ECE Department has partnership in several universities abroad which includes The Hong Kong University of Science and Technology (HKUST), Chulalongkorn University, National Taiwan University (NTU), National Taiwan University of Science and Technology (NTUST), Hong Kong Polytechnic University (HK PolyU), Chung Yuan Christian University (CYCU), and Thammasat University.

Representative students from the department are sent to different universities abroad for summer camps and research internship. Educational tours also allow the students to be exposed beyond the borders of the archipelago and know the existing technologies abroad.

Information Sessions are also held locally wherein professors from international universities visit the department to give a brief background of their institution.