

THE MINISTRY OF EDUCATION AND TRAINING  
HCMC UNIVERSITY OF TECHNOLOGY AND EDUCATION  
FACULTY OF ELECTRICAL AND ELECTRONICS ENGINEERING

**UNDERGRADUATE PROGRAMME**

BACHELOR OF  
**ELECTRONICS AND COMMUNICATION  
ENGINEERING TECHNOLOGY**  
(52510302)

JANUARY - 2016

**UNDERGRADUATE PROGRAMME**  
**(Full-time Curriculum)**

**Programme:** Electronics and Communication Engineering Technology

**Level:** Undergraduate

**Major:** Electronics and communication engineering technology

**Programme duration:** 4 years

*(Decision No.....date... on.....)*

**1- Enrollment, Grading System, Curriculum and Graduation Requirements**

- *Enrollment:* High-school Graduates
- *Grading system:* 10
- *Curriculum and Graduation Requirements:* Based on regulations of Decision No 43/2007/BGDDT

**2- The Goals, Objectives, and Expected Learning Outcomes**

**Goals:**

The programme is designed to prepare graduates to assume engineering and technology positions in the electronics and communications industry. Graduates of Electronics and Communications Engineering Technology (ECET) program have an ability to demonstrate expertise and career advancement in Electronics and Communications field through the application of fundamental knowledge, skills, and engineering technology tools. They also have potential to contribute significantly to the achievement of their organization's goals as an effective member and an ability to take part in life-long learning by being engaged with civic institutions, educational organizations, and professional societies.

**Objectives:**

PEO-01	Excel in their engineering careers and/or postgraduate education by utilizing the fundamental mathematical, scientific, and engineering technology principles in formulating and solving electronics and communication engineering problems
PEO-02	Communicate and work effectively in multidisciplinary teams and continue career-long professional development through engagement in lifelong learning
PEO-03	Fulfill the needs of society in solving technical problems using engineering principles, tools and practices, in an ethical and professional manner
PEO-04	Make technical contributions to design, development, and manufacturing in their practice of electronics and communication engineering technology

**Expected Learning Outcomes:**

ELO-01	An ability to apply knowledge of mathematics, science, computer fundamentals, and engineering
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ELO-02	An ability to identify, formulate and solve engineering problems and to design a system, component, or process to meet desired needs
ELO-03	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
ELO-04	An ability to apply written, oral, and graphical communication in both technical and non-technical environments
ELO-05	An ability to communicate in English
ELO-06	An ability to work effectively as a member and leader in teams, preferably in a multi-disciplinary setting
ELO-07	A recognition of the need for continuous learning, and an ability to engage in life-long learning
ELO-08	An ability to understand the tenants of professional codes of ethics and to apply ethical considerations to realistic problems
ELO-09	Recognize the importance of the global, economic, environmental and societal context in engineering practice
ELO-10	An ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments related to electronics and communication engineering technology
ELO-11	Demonstrate the application of circuit analysis and design, computer programming, associated software, analog and digital electronics, and microcomputers, and engineering technology standards to the building, testing, operation, and maintenance of electronics/ communication systems