

# INTERNATIONAL UNDERGRADUATE PROGRAM GEODESY AND GEOMATICS ENGINEERING

*A Global Journey in Geodesy and Geomatics, Unlocking Opportunities Worldwide*



The International Undergraduate Program in Geodesy and Geomatics Engineering provides an English-taught, international-standard education for future geospatial professionals. Open to Indonesian and international students, it includes a compulsory exchange semester at ITB partner universities abroad for global exposure and networking.



## What You'll Learn in Geodesy and Geomatics

- Satellite geodesy using satellites and GNSS for precise Earth measurement
- Surveying precise positioning and mapping for land and infrastructure
- Cadastre land registration, property boundaries, and land management
- Remote sensing analysing satellite imagery to monitor Earth's surface
- GIS managing spatial data for better decisions
- Hydrography mapping rivers, coasts, and seabeds
- Field courses hands-on surveying, mapping, and hydrographic practice



## Why Choose the International Class in Geodesy and Geomatics at ITB?

### 1. International Exposure

Opportunities for outbound exchanges, joint supervision, and engagement with visiting professors to enhance your global perspective.

### 2. Integrated Bachelor-Master Program (IBMP)

A streamlined pathway allowing high-achieving students to continue directly into a master's program in an accelerated timeframe.





# International Collaborations and Partnerships

## Collaborative Networks

- ASEAN – European Academic University Network (ASEA-UNINET)
- Asian International Mobility for Students (AIMS)

## Partnerships with Prestigious Universities:

Technische Universität München, Germany  
Universiti Teknologi Malaysia (UTM), Malaysia  
Universitas of Philippines Diliman, Philippines  
Óbuda University, Hungary  
Henan Polytechnic University, China  
Technische Universität Hamburg, Germany  
HafenCity University, Germany

## Career Prospect

- Oil, Gas, and Energy sectors
- Remote Sensing & Satellite Data Industry
- Technology & Data Industry
- Infrastructure & Construction
- Environmental Management
- Land Administration & Surveying Services
- Urban and Regional Planning Agencies
- Disaster Management and Humanitarian Organizations
- Mining and Georesources Industry



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the Earth,  
Shaping  
the Future!**

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