



# GEO MATICS ENGINEERING

GEOMATIK

## DEPARTMENT OF GEOMATICS ENGINEERING - ITS

### OVERVIEW

Department of Geomatics Engineering is part of Institut Teknologi Sepuluh Nopember, one of the best State Engineering Campuses in Indonesia. The department offers undergraduate programs in regular and international settings, and master's and doctoral programs.

The Geomatics Engineering Department offers the education needed to meet the challenges of the rapid development of industrial technology.

Combining science and engineering, Geomatics Engineering students are ready to contribute to global development in various disciplines.

Geomatics Engineering studies the collection, analysis, management, and visualization of Geospatial Information based on CREATIVITY, INTELLECTUAL, MANAGERIAL, STRATEGY, AND CURRENT TECHNOLOGY.



## VISION

Become an international education program in the utilization and development of science and survey mapping technology to support geospatial information industry and natural resources management with an environmental perspective

## MISSION

Organizing the education, research, and community service (Tridharma Perguruan Tinggi) that leads to an international level and develops science and technology in surveying, terrestrial mapping, geodesy, hydrography, land, remote sensing, and geographic information systems, especially to support the fields of marine, settlements, and energy with an environmental perspective.

## OBJECTIVES

1. To develop students become Bachelors of Geomatics Engineering who have academic and professional skills in the application and development of science and technology in geospatial information management field.
2. To create proficient and skilled bachelor of Geomatics Engineering in mastership of surveying and mapping technology based on geospatial information technology in order to support development in information and globalization era.
3. To develop and disseminate sciences and technology in geospatial information management field and to use it for the people welfare in order to enrich the national culture.
4. To produce graduates whom able to develop themselves and their career as professionals, bureaucrats, and entrepreneur.

## LECTURERS & STAFF

Department of Geomatics Engineering has 25 professional lecturers who master their fields of expertise in:

- Surveying & Cadastral
- Geospatial
- GeoMarine
- Geodesy & Geodynamics
- Geoinformatics

In addition, Department of Geomatics Engineering also has 11 staff who support the department's administrative activities and office supports.

GEO

ITS

## ACCREDITATION

Department of Geomatics Engineering is nationally and internationally accredited such as

National

- BAN-PT (A Rating)
- LAM Teknik Undergraduate Program (Excellent)
- LAM Teknik Master's Program (Excellent)
- LAM Teknik Doctoral Program

International:

- ASIIN
- Asean University Network – Quality Assurance (AUN-QA)
- Indonesian Accreditation Board for Engineering Education (IABEE)



## COLLABORATIONS

### Inter-University Cooperation

- All Geodesy and Geomatics Engineering Departments in Indonesia
- Sekolah Tinggi Teknologi Angkatan Laut (STTAL)
- Tokyo University - Japan
- Chiba University - Japan
- Universite de la rochelle - France
- National Cheng-Kung University (NCKU) - Taiwan
- University Teknologi Malaysia (UTM) - Malaysia
- University Teknologi Mara (UiTM) - Malaysia
- University of New Brunswick - Canada
- Curtin University - Australia
- INSA Strasbourg - France
- Wuhan University - China

### Institutional Cooperation

- Badan Informasi Geospasial (BIG)
- Badan Pertanahan Nasional (BPN)
- Badan Meteorologi, Klimatologi, dan Geofisika (BMKG)
- Badan Riset dan Inovasi Nasional (BRIN)
- Local Government (Pemda)
- Esri Indonesia
- Trimble

### Professional Association

- Ikatan Surveyor Indonesia (ISI)
- Asosiasi Perguruan Tinggi Teknik Geodesi dan Geomatika Indonesia (APTTEGGI)
- Masyarakat Ahli Penginderaan Jauh Indonesia (MAPIN)
- Dewan Geomatika Indonesia (DGI)
- Dewan Hidrografi Indonesia (DHI)
- Masyarakat Pemetaan (HAGI)
- International Society of Photogrammetry and Remote Sensing (ISPRS)
- Asosiasi Perusahaan Survey Pemetaan dan Informasi Geospasial (APSPIG)
- International Association of Geodesy (IAG)
- American Geophysical Union (AGU)

# FACILITIES

Department of Geomatics Engineering has various facilities to support student activities both in terms of academic and non-academic, such as:

- Classroom
- Library
- Gazebo
- Laboratory
- Surveying Equipment
- Meeting room
- Computation Lab
- Canteen

# DEPARTMENT ACTIVITIES



## SEMINARS AND GUEST LECTURERS



## FIELD CAMP



## INTERNATIONAL UNDERGRADUATE PROGRAM



## SURVEYING EQUIPMENT LABORATORY



## HIMPUNAN MAHASISWA GEOMATIKA (HIMAGE)

# JOB OPPORTUNITIES

Alumni of the Department of Geomatics Engineering ITS can work in various agencies both government and private such as:

- Ministries/National Level Agencies (BIG, BRIN, PUPR, ATR/BPN, BAPPEDA)
- Military
- State-owned Enterprises (SOE) (Pertamina, PLN)
- Contractor/Consultant
- IT Startups
- Telecommunication Companies
- Mining, Oil and Gas Companies
- Entrepreneur
- Lecturer

## MASTER'S & DOCTORAL PROGRAM

Master's Program of Geomatics Engineering was established in 2009 and The Doctoral Program has only recently been opened in 2023. These programs are under the Department of Geomatics Engineering Institut Teknologi Sepuluh Nopember (ITS).

Initially, these programs were established to support the need for higher qualification level graduates in geomatics engineering.

These programs aims to have world-class alumni in education and innovative research to support industry and contributes to the development of science and technology related to the field of geomatics engineering.

[admission.its.ac.id](http://admission.its.ac.id)

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## FIND US

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