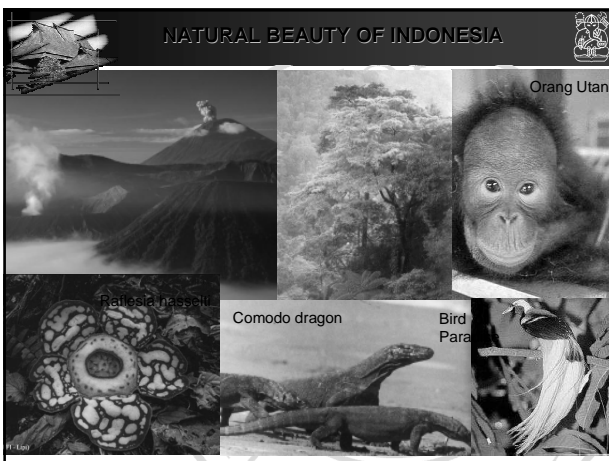


INDONESIA

Some facts & statistics:

- 17,508 islands
- The biggest moslem country
- About 240 million inhabitants
- 336 different ethnic
- 500 languages & dialects
- lies between two oceans (Indian & Pacific) and two continents (Asia & Australia)
- West-east 5150 km, North-south 2000 km
- 81% of Indonesia is sea area





UNIVERSITIES IN INDONESIA

- Around 50 State Owned Universities, among the top e.g:
 - University of Indonesia (THES World rank 201)
 - Gajah Mada University (THES World rank)
 - Bogor Agriculture Institute (THES World rank)
- 2000 Private Universities

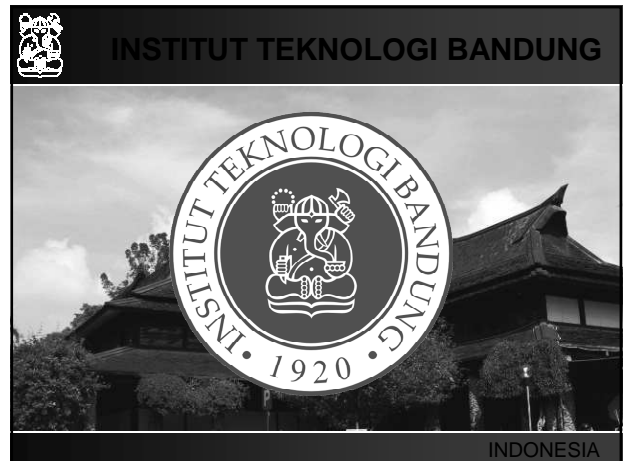


BANDUNG

Capital of West Java

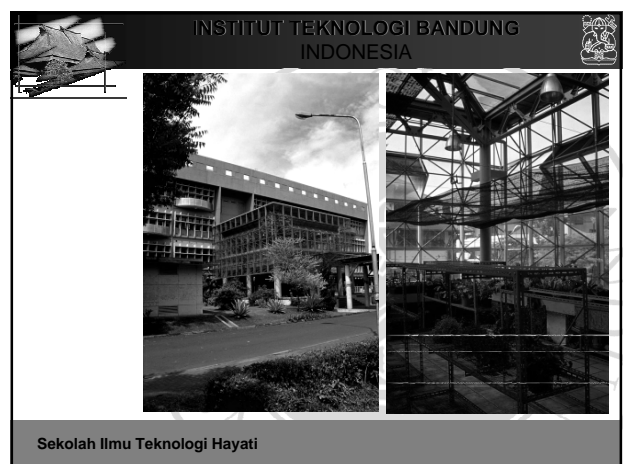
- 709 m above sea level, surrounded by mountains
- 2.5 million population
- 140 km south west Jakarta

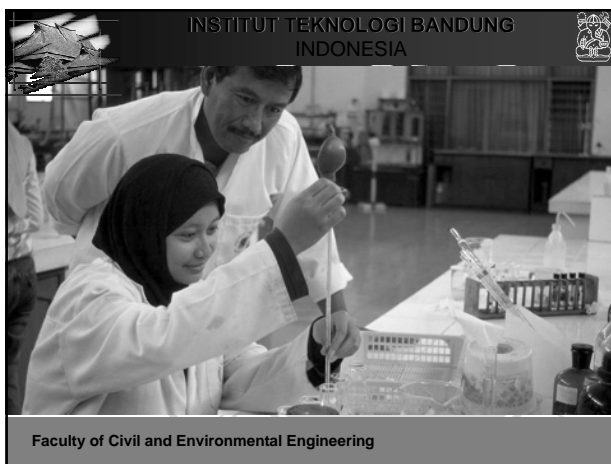





INSTITUT TEKNOLOGI BANDUNG INDONESIA	
INSTITUT TEKNOLOGI BANDUNG (ITB) AS LEGAL ENTITY (AUTONOMOUS)	ITB as Research and Development University: <i>Academic excellence for education, contribution to knowledge, industrial relevance, and community services.</i> December 26, 2000, ITB embarked on new status as legal entity (AUTONOMOUS)
INSTITUT TEKNOLOGI BANDUNG (ITB)	March 2, 1959, officially declared by Soekarno (1 st President of ROI) 1959, The first Rector of ITB was inaugurated 1970, Common Preparatory Level was opened 1979, The first Graduate Programs
Universitas Indonesia	Faculty of Engineering Faculty of Mathematics and Natural Sciences
Universiteit van Indonesie	June 21, 1946, officially declared by NICA 1946, Faculteit van Technische Wetenschap was established October 6, 1947, Faculteit van Exacte Wetenschap was established
Sekolah Tinggi Teknik (STT)	1945, opened 1946, moved to Yogyakarta & named as STT Bandung in Jogja 1946, became Faculty of Engineering, University of Gajah Mada (UGM)
Bandung Kogyo Daigaku (BKD)	April 1, 1942, TH was re-opened & named as BKD by the Japanese government
Technische Hogeschool (TH)	July 3, 1920, officially declared by the Dutch government July 1, 1924, the first graduates July 3, 1926, the first Indonesian graduates (among others, Ir. Soekarno, the 1 st President of ROI)









INSTITUT TEKNOLOGI BANDUNG INDONESIA

Location: Bandung, capital of West Java province

Facilities

CAMPUS	29 Ha
SPORT FACILITIES	4 Ha
BUILDING FLOOR PER STUDENT	18.5 m ²

STUDENTS

STUDENT BODY	Under-graduate	13052
	Master	3039
ENROLLMENT	Doctor	425
	Undergraduate	3079
GRADUATES	Master	1257
	Doctor	108
GRADUATES	Under-graduate	2514
	Master	1067
	Doctor	70

ACADEMIC AND NON ACADEMIC STAFF

ACADEMIC STAFF		1009
EDUCATION	Bachelor	41
	Master	278
	Ph.D.	690
	Professor	77
ACADEMIC RANK	Assoc. Professor	327
	Assistant Professor	356
	Lecturer	192
FACULTY : STUDENT RATIO		1:12
NO OF ADMINISTRATIVE STAFF		1187
ADM. STAFF : STUDENT RATIO		1:12

INSTITUT TEKNOLOGI BANDUNG INDONESIA	
TOP 100 WORLD RANK OF TECHNOLOGICAL UNIVERSITY (TIMES HIGHER EDUCATION SUPPLEMENT 2009)	
1. Massachusetts Institute of Technology (USA)	
6. Imperial College, London (UK)	
15. Delft University of Technology (The Netherland)	
33. Nanyang Technological University (Singapore)	
.....	
65 India Institute of Technology, Madras (India)	
74. Texas A & M University (USA)	
76. Tohoku University (Japan)	
80. INSTITUT TEKNOLOGI BANDUNG, Indonesia	
81. Pohang Univ.of Science and Tech. (Korea)	
83. University of Wisconsin Madison (USA)	
89. University of Stuttgart (Germany)	
93. University of Birmingham (UK)	
98. Nagoya University (Japan)	
.....	
201. University of Malaya (Malaysia)	

INSTITUT TEKNOLOGI BANDUNG INDONESIA	
Top Technological University in Indonesia	
Very high student selectivity:	
■ 1500 accepted through National University Entrance Selection, out of 20.000 applicants	
■ Ranked among the top 5% of National Selection Result	
■ 1500 accepted through ITB entrance examination, out of 16.000 applicants	

INSTITUT TEKNOLOGI BANDUNG INDONESIA	
FACULTIES/SCHOOLS	STUDY PROGRAMS
FACULTY OF MATHEMATICS & NATURAL SCIENCES (FMNS)	Astronomy, Chemistry, Mathematics, Physics
SCHOOL OF LIFE SCIENCES AND TECHNOLOGY (FLST)	Biology, Microbiology, Biotechnology
FACULTY OF CIVIL & ENVIRONMENTAL ENGINEERING (FCEE)	Civil Engineering, Environmental Engineering, Ocean Engineering
SCHOOL OF ARCHITECTURE, PLANNING AND POLICIES (SAPP)	Architecture, Regional and City Planning
FACULTY OF INDUSTRIAL TECHNOLOGY (FIT)	Chemical Engineering, Industrial Engineering, Engineering Physics
FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING (FMAE)	Mechanical Engineering, Aeronautics and Astronautics, Materials Engineering
SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS (SEEI)	Electrical Engineering, Informatics
FACULTY OF EARTH SCIENCES AND TECHNOLOGY (FEST)	Geology, Meteorology, Oceanography, Geodesy & Geomatic Engineering,
FACULTY OF MINING AND PETROLEUM ENGINEERING (FMPE)	Geophysical Engineering, Mining Engineering, Petroleum Engineering, Metallurgy Engineering
FACULTY OF ART AND DESIGN (FAD)	Design, Fine Art
SCHOOL OF BUSINESS & MANAGEMENT (SBM)	Management, MBA
SCHOOL OF PHARMACY (SP)	Pharmaceutical Science and Technology, Clinical and Community Pharmacy

INSTITUT TEKNOLOGI BANDUNG FACULTIES & SCHOOLS	
<ul style="list-style-type: none"> ● FACULTY OF MATHEMATICS & NATURAL SCIENCES (FMNS) ● SCHOOL OF LIFE SCIENCES AND TECHNOLOGY (FLST) ● FACULTY OF INDUSTRIAL TECHNOLOGY (FIT) ● FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING (FMAE) ● SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS (SEEI) ● SCHOOL OF PHARMACY 	<ul style="list-style-type: none"> ● FACULTY OF EARTH SCIENCES AND TECHNOLOGY (FEST) ● FACULTY OF MINING AND PETROLEUM ENGINEERING (FMPE) ● SCHOOL OF ARCHITECTURE, PLANNING AND POLICIES (SAPP) ● FACULTY OF CIVIL & ENVIRONMENTAL ENGINEERING (FCEE) ● FACULTY OF FINE ARTS AND DESIGN (FAD) ● SCHOOL OF BUSINESS & MANAGEMENT (SBM)


INSTITUT TEKNOLOGI BANDUNG ACADEMIC PROGRAMS	
■ Bachelor – 8 semesters	
□ Normally completed within 4 years	
□ 144 credit units	
□ Common Preparatory Level with minimum of 36 credit units	
□ Bachelor level with minimum 108 credit units	
□ Degree BSc	
■ Master – 3 semesters	
□ 36 credits units	
□ 18-30 credits courses	
□ 6-18 credits research work	
□ Degree MSc/ MEng	
■ Doctor – 6 semesters	
□ 40-52 credits	
□ 12-18 credits courses	
□ 36-42 credits research work	
□ Degree PhD	



INSTITUT TEKNOLOGI BANDUNG
ACADEMIC PROGRAMS

- **Fast-Track, Bachelor - Master**
 - For top students
 - Taking Master courses early
 - No double counting
 - Finish in 5 years

Undergraduate students with **high** achievement are eligible to continue their studies to Master's program as an integrated part of the Undergraduate Program. Undergraduate students graduates with **very high** achievement are eligible to enroll to the **Doctoral** program directly




INSTITUT TEKNOLOGI BANDUNG
ACADEMIC CALENDAR

- **First Semester**
 - End of August – Mid December (14 weeks)
 - Exam (2 weeks)
- **Second Semester**
 - End of January – Mid May (14 weeks)
 - Exam (2 weeks)
- **Short Semester**
 - June-July (8 weeks)



INSTITUT TEKNOLOGI BANDUNG
INTERNATIONAL STUDENTS

- **2009:**
 - **International Student Body: 203**
 - **Funded by VWO, Marco Polo, CTU – Republic Czech, KNB, AUNSEED-Net, DIKTI, Public Service Dept (JPA), Mara Malaysia, Yayasan Felcra, GTZ-Jerman, and privately funded.**



POSSIBLE COLLABORATION

- **Student Exchange Activities (undergraduate)**
 - Students take one semester- 2 semester study at other university
 - Has taken minimum of 108 credit units (4th year student)
 - Student register at Home University
- Points to be discussed:
 - Academic Calendar
 - Credit units
 - Support for Student
 - Number of Student
- **Research Exchange Activities (undergraduate & graduate)**
 - Students take one semester- 2 semester study at other university
 - Student register at Home University
- Points to be discussed:
 - Academic Calendar
 - Credit units
 - Support for Student
 - Number of Student




FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING
INSTITUT TEKNOLOGI BANDUNG

PROGRAMS

- **Bachelor, Master, Doctor**
 - Mechanical Engineering
 - Aeronautics and Astronautics
 - Materials Engineering

FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING
INSTITUT TEKNOLOGI BANDUNG

ACADEMIC STAFF

- Total: **76**
- Ph.D.: **59**, Master: **17**
- Professor : **14**
- Associate Professor: **22**
- Assistant Professor: **27**
- Lecturer: **13**

FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING
INSTITUT TEKNOLOGI BANDUNG

RESEARCH DIVISIONS

- Mechanical Design
- Energy Conversion
- Materials Science and Engineering
- Mechanical Production Engineering
- Flight Physics
- Lightweight Structures
- Design, Operation and Maintenance of Aircraft

FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING
INSTITUT TEKNOLOGI BANDUNG

CURRENT RESEARCH

<ul style="list-style-type: none"> • Biodiesel production. • Vibration. • Low rank coal upgrade. • Solar and wind energy. • Development of hydrocarbon refrigerants. • Combustion techniques. • Materials structure determination. • Intellegent manufacturing system • Robotics. • Submersible unmanned vehicles. 	<ul style="list-style-type: none"> • Rockets. • Digital imaging for experimental mechanics. • Unmanned aerial vehicles. • Wings in surface effect aircrafts. • Biomechanics • etc.
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FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING
INSTITUT TEKNOLOGI BANDUNG

PROFILE OF STUDENTS

Numbers of Active Students (January 2007)

Program	ME	AE	MatE
Bachelor	762	277	255
Master	75	35	15
Doctor	15	6	2
TOTAL	852	318	272

Note :
ME : Mechanical Engineering
AE : Aeronautics and Astronautics
MatE : Material Engineering


FACULTY OF MECHANICAL AND AEROSPACE ENGINEERING
INSTITUT TEKNOLOGI BANDUNG

NEW INTERNATIONAL PROGRAMS:

- MASTER IN MECHANICAL ENGINEERING SPECIALIZING FOR OIL AND GAS INDUSTRIES
- MASTER IN NEW AND RENEWABLE ENERGY
- MASTER IN AERONAUTICS AND ASTRONAUTICS


SERVICES FOR INDUSTRIES






INSTITUT TEKNOLOGI BANDUNG

COMMUNITY SERVICES



- As a university with ± 1000 experts, ITB has moral obligation to serve the industries with their expertises.
- Countless numbers of projects have been accomplished involving groups of ITB staffs, with or without cooperation with other parties.





INSTITUT TEKNOLOGI BANDUNG

COMMUNITY SERVICES



- Fields of Industry:
 - Manufacturing
 - Mining
 - Oil & gas
 - Agro-industry
 - Infra-structure
 - IT






INSTITUT TEKNOLOGI BANDUNG

COMMUNITY SERVICES




- **FEASIBILITY STUDY:** topological survey, demography, market survey, geological/mineral investigation, environmental impact analysis
- **CONCEPTUAL/BASIC DESIGN:** geotechnical, process, industrial product design, drafting
- **DETAIL ENGINEERING DESIGN:** piping/pipeline design, mechanical equipment design, electrical specification, IT system development
- **CONSTRUCTION/REALISATION:** Project management consultancy, supervision, manufacturing, prototyping
- **OPERATION/MAINTENANCE:** SOP development, maintenance management, industrial training, failure analysis, repair recommendation, fitness for service, modification, product improvement, HSE

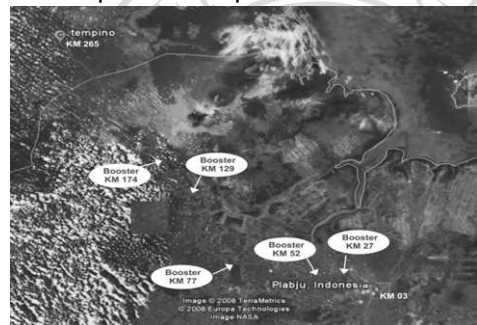



INSTITUT TEKNOLOGI BANDUNG

COMMUNITY SERVICES




- Oil Transportation Pipeline







INSTITUT TEKNOLOGI BANDUNG

COMMUNITY SERVICES



- Balerang Bridge connection

Map of Balerang

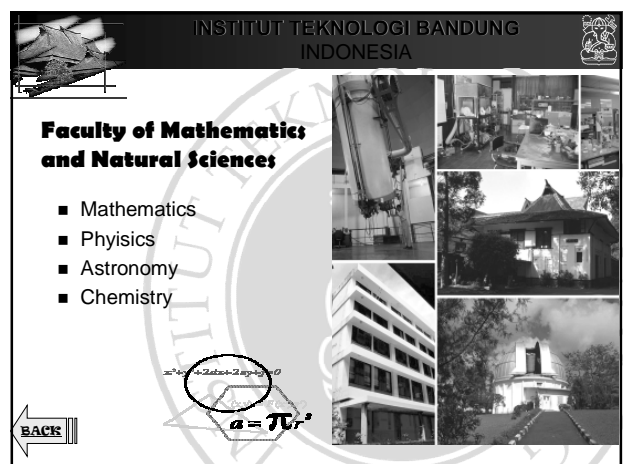


INTERNATIONAL STUDENTS

ACTIVITIES IN PICTURES







INSTITUT TEKNOLOGI BANDUNG
INDONESIA

School of Life Sciences and Technology

- Biology
- Microbiology

BACK



INSTITUT TEKNOLOGI BANDUNG
INDONESIA

School of Pharmacy

- Pharmaceutical Science and Technology
- Clinical and Community Pharmacy

BACK

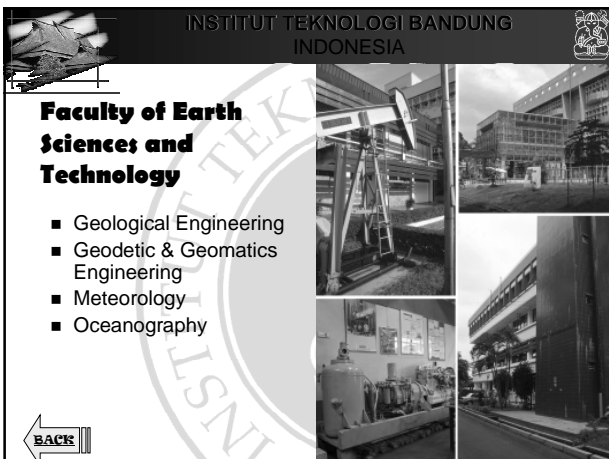


INSTITUT TEKNOLOGI BANDUNG
INDONESIA

Faculty of Earth Sciences and Technology

- Geological Engineering
- Geodetic & Geomatics Engineering
- Meteorology
- Oceanography

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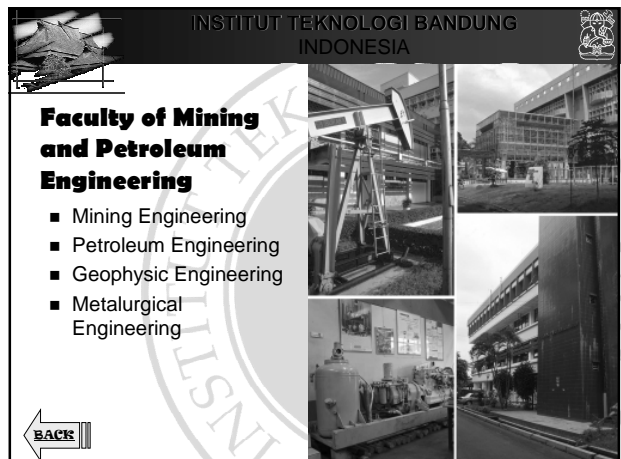


INSTITUT TEKNOLOGI BANDUNG
INDONESIA

Faculty of Mining and Petroleum Engineering

- Mining Engineering
- Petroleum Engineering
- Geophysics Engineering
- Metallurgical Engineering

BACK




INSTITUT TEKNOLOGI BANDUNG
INDONESIA

Faculty of Industrial Technology

- Chemical Engineering
- Engineering Physics
- Industrial Engineering

BACK




INSTITUT TEKNOLOGI BANDUNG
INDONESIA

Faculty of Mechanical and Aerospace Engineering

- Mechanical Engineering
- Aeronautics and Astronautics
- Materials Engineering


BACK






INSTITUT TEKNOLOGI BANDUNG


INDONESIA



School of Electrical Engineering and Informatics

- Electrical Engineering
- Informatics Engineering






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INSTITUT TEKNOLOGI BANDUNG

INDONESIA



Faculty of Civil and Environmental Engineering


- Civil Engineering
- Environmental Engineering
- Ocean Engineering



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INSTITUT TEKNOLOGI BANDUNG

INDONESIA



School of Architecture, Planning and Policy


- Architecture
- Regional and City Planning
- Development Studies (Master)



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INSTITUT TEKNOLOGI BANDUNG

INDONESIA



Faculty of Fine Arts and Design


- Fine Arts
- Handy Craft
- Interior Design
- Visual Communication Design
- Product Design



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INSTITUT TEKNOLOGI BANDUNG

INDONESIA



School of Business and Management

- Management



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