



## > 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 fundamental 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. Every admission process must follow the procedure in [www.usm.itb.ac.id](http://www.usm.itb.ac.id).

### 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 ITB Academic Qualification Test (ITB AQ Test)—held by ITB.
- Good academic ability proven by high school academic transcript.



## Multi-Scale Science and Technology International Program in Engineering Physics

### "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.

## > Partners

We have academic partnership program with Osaka University and The University of Tsukuba in Japan also The University of Queensland, Australia.

We are also initiating more partnership with many universities in Asia, Europe and America.

## > Facts



### Strong Academic & Research Culture

est. 1953, Engineering Physics has strong partnership with numerous domestic and foreign universities, research institutes and industries.



### Internationally Accredited

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



## > Academic Staff

**88%** holds a Ph.D. degree from many different area of expertise in Engineering and Applied Sciences.

**80%** of staffs graduated from high-rank universities abroad.



## > Tuition & Commencement

Citizenship	Tuition Fee	Institutional Development (after admission)	Admission Fee (after admission)
Indonesian Nationals (WNI)	IDR 30,000,000	IDR 60,000,000	-
Foreign Nationals	IDR 42,000,000	IDR 84,000,000	IDR 22,500,000

\*) tuition fee do not cover travel expenses, living costs and foreign university's educational fee

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

## > Contacts

Engineering Physics Department, Faculty of Industrial Technology,  
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