

**PROGRAMME LEARNING OUTCOMES (PLOs)
OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING
TECHNOLOGY EDUCATION PROGRAMME**

*Decision No 69/QĐ-ĐHCNTT&TT dated on February 10th, 2020 by the Rector
of TNU - University of Information and Communication Technology*

Vietnamese name of the programme: *Công nghệ kỹ thuật điện tử - viễn thông*

English name of the programme: *Electronics and Telecommunications Engineering
Technology*

Academic level:

- Bachelor's degree (141 credits)
- Engineer's degree (151 credits)

Academic Schedule: 4,5 years

I. TRAINING OBJECTIVES

1.1. General objectives

Training bachelors/engineers in Electronics and Telecommunications Engineering Technology with professional qualifications, solid political qualities, a sense of discipline, and professional ethics; graduates can independently solve technical problems, have solid professional knowledge in the design, construction, operation, and exploitation of telecommunications systems, electronic and telecommunications equipment; develop research in the field of Electronics and Telecommunications, meeting the needs of society.

1.2. Detail objectives

By the end of the course, graduates have the knowledge, skills, and qualities:

- Have basic and intensive knowledge of electronic circuits and components to design, simulate, and assemble electronic circuits; Proficiently apply primary programming languages and simulation tools in electronic and telecommunications systems; Understand the processes of operation, exploitation, troubleshooting, and administration of electronics and telecommunications systems.
- Have good health, ensure the ability to work with high intensity;
- Have full knowledge of politics, security, and defense, law as required by the Ministry of Education & Training;
- Have the ability to use foreign languages for work;
- Have the necessary soft skills for the job.

II. PROGRAM LEARNING OUTCOMES

Notation	PLOs of SE programme
<i>L1</i>	Apply knowledge of math and physics in order to solve scientific and technical problems in Electronics and Telecommunication Engineering Technology
<i>L2</i>	Understand general educational knowledge on Theory of Marxism-Leninism and Ho Chi Minh Thought, the revolutionary line of the Communist Party of Vietnam, the Party's policy and the State's laws, and national security.
<i>L3</i>	Approach foreign language ability (English), level 3/6 of Vietnam's Foreign Language Competency Framework; specialized English skills.
<i>L4</i>	Obtain one of the following certificates: IC3, MOS, ICDL, Certificate of Information Technology Application (according to Circular 03/2014/TT – BTTTT of the Ministry of Information and Communications), or equivalent certificate.
<i>L5</i>	Have independent work and teamwork skills; report writing and presentation skills on technical issues; autonomy and self-responsibility.
<i>L6</i>	Have knowledge of professional responsibilities and professional ethics
<i>L7</i>	Have the ability to lead professionally; be creative in the working process; have the ability to self-study, accumulate knowledge and experience to improve professional qualifications; and plan, coordinate, and promote collective intelligence.
<i>L8</i>	Master the basic knowledge of electronic circuits, electronic components; applied to survey, analyze, design, simulate and assemble electronic circuits.
<i>L9</i>	Mastering knowledge of signal processing, transmission, and measurement in electronic and telecommunications systems.
<i>L10</i>	Proficient in basic programming languages in electronic and telecommunications systems
<i>L11</i>	Explain the processes of operation, exploitation, troubleshooting, and administration of telecommunications systems.
<i>L12</i>	Design, simulation, construction, and installation of telecommunication systems in practice
<i>L13</i>	Developing and improving technology and techniques to enhance the operational efficiency of telecommunications networks.
<i>L14</i>	Planning to implement projects on electronics and telecommunications, developing value-added service systems in the field of electronics and telecommunications.
<i>L15</i>	Apply new technologies in the development of advanced electronic and telecommunications systems.

III. WORKING POSITION AFTER GRADUATION

Job positions:

- Managers, operators, and technicians at agencies and enterprises in the field of electronics and telecommunications;
- Engineers working at telecommunications service operators, domestic and foreign telecommunications service providers;

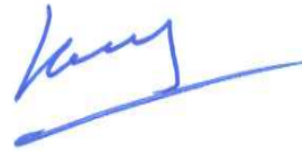
- Technicians at telecommunications centers, post offices, and broadcasting stations;
- Technical specialists in companies, factories, and industrial parks in the field of electronics and telecommunications;
- Consultant on equipment sales in electronic and telecommunications systems;
- Researchers and lecturers at research and training centers.

VICE RECTOR



Ph.D Vu Duc Thai

HEAD OF ECT FACULTY



Ph.D Vu Chien Thang