INDONESIA

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*)
History Diagram

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)

1950
Institut Teknologi Bandung (ITB) or Bandung Institute of Technology was founded

1959
Centennial Commemoration (100th year anniversary) of ITB as the oldest technical university in Indonesia

2000
Golden Jubilee (50th anniversary) of Institut Teknologi Bandung

2009
Institut Teknologi Bandung as State University with Legal Entity (PTN-BH)

2013
Boschfa Observatory’s Centennial Anniversary
Boschfa Observatory is the first and largest observatory in Southeast Asia

2020

2023

2045
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
1. School of Architecture, Planning and Policy Development
2. School of Business and Management
3. School of Electrical Engineering and Informatics
4. School of Life Sciences and Technology
5. School of Pharmacy
6. Faculty of Arts and Design
7. Faculty of Civil and Environmental Engineering
8. Faculty of Earth Sciences and Technology
9. Faculty of Industrial Technology
10. Faculty of Mathematics and Natural Sciences
11. Faculty of Mechanical and Aerospace Engineering
12. Faculty of Mining and Petroleum Engineering
13. Graduate School
8
International Undergraduate Programs (2022)

13
International Track Programs (2022)

53
International Master’s Programs (2022)

Regional & Urban Planning

28
International Doctor’s Programs (2022)
8

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 (SAPPD)
5. Urban and Regional Planning (SAPPD)
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)
53 International Master’s Programs (2022)

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>Earth Sciences</th>
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</thead>
<tbody>
<tr>
<td>Geodesy and Geomatic Engineering</td>
</tr>
<tr>
<td>Geological Engineering</td>
</tr>
<tr>
<td>Physics</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Nuclear Science and Engineering</td>
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<tr>
<td>Astronomy</td>
</tr>
<tr>
<td>Science of Fine Art and Design</td>
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<tr>
<td>Engineering Physics</td>
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<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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<td>Civil Engineering</td>
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<td>Mining Engineering</td>
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<td>Petroleum Engineering</td>
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<tr>
<td>Transportation</td>
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<tr>
<td>Science Program in Management</td>
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<tr>
<td>Pharmacy</td>
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<tr>
<td>Biology</td>
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<tr>
<td>Nanotechnology and Science</td>
</tr>
<tr>
<td>Electrical Engineering and Informatics</td>
</tr>
</tbody>
</table>
ITB’s Rank
2023 OVERALL RANK
#235

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.

PERCENTILE EVOLUTION
QS WORLD UNIVERSITY RANKINGS
<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
Institute for Innovation and Entrepreneurship Development

Institute for Science and Technology Development

Institute for Research and Community Service
LPIK ITB

- 134 Startups
- 829 HKI
- 205 Research Innovations
- 2069 Members
7 Research Centers

- LPIT
Centers in ITB

LPIT

- 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
LPIT Centers in ITB:

- Center for Mathematical Modelling and Simulation
- Center for Microelectronics
- Center for Spatial Data Infrastructure
- Center for Sustainable Transportation Technology Development
- Center for Public Policy and Governance
- Center for Remote Sensing
- Center for Research on Energy Policy
- Center for Urban Areas Empowerment
- Center for Smart City and Community Innovation
- Center for Unmanned System Studies
- Center for Water Resources Development
- ITB Halal Center
Biosensors
Early Diagnosis Tools to Save Lives

Computer Aided Engineering
in Indonesia

Switched Reluctance Motor
The Alternative of Rare-Earth Free Motor

Ionic Liquids
Designer Solvents for Green Chemistry

Apa Itu Biosensor?

CAE
Computer Aided Engineering

oleh: Dr. Shofarul Wustoni, Dosen Peneliti FMIPA ITB

oleh: Dr. Mahesa Akbar, Dosen Peneliti FTMD ITB

oleh: Dr. Jihad Furqani, Dosen Peneliti STEI ITB

oleh: Kiki Adi Kurnia, Ph.D., Dosen Peneliti FTI ITB
INTERNATIONAL COLLABORATION
Number of International Academic Partners in 2022

Total: 750

Source: International Relations Office, Sept. 2022
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 Asia and South Asia and Taiwan University (SATU); Swiss-
STUDENT’S ACHIEVEMENTS
Chatleen Arcelia, a student from the School of Pharmacy, won first place in the Compounding Event Inter-Regional Competition 2022 held by International Pharmacy Students Federation (IPSF).

5 students from Geology and Geophysics Program won first place in the 14th Imperial Barrel Award Asia Pacific Region 2022. Imperial Barrel Award is an annual competition held by American Association of Petroleum Geologist (AAPG).

Three students of ITB won Student Energy Quest Challenge (SEQC) 2022 held by Central & Eastern Indonesia Petroleum Summit (CEIPS) Award 2022. Each won first place (the champion), 1st runner up, and best presenter.
Kaisar Planow Team won gold medal in the World Young Inventors Exhibition (WYIE) 2022 which was held in Kuala Lumpur, Malaysia.

Three students of ITB won first place in the 2022 International Interior Design Association Student Design Competition, held by OFS and Carolina.

Ismail Al Faruqi won 2 (two) gold medals in Skate Asia 2022 which was held in Malaysia.
Thank You!

Stay protected, stay safe, stay productive!

- In harmonia progressio -
• Curtin University
• Griffith University
• Macquarie University
• Monash University
• Royal Melbourne Institute of Technology
• The University of Melbourne
• University of Technology Sydney (UTS)
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-Universität Klagenfurt (AAU)
- International Institute for Applied Systems Analysis (IIASA)
ITB – Germany Partners

- Technische Universität Caroli-Wilhelmina zu Braunschweig
- Rheinisch-Westfalische 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)
• 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
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
ITB – Engagement Collaboration

• 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