HCMUS
Viet Nam National University Ho Chi Minh City

VNUHCM-University of Science
Faculty of Physics and Engineering Physics
Electronic Physics Technology and Informatics

INTRODUCTION

Electronic Physics Technology and Informatics (EPTI) is an interdisciplinary science combining physics, electronics and computer sciences. Learners are trained in basic science, physics, electronics, software, computer algorithms, etc. to apply to manufacturing semiconductor electronic components and designing electrical systems. Application electronics, development of application software and computational science on computers through connection, operation and data communication mechanisms.

TRAINING AND RESEARCH

Semiconductor Technology

Focuses on optical, mechanical, and thermal properties of solids, crystal physics, and manufacturing techniques. It also covers simulation, computational optics, plasma physics, and material science.
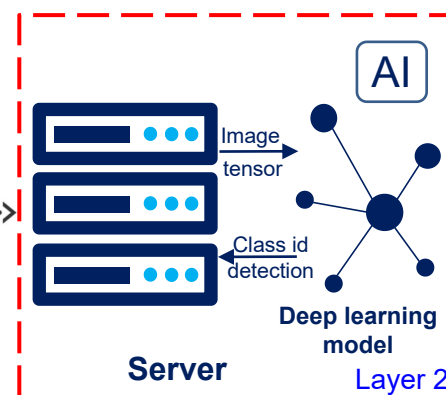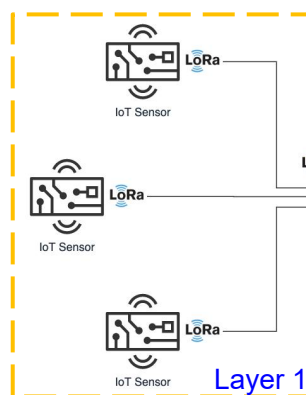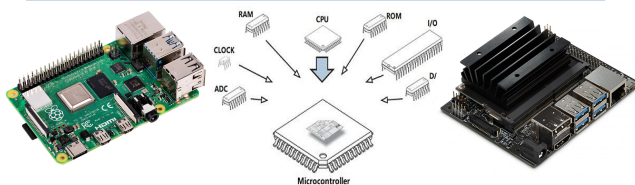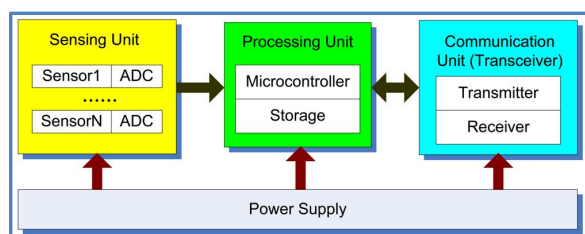
Covers integrated circuit design, embedded systems, wireless sensor networks, PLC programming, robotics, and biomedical electronics.

Electronics Engineering

Computational Science

Includes Java programming, computer networks, mobile programming, image processing, Artificial Intelligence (AI), big data, web programming, and neural networks.

Career Opportunities

Graduates can work in areas like:

• Semiconductor Manufacturing

• System Design & Automation

• Embedded Systems & Robotics

• Signal Processing & Measurement

• Software, Web, and Mobile Development

• Internet of Things (IoT)

• Scientific & Interdisciplinary Computing

Industry Partners & Employers

Viettel, VNPT, Samsung, LG, Intel, Microsoft, IBM, Google, Toshiba, Canon, FPT, Bosch, Renesas, TMA, Faraday, ...