INSTITUT TEKNOLOGI BANDUNG
University Secretary
37 Provinces
*Capital City*: Jakarta, West Java Province

275 Million Population
*BPS, 2022*
ITB’s Campuses

ITB Ganesha Campus (29 hectares)

ITB Jatinangor Campus (40 hectares)

ITB Cirebon Campus (70 hectares, on construction)
ITB’s Future Campus

Future ITB Campus in Walini, West Java (planned)
Golden Jubilee (50th anniversary) of Institut Teknologi Bandung

1919
Technische Hoogeschool (TH) was established in Bandung

1940s
Institut Teknologi Bandung is inaugurated as State-Owned Legal Entity University (BHMN)

1945
Faculty of Mathematics and Natural Sciences was established (part of Universitas Indonesia)

1949
Institut Teknologi Bandung (ITB) or Bandung Institute of Technology was founded

2000
Institut Teknologi Bandung as State University with Legal Entity (PTN-BH)

2009
Golden Jubilee (50th anniversary) of Institut Teknologi Bandung

2013
Centennial Commemoration (100th year anniversary) of ITB as the oldest technical university in Indonesia

2020
Bosscha Observatory’s Centennial Anniversary

2023
Bosscha Observatory is the first and largest observatory in Southeast Asia

2024
ITB in the 100 years of Indonesia’s independence
ITB’s Four Pillars

- Science
- Technology
- Arts
- Humanity
ITB: a Globally Respected and Locally Relevant University

VISION
To become an outstanding, distinguished, independent, and internationally recognized university that leads changes toward welfare improvement of the Indonesian nation and the world

MISSION
To innovate, share, and apply science, technology, art and humanity and to produce excellent human resources for better Indonesia and the world

CHARACTERS
1) Excellence in Teaching & Learning
2) Excellence in Research
3) Excellence in Innovation
FACULTIES AND SCHOOLS
Bachelor, Master, Doctoral, Professional Programs

Programs in Indonesian
Programs in English
<table>
<thead>
<tr>
<th><strong>12 Schools/Faculties + 1 Graduate School</strong></th>
<th><strong>131 Study Programs</strong></th>
<th><strong>111 Research Groups</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. School of Architecture, Planning and Policy Development</td>
<td>7. Faculty of Civil and Environmental Engineering</td>
<td>10. Faculty of Mathematics and Natural Sciences</td>
</tr>
<tr>
<td>2. School of Business and Management</td>
<td>8. Faculty of Earth Sciences and Technology</td>
<td>11. Faculty of Mechanical and Aerospace Engineering</td>
</tr>
<tr>
<td>3. School of Electrical Engineering and Informatics</td>
<td>9. Faculty of Industrial Technology</td>
<td>12. Faculty of Mining and Petroleum Engineering</td>
</tr>
<tr>
<td>4. School of Life Sciences and Technology</td>
<td></td>
<td>13. Graduate School</td>
</tr>
</tbody>
</table>
8
International Undergraduate Programs (2022)

13
International Track Programs (2022)

53
International Master’s Programs (2022)

28
International Doctor’s Programs (2022)

Regional & Urban Planning
International Undergraduate Programs (2022)

- Pharmaceutical Science & Technology (SP)
- Environmental Engineering (FCEE)
- Chemical Engineering (FIT)
- Mechanical Engineering (FMAE)
- Aerospace Engineering (FMAE)
- Management (SBM)
- Entrepreneurship
- Clinical and Community Pharmacy
1. Geological Engineering (FEST)
2. Geodesy and Geomatics Engineering (FEST)
3. Engineering Physics (FIT)
4. Architecture (SAPPPD)
5. Urban and Regional Planning (SAPPPD)
6. Electrical Power Engineering (SEEI)
7. Telecommunication Engineering (SEEI)
8. Materials Engineering (FMAE)
9. Fine Arts (FAD)
10. Crafts (FAD)
11. Interior Design (FAD)
13. Product Design (FAD)
Earth Sciences
Groundwater Engineering
Geodesy and Geomatic Engineering
Geological Engineering
Actuarial Science
Astronomy
Physics
Chemistry
Mathematics
Teaching of Physics
Teaching of Chemistry
Teaching of Mathematics
Computational Science
Nuclear Science and Engineering
Design, Fine Art
Instrumentation and Control
Engineering Physics
Chemical Engineering
Industrial Engineering and Management
Logistics
Aerospace Engineering
Material Science and Technology
Mechanical Engineering
Informatics
Electrical Engineering
Nanotechnology

Water Supply and Sanitation
Water Resource Management
Road Management and Engineering
Ocean Engineering
Environmental Engineering
Civil Engineering
Mining Engineering
Geophysical Engineering
Geothermal Engineering
Metallurgical Engineering
Petroleum Engineering
Architecture
Landscape Architecture
Tourism Planning
Urban and Regional Planning
Urban Design
Development Studies
Transportation
Business Administration
Science Program in Management
Pharmacy
Industrial Pharmacy
Sports Science
Biology
Bio Management
Biotechnology
<table>
<thead>
<tr>
<th>International Doctor’s Programs (2022)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth Sciences</td>
</tr>
<tr>
<td>Geodesy and Geomatic Engineering</td>
</tr>
<tr>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Physics</td>
</tr>
<tr>
<td>Chemistry</td>
</tr>
<tr>
<td>Mathematics</td>
</tr>
<tr>
<td>Nuclear Science and Engineering</td>
</tr>
<tr>
<td>Astronomy</td>
</tr>
<tr>
<td>Science of Fine Art and Design</td>
</tr>
<tr>
<td>Engineering Physics</td>
</tr>
<tr>
<td>Chemical Engineering</td>
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<tr>
<td>Industrial Engineering and Management</td>
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<tr>
<td>Aerospace Engineering</td>
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<tr>
<td>Material Science and Technology</td>
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<tr>
<td>Mechanical Engineering</td>
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<tr>
<td>Environmental Engineering</td>
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<tr>
<td>Civil Engineering</td>
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<tr>
<td>Mining Engineering</td>
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<tr>
<td>Geophysical Engineering</td>
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<tr>
<td>Petroleum Engineering</td>
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<tr>
<td>Architecture</td>
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<tr>
<td>Urban and Regional Planning</td>
</tr>
<tr>
<td>Transportation</td>
</tr>
<tr>
<td>Science Program in Management</td>
</tr>
<tr>
<td>Pharmacy</td>
</tr>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>Nanotechnology and Science</td>
</tr>
<tr>
<td>Electrical Engineering and Informatics</td>
</tr>
</tbody>
</table>
ITB’s Rank
ITB’s World Rank 2023

RANKINGS TREND

Since 2014, Bandung Institute of Technology (ITB) moved up 226 places. Over the 10 considered years, the institution moved up 8 times and fell once.

TOP 17%

In the 2023 edition, the institution performed among the top 17% in the QS World University Rankings.
## ITB’s Rank

*(Based on Subjects)*

<table>
<thead>
<tr>
<th>Subject</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering – Petroleum</td>
<td>51-100</td>
</tr>
<tr>
<td>Art and Design</td>
<td>101-150</td>
</tr>
<tr>
<td>Architecture and Built Environment</td>
<td>101-150</td>
</tr>
<tr>
<td>Engineering – Civil and Structure</td>
<td>101-150</td>
</tr>
<tr>
<td>Engineering and Technology</td>
<td>179</td>
</tr>
<tr>
<td>Engineering – Electrical and Electronical</td>
<td>201-250</td>
</tr>
<tr>
<td>Engineering – Mechanical</td>
<td>201-250</td>
</tr>
<tr>
<td>Engineering – Chemical</td>
<td>201-250</td>
</tr>
<tr>
<td>Social Science and Management</td>
<td>238</td>
</tr>
<tr>
<td>Computer Science and Information System</td>
<td>251-300</td>
</tr>
<tr>
<td>Business and Management Studies</td>
<td>251-300</td>
</tr>
<tr>
<td>Agriculture and Forestry</td>
<td>301-350</td>
</tr>
<tr>
<td>Material Sciences</td>
<td>351-400</td>
</tr>
<tr>
<td>Natural Science</td>
<td>372</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>378</td>
</tr>
<tr>
<td>Mathematics</td>
<td>401-450</td>
</tr>
<tr>
<td>Physics and Astronomy</td>
<td>451-500</td>
</tr>
</tbody>
</table>
NUMBER OF STUDENTS
Number of Students (in 2022)

- The Graduate School: 3630
- School of Pharmacy: 2766
- School of Architecture, Planning, and Policy Development: 2689
- School of Life Sciences and Technology: 2455
- Faculty of Arts and Design: 2443
- Faculty of Earth Sciences and Technology: 2007
- Faculty of Mechanical and Aerospace Engineering: 1575
- Faculty of Mining and Petroleum Engineering: 1575
- Faculty of Industrial Technology: 1531
- Faculty of Mathematics and Natural Sciences: 1575
- Faculty of Civil and Environmental Engineering: 1531
- School of Electrical Engineering and Informatics: 2007
- School of Business and Management: 38118

Total: 25,257

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Number of Staff (in 2022)

- Administrative Staff: 1453
- Academic Staff: 1343

Total: 2,796
Research Centers

LPIT

7

- LPIT
- Bioscience and Biotechnology
- New and Renewable Energy
- Infrastructure and Territory
- Disaster Mitigation
- Nanoscience and Nanotechnology
- Cultural and Environmental Products
- Information and Communication Technology
Centers in ITB

- Center for Agrarian Studies
- Center for Artificial Intelligence
- Center for Carbon Dioxide and Flare Gas
- Center for Catalysis Engineering
- Center for Climate Change
- Center for Coastal and Marine Development
- Center for Defense and Security Technology
- Center for Environmental Studies
- Center for Health and Sport Technologies
- Center for Industrial Technology
- Center for Instrumentation Technology & Automation
- Center for Logistics & Supply Chain Studies
Center for Spatial Data Infrastructure
Center for Sustainable Transportation Technology Development
Center for Tourism Planning and Development
Center for Unmanned System Studies
Center for Water Resources Development
ITB Halal Center

Center for Mathematical Modelling and Simulation
Center for Microelectronics
Center for Public Policy and Governance
Center for Remote Sensing
Center for Research on Energy Policy
Center for Rural Areas Empowerment
Center for Smart City and Community Innovation

Centers in ITB
LPIT
Biosensors
Early Diagnosis Tools to Save Lives
oleh: Dr. Shofarul Wustoni - Dosen Peneliti FMIPA ITB

Computer Aided Engineering
in Indonesia
oleh: Dr. Mahesa Akbar - Dosen Peneliti FTMD ITB

Switched Reluctance Motor
The Alternative of Rare-Earth Free Motor
oleh: Dr. Jihad Furtani - Dosen Peneliti STEI ITB

Ionic Liquids
Designer Solvents for Green Chemistry
oleh: Kiki Adi Kurnia, Ph.D. - Dosen Peneliti FTI ITB
INTERNATIONAL COLLABORATION
Number of Academic Partners in 2022

Total: 744
Origin Countries:
- **Africa** (Ethiopia, Gambia, Libya, Madagascar, Egypt, Nigeria, Rwanda, Sudan, Tanzania, Zimbabwe)
- **Central and South Asia** (Iran, Palestine, Yemen, Pakistan, Afghanistan, Bangladesh, India)
- **East and Southeast Asia** (Malaysia, Timor Leste, Vietnam, Brunei Darussalam, Philippines, Laos, Thailand, China, Japan, South Korea, Taiwan)
- **Europe** (Austria, Netherlands, Czech Republic, Denmark, Ireland, Germany, Lithuania, France, Romania)
- **America** (United States, Canada, Mexico)

<table>
<thead>
<tr>
<th>Year</th>
<th>Int'l Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>176</td>
</tr>
<tr>
<td>2020</td>
<td>33</td>
</tr>
<tr>
<td>2021</td>
<td>50</td>
</tr>
<tr>
<td>2022</td>
<td>38</td>
</tr>
</tbody>
</table>

International Students (1.2%)
Potential Collaboration

- International Students Outing
- Research Collaboration
- Double Degree
- Faculty and student Exchange
- Other types of collaboration (e.g. co-supervision, visiting professors)
Bandung, West Java

Population
2.5 million
(11 million for Greater Bandung)

Tea Plantation (Ciwidey), Kawah Putih/White Crater (Lembang), Gedung Sate (Bandung City)
Interweave (Erasmus Mundus Partnership Asia-Europe), World Renewable Energy Network; The ASEAN University Network/Southeast Asia Engineering Education Development Network (AUN/SEED-Net); Resolution for International Cooperation & the Joint Research Work; EMILYA - European Programme for International Mobility with Asia; SEATUC (South East Asian Technical University Consortium); ASIA-UNINET, Global Engineering Education Exchange (GE3); Asia Technological University Network (ATU-NET); ASEAN International Mobility for Student Programme (AIMS), Asia-Oceania Top University League on Engineering (AOTULE); Association of Southeast Asian Institution of Higher Learning (ASAIHL); Global Technology Initiative (GTI); Population-Activities-Resources-Environment (PARE); President’s forum of Southeast Aria and South Asia and Taiwan University (SATU); Swiss-ASEAN Learning and Teaching (SALT); University Consortium on the 21st Century Maritime Silk Road (UCMSR); ITB – International Partners and Consortium.
Thank You!

Stay protected, stay safe, stay productive!

- In harmonia progressio -
ITB – Austria Partners

Joint research activities; Exchange of information in the area of scientific education and research which is of mutual to both parties; Exchange of faculty members for research, lectures and discussions; Exchange of graduate and undergraduate students for study and research.

- The Technical University Graz
- Technische Universität Wien (TU Wien) - Erasmus + Programme
- The Alpen-Adria-Universitat Klagenfurt (AAU)
- International Institute for Applied Systems Analysis (IIASA)
ITB – Germany Partners

• European Indonesian Partnership for Education 4.0 - Getting earth scientist ready for real time data from environmental sensors (E-IPED)
• Indonesian – German Research Centre for Bio Sourced Polymers
• Joint cooperation activity on academic exchange, Joint Research and Development Projects,
• Recognized the value of international cooperation and intent to further continue their common interest in mutual benefit and complementation in the area of education, research and industrial services.

• Technische Universität Carolo-Wilhelmina zu Braunschweig
• Rheinisch-Westfälische Technische Hochschule Aachen (RWTH Aachen University)
• Technische Universität Berlin (TUB)
• Technische Hochschule Darmstadt
• Hochschule für Bildende Kunste Braunschweig In Art and Design
• Braunschweig University of Art
• Technische Fachhochschule Berlin (TFH)
• Technische Universität Bergakademie Freiberg
• Technische Universität München (TUM)
ITB – Germany Partners

- George-Simon-OHM-Fachhochschule Nürnberg
- Universität Karlsruhe (TH), Germany (UKA)
- Technische Universität München
- Saarland University
- The University of Kaiserslautern
- Fachhochschule Erfurt - University of Applied Sciences
- Hochschule Rhein Main, University of Applied Sciences, Wiesbaden Russelsheim
- Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V. - Fraunhofer Institute for Wood Research
- Ulm University of Applied Sciences - Technische Hochschule Ulm
ITB – International Engagement

**Comprehensive Perspective Series on #1 Geological Hazard**

- Tsunami
- Earthquake
- Volcanoes
- Mitigation

10 Days Online Course
2 Credit Units

**FITB – ITB INTERNATIONAL VIRTUAL COURSE**

“A Resilient Future: From Social to Earth Science Technology for disaster risk reduction”

- Regional Tectonics of Indonesia and SEAsia
- Natural Hazard Classification
- Indonesian Volcanoes: Global Perspectives and Volcanic-related hazard
- Plate Margins and Fault distributions in Indonesia
- Earthquakes and the Aftermath
- Tsunami: Hazards and potentials
- Hazards Mitigation to build the Resilient Community

This program is **free of charge** for undergraduate and graduate students with earth science-related backgrounds. Professionals are welcome too.

**August 20**

Fancy joining us? Visit the website and register now.

**CODE: IVC 121**

[https://admission.itb.ac.id/registration/nonregular/ivc](https://admission.itb.ac.id/registration/nonregular/ivc)

**Comprehensive Perspective series on #2 Hazard Mitigation**

- Tsunami
- Earthquake
- Volcanoes
- Mitigation

10 Days Online Course
2 Credit Units

**PKKM DIKTI INTERNATIONAL VIRTUAL COURSE**

“Living Together and Understanding Natural Hazard to Build Resilient Communities”

- Regional Tectonics of Indonesia and SEAsia
- Volcanoes: Seismic Hazard, and Tsunami
- Medical Geology
- Hazard Mapping
- Geohazard and Hazards in Anthropogenic Regions

**INDONESIA CENTER OF EXCELLENCE FOR CCS and CCUS**

This center is also known as ITB Center of Excellence for CCS and CCUS, which is supported by PUI PTI (University Center of Excellence Program from Komunitas Budi (Ministry of Research, Technology, and Higher Education))

**International Virtual Course**

**Geophysics for Engineering & Environment: From Theory to Practical Applications**

- Geophysical Exploration
- Geophysical Potential and Natural Environmental Conditions
- Geophysical Potential and Natural Environmental Conditions

**COURSE MATERIALS:**

1. Introduction to Engineering & Environmental Geophysics
2. Pre-earthquake Process and its Impact on the Environment
3. Environmental Borehole Sensing
4. Geophysical Methods for Natural Observation
5. Past & Current Research on Environmental Studies in Chile
6. Geophysical Application and Study of Active Fault by using Electromagnetic Method
7. Environmental Geophysical Engineering
8. Petrophysical Measurements on Soil Samples
9. Specialized Information about the Application on Soil Samples
11. Introduction to EMT Method for Shape-Reliability Analysis
12. River Hydrology Analysis Theory and its Applications in Geophysical Engineering
13. Fluvial Sedimentation and Characterization
14. Applications of Machine Learning in Near Surface Geophysics
ITB – IITB Collaboration (on going)

• (Both) Members of the Asia Technological University Network (ATU-Net) and Presidents’ Forum of Southeast and South Asia and Taiwan Universities (SATU)
• Introduction Meeting on April 22, 2021
• Planned Workshops with FTMD (July 2021), not yet organized
• MoU and University-level MoA (student exchange), currently in progress (February 2022 – now)
• Workshops to organize with FITB/FTTM (2022)
• Sharing Information on programs (Graduate Scholarships from IITB and GTA-I from ITB)
• The Teri University (2014-2019)
• Bharatiya Vidya Bhavan’s S.P. Jain Institute of Management & Research Mumbai (SPJIMR) with **School of Business and Management**
• The Shetkari Shikshan Mandal's Bhivarabai Sawant College of Engineering and Research (TSSM’s BSCOER) with **Faculty of Industrial Technology**
• Saveetha Institute of Medical and Technical Sciences (SIMATS) with **School of Electrical Engineering and Informatics**
• Yogi Vemana University and Institute of Aeronautical Engineering (IARE) with **Faculty of Mathematics and Natural Sciences**
• The Asia-Oceania Top University League on Engineering (AOTULE) **Faculty of Mechanical and Aerospace Engineering**
• Participation of IITB students in ITB’s international summer schools or virtual courses - IVC (usually June – August, currently being planned)

**Examples:**
• Lab Work
• International Joint Studio Workshop
• Indonesian Arts Workshop