

Indah Nurhayati

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Bachelor of Physics | Specialist in Earth Physics and Natural Resources

PROFILE

Bachelor of Physics from the Bandung Institute of Technology (ITB), specializing in Earth Physics and Natural Resources using seismic methods. Experienced in field seismic surveys, geophysical data interpretation, and signal processing, and capable of analyzing data using Python and MATLAB. Understands geotechnical principles, particularly the analysis of liquefaction potential. Interested in the application of geophysics in the energy and industrial sectors, with a commitment to accuracy, safety standards (HSSE), and work quality.

EDUCATION

Bandung Institute of Technology

Bandung

Physics Departement – IPK 3.01

The final project is titled “Estimation of Soil Liquefaction Potential Using P-Wave Analysis Through Laboratory Experiments with Garut Sand as the Medium.” Conducted laboratory-based P-wave seismic testing on Garut sand samples to estimate soil liquefaction potential, using Matlab dan Python for data processing and analysis.

Margaasih Senior High School

Bandung

Successfully advancing through the city-level selection round for the National Physics Olympiad, organized by the Pusat Prestasi Nasional, demonstrates strong analytical and problem-solving skills.

EXPERIENCE

Program Kompetisi Kampus Merdeka (PKKM)

PKKM Tematik

Mei – Desember 2024

- Collaborated with BNPB to develop disaster mitigation modules that were provided to SMAN 1 Sumedang, covering everything from the development of technical content to the delivery of educational presentations directly to all classes.
- Developed skills in public communication, cross-functional collaboration, and coordination with external partners through community-based fieldwork.

ORGANIZATION EXPERIENCE

Himpunan Mahasiswa Fisika (HIMAFI)

Staff of Intenal Department

November – Juli 2024

- Plan and coordinate meetings and collaborative events between HIMAFI and other student organizations at ITB.
- Successfully strengthen relationships between organizations and increase active engagement across student organizations on the ITB campus.

SKILLS

Soft Skills	: Communication, Teamwork, , Identifying the Root Cause of Problems, Problem Solving, Time Management, Work Ethic, and Responsibility
Hard Skills	: Acquisition and measurement of geophysical data, seismic data interpretation, signal processing, liquefaction potential analysis, basic understanding of geoelectric methods, MT, and TDEM
Software	: Microsoft Office, Matlab (Signal Processing), Python (Data Analysis).
Language	: Indonesian and English