Our Graduates is expected to have the versatility and quick adaptability to learn and to contribute solving various challenges in a more specific problem/field of engineering depending on his/her further interest.

Contacts

Engineering Physics Department
Faculty of Industrial Technology
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MULTI-SCALE
SCIENCE AND
TECHNOLOGY

INTERNATIONAL PROGRAM IN

ENGINEERING PHYSICS

IN COLLABORATION WITH
THE HONG KONG POLYTECHNIC UNIVERSITY

What is Engineering Physics ?

Engineering Physics combines concepts from physics, engineering, and math in an attempt to bridge the gap between theoretical science and practical engineering. Engineering physicists often specialize in frontier areas of engineering that revolve around research, development, design, and analysis namely in fields of nanotechnology, quantum devices, telecommunications, biomedical engineering, computer simulation of physical systems, energy systems, micro-mechanical systems, and molecular electronics. With an Engineering Physics degree, graduates will develop sufficient engineering and physics skills to help solve complex problems in our rapidly changing high-tech world. In addition to being qualified for positions both in high-tech startup companies and established engineering firms, graduates are also exceptionally prepared to pursue further advanced graduate studies in either engineering or physics.

Course Program

YEAR 1: BASIC SCIENCES TPB

Enhance your basic science and engineering skills: Mathematics, Basic Physics, Chemistry, Information technology and introduction to Engineering Sciences and design.

YEAR 2: FUNDAMENTAL ENGINEERING SCIENCES

Enrich your knowledge through learning many fundamenal engineering sciences course: Engineering Mathematics, Mechanical, Electrical- related courses and topics on applied physics.

YEAR 3: MASTERING MULTIPHYSICAL APPROACH IN ENGINEERING METHODS

Learn the basic of state-of-the-art multi-scale and multi-physics approach to solve various engineering problems.

YEAR 4: ENGINEERING PRACTICES & INTERNATIONAL EXPOSURE

Practicing your engineering skills to solve real, frontier engineering problems through projects and research activities. International exposure through exchange activity at our foreign universities partner.

Admission

Bachelor of Engineering Physics is applicable for both Indonesian and Non-Indonesian passport holder.

Requirements:

> Good English language skills:
TOEFL iBT (min. 61), or IELTS (min. 5.5)

> Has one of the International educational qualification certificates as follow:
General SAT or TB Academic Qualification Test (ITB AQ Test)-held by ITB.

> Good academic ability proven by high school academic transcript.

Every admission process must follow the procedure and requirements of selection system carried out by ITB.

For more details, please refer to
https://admission.itb.ac.id/home/international/undergraduate

Commencement

Commencement	Length Of Study	Total Credits
August Every Year	**4-Year Program:** 3-Year in ITB plus 1 Year in partner university	**144** Credit-Hours

Double Degree

2025 ranking

#57 QS World Rank
#72 QS WUR by subject Applied Physics
#84 Times Higher Education

Dept. Applied Physics at The Hong Kong Polytechnic University

Bachelor of Science (Honors) in Physics

with a Secondary Major selection in
- **Artificial Intelligence & Data Analytics (AIDA)**
- **Innovation and Entrepreneurship (IE)**

Potential Engineering Physics related fields:
- Energy Materials and Devices
- Nanomaterials
- Photonics, Plasmonics, and Optoelectronics: Materials and Devices
- Smart Materials and Devices
- Theoretical and Computational Physics

Facts

Strong Academic & Research Culture

est. 1950 Engineering Physics has strong partnertship with numerous domestic and foreign univeristies, research institutes and industries.

Internationally Accredited

Engineering Physics Program holds an international accreditation from ABET since 2011.

Academic Staff

90%	Holds a Ph.D. degree from many different area of experties in Engineering and Applied Sciences.
82%	Of staffs graduated from high-rank universities abroad.