



Faculty of Physics and Engineering Physics

As one of the oldest faculties, instituted when the Institute of Indochina University - Saigon University of Science was established in 1941. The faculty has trained many talents for the country in many fields.



Viet Nam National University HCMC
University of Science

FACULTY OF PHYSICS AND ENGINEERING PHYSICS

Career opportunities

Graduates can work in the following areas:

- Electronic companies, telecommunications companies, semiconductor companies, software companies, power companies, etc.
- Hospitals, nuclear application agencies.
- Research institutes, finance companies - banks, securities companies, etc.
- Specialized research institutes and centers.
- Departments of Science and Technology, Department of Natural Resources and Environment.
- Teaching at higher education institutions, high schools.
- Many opportunities to study abroad for master's, doctorate, Double/Joint degrees with foreign universities.

Scholarships

- Opportunity to receive scholarships to study in the US, Europe, Australia, Japan, Korea, Taiwan, etc.
- Valuable scholarships from alumni and enterprises every year.
- Encouragement scholarships for students having good grades or above.



Academic staff



Prof



Assoc. Prof



Dr



MSc

Laboratories

- Specialized laboratories of each department
- Nuclear Engineering Laboratory
- High Technical Materials Laboratory

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<https://phys.hcmus.edu.vn/>





NEW

Electronic Physics Technology and Informatics Discipline code: 7440107

Admission target 50

General admission for physics discipline (discipline code: 7440102), after being admitted to the Physics discipline and fulfilling enrollment procedures, the faculty will announce to students about the admission consideration for Electronic Physics Technology and Informatics (discipline code 7440107)

Selection combination: A00, A01, A02, D90

- Semiconductor fabrication technology: fabrication of thin films and electronic nanomaterials; energy conversion materials; semiconductor optoelectronics; sensor manufacturing technology
- Applied electronic technology: biomedical electronics; semiconductor electronic circuit design; Micro-electromechanical systems (MEMS);
- Computer technology and computer science: modelling and simulation; app & web development; embedded systems, Internet of Things (IoT); machine learning and AI, data science for interdisciplinary subjects.

Medical Physics Discipline code: 7520403

Admission target 40

Selection combination: A00, A01, A02, D90

Application of modern physical technology and techniques in disease diagnosis and treatment, especially in cancer treatment. Graduates of BSc in Medical Physics are equipped with the knowledge and skills to fulfil tasks at the hospital such as testing and calibrating medical equipment, calculating radiation doses and planning treatment in radiotherapy engineering, ensuring radiation safety.

Training discipline

Physics Discipline code: 7440102

Admission target 200

(Sau enrolling on the physics discipline, the faculty will announce to students about the admission consideration for the bachelor's honor programme: with a target of 30

Selection combination: A00, A01, A02, D90

01 Physics and Computer Science

Mobile programming, web design, digital image processing, signal processing, artificial intelligence, machine learning, embedded programming, and computer network.

02 Physics and Electronic Engineering

Embedded system design, IoT, microelectronics, microcontrollers, automation, and robotics

03 Nuclear Physics

Nuclear theory research, application of nuclear physics in industry, agriculture, environment, medical treatment and diagnosis

04 Theoretical Physics

Theoretical physics Study the electronic interactions, the quantum properties of microscopic particles, as well as the macroscopic phenomena in the universe

05 Applied Physics

Researching on lasers, nanotechnology materials, and photonics devices: Solar cells, LEDs, sensors

06 Solid State Physic

Materials Technology - self-cleaning applications, nanostructured electrodes, component technology - gas sensors, semiconductor components.

07 Geophysics

Lithosphere structure, tectonics, Ground penetrating radar, earthquake, tsunami, oil and gas exploration

Nuclear engineering Discipline code: 7520402

Admission target 50

Selection combination: A00, A01, A02, D90

- Calculating and determining radiation dose in medicine, processing medical images for diagnosis and treatment.
- Nuclear engineering, research on reactors and nuclear power plants, nuclear applications in industry, agriculture and the environment, elemental analysis in victuals and other samples

Oceanology Discipline code: 7440228

Admission target 50

Selection combination: A00, A01, B00, D07

- Oceanology: hydrodynamic study of waves, currents, and sediment transport in the mangrove forest.
- Meteorology: forecast landslides, floods due to rain in mountainous areas, high tides
- Hydrology: Simulation and prediction of water flow problems

