



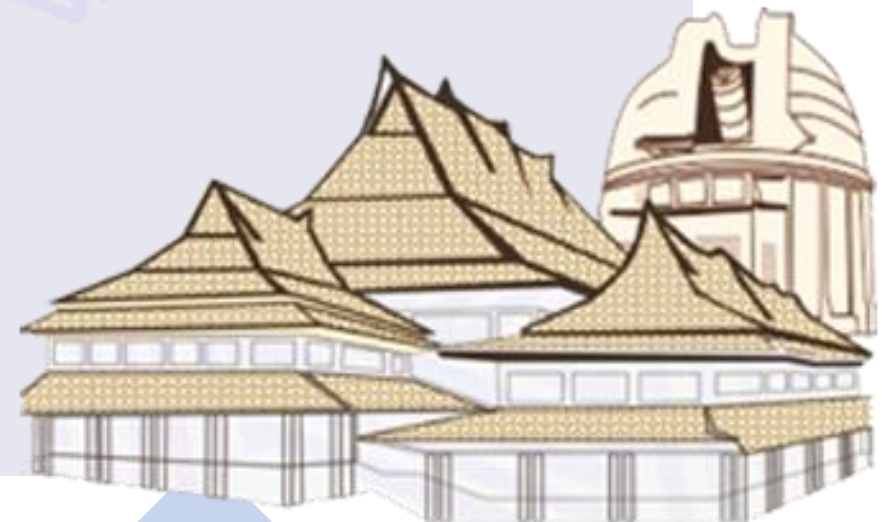
FMIPA-ITB

# Space Activities at Institut Teknologi Bandung

Rafli Rizaldi



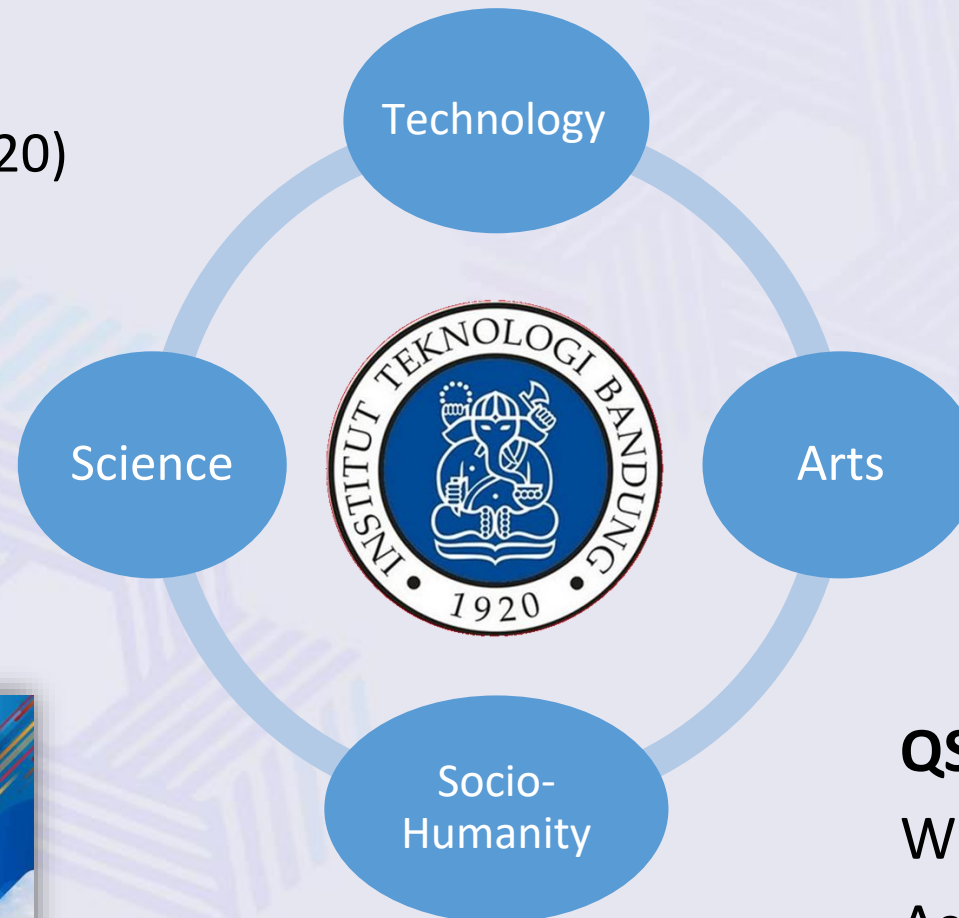
PUSAT SAINS,  
TEKNOLOGI & INOVASI  
KEANTARIKSAAN itb



# Institut Teknologi Bandung (ITB)

ITB was established in 1959 (formerly named *de Techniche Hoogeschool te Bandung* in 1920)

Currently, ITB has 3 main campuses, i.e. in Bandung, Jatinangor, and Cirebon.



## ITB multi-campus

- 12 faculty/schools
- 128 Study Programs
- 111 Research Groups
- 1510 Academic staffs
- 22,700 students

## QS ranking:

World #256

Asia #59



## ITB Campuses



Iconic Picture of Plaza Widya ITB

### ITB Bandung Campus



ITB Jatinangor Campus



ITB Cirebon Campus



Bosscha Observatory



Tangkuban Perahu



# Programs

Internationally accredited by



| Undergraduate     | Master                          | Doctoral            |
|-------------------|---------------------------------|---------------------|
| Astronomy         | Astronomy                       | Astronomy           |
| Physics           | Physics                         | Physics             |
| Mathematics       | Mathematics                     | Mathematics         |
| Chemistry         | Chemistry                       | Chemistry           |
| Actuarial Science | Actuarial Science               | Nuclear Engineering |
|                   | Computational Science           |                     |
|                   | Nuclear Science and Engineering |                     |
|                   | Teaching of Physics             |                     |
|                   | Teaching of Chemistry           |                     |
|                   | Teaching of Mathematics         |                     |



## Astronomy Research Groups

### Solar System

1. Physics of sun
2. Study of dynamic and evolution of asteroid
3. Study of atmospheric structure of planets in the solar system and extrasolar planets

### Stellar Physics

1. Theoretical study of stars
2. Numerical modelling of stellar and atmospheric structure
3. Observational studies like photometry and spectroscopy
4. Study of stellar clusters
5. Development of data acquisition and processing system of CCD-based astronomical instrumentation

### Galaxy & Cosmology

1. Structure, dynamics, distribution, evolution, and clusters of galaxies
2. Finding of dark matters
3. Theoretical cosmology
4. Observational cosmology



# Honors

| No. | Year | Name                          | Field     | Awards and Honors                       |
|-----|------|-------------------------------|-----------|---|
| 1   | 2007 | Prof. Dr. Bambang Hidayat     | Astronomy | <a href="#">Asteroid: 12176 Hidayat</a> |
| 2   | 2007 | Dr. Moedji Raharto            | Astronomy | <a href="#">Asteroid: 12177 Raharto</a> |
| 3   | 2007 | Dr. Dhani Herdiwijaya         | Astronomy | <a href="#">Asteroid: 12178 Dhani</a>   |
| 4   | 2007 | Prof. Dr. Taufiq Hidayat, DEA | Astronomy | <a href="#">Asteroid: 12179 Taufiq</a>  |
| 5   | 2007 | Premana W. Premadi, Ph.D.     | Astronomy | <a href="#">Asteroid: 12937 Premadi</a> |



## Facilities



Scanning Electron Microscope  
Laboratory



Advanced Physics  
Laboratory



Advanced Chemistry  
Laboratory



Bosscha Observatory

- Computation Laboratory
- Electrometry Laboratory
- Corrosion Laboratory
- Catalysis Laboratory
- Reactor Physics Laboratory

- Medical Physics Laboratory
- Optical and Laser Laboratory
- Magnetic and Cryogenic Laboratory
- Metal Organic Chemical Vapor Deposition Laboratory
- Plasma Enhanced Chemical Vapor Deposition Laboratory

## Astronomy Student Research Teams

### Observational Team

Focuses on data collection and data collection methods, and can offer the authenticity of the data obtained into research that contributes to the development of astronomical science.

### Computational Team

Focuses on the use of numerical and computational methods as tools in data processing and modeling to analyze astronomical phenomena.

### Theoretical Team

Focuses on developing theories and conceptual frameworks to explain various phenomena and processes in astronomy.





## Student Activities



## Center for Space Science, Technology & Innovation (PSTIA)



Recently open in May 2024

A research center that carries a major theme about space that synergizes with existing resources in the Faculties/Schools at ITB.

### More Information:

<https://dpitm.itb.ac.id/pstia/icssti2024>



### Topic Areas

- Space Science
- Space Technology
- Space Infrastructure
- Space Service



## For more informations



<https://fmipa.itb.ac.id>

<https://www.as.itb.ac.id>

<https://fi.itb.ac.id>

<https://www.chem.itb.ac.id>

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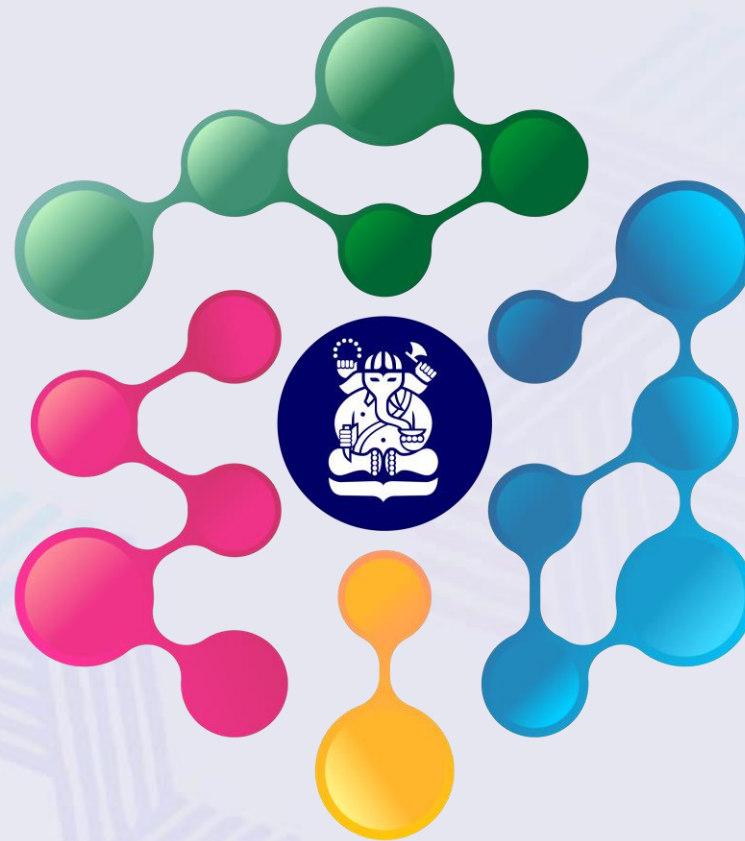
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