



## Fadhi, S.Si, M.Si

<b>Position</b>	Quantum Physics, Mathematics Physics, Mineral and Rocks Physics, Basic Electromagnetics, Occupational Health and Safety (Physics Department: Bachelor Degree of Electronic Engineering Study Programme; Bachelor Degree of Physics Study Programme, and Geophysics Engineering Study Programme)
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<b>Academic Career</b>	<b>Magister Course:</b> Institut Teknologi Bandung (ITB), Indonesia- Physics Department (1999-2002); <b>Bachelor Course:</b> Universitas Syiah Kuala (USK), Indonesia - Physics Department (1990-1996)
<b>Employment</b>	Lecturer of Physics Department (1997 - present) Secretary of Physics Department (2010-2014); Head of Geophysics and Sains Atmosfer Laboratory at Physics Dept., FMIPA, USK (2023- present)
<b>Research and development projects (last 5 years)</b>	<ol style="list-style-type: none"> <li>Critical mineral analysis of lithium in pegmatite rocks and hydrothermal fluids using laser-induced breakdown spectroscopy technique (LPPM USK, 2024)</li> <li>Development of a Machine Learning-Based Heavy and Extreme Monthly Rainfall Prediction Model for Flood Disaster Mitigation in Aceh Province: Case Study of North Aceh and South Aceh Districts (LPPM USK, 2022)</li> </ol>
<b>Collaborations (last 5 years)</b>	As a certified Internship mentor at the Meteorology, Climatology, and Geophysics Agency
<b>Patents and proprietary rights</b>	-
<b>Selective Publications (last 5 years)</b>	<ol style="list-style-type: none"> <li>Muhammad Yanis, Faisal Abdullah, R Ananda, <b>Fadhi Syamsuddin</b>, Nazli Ismail, Muzakir Zainal, A.Y Paembonan (2024) The Use of Global Gravity for Mapping The Relationship Between Seismicity and Geologic Structure in The Middle Part of Aceh Province, Indonesia, <i>ANAS Transactions, Earth Sciences</i> , 2, 33 - 47, E-ISSN 2663-0419.</li> <li>Maulidatul Hasanah, Fadhi Syamsuddin, Rini Safitri, Zulfadhli, MER Karmel, Muhammad Syukri (2024), Analysis of gravity anomaly data for identification of mineral distribution prospects in the Kuta Cot Glie area, Aceh Besar, Proceeding of IOP Conference Series: Earth and Enviromental Science 1356(1), 012118</li> <li>Zakaria Husen, Zaid Albarra, Khairi Suhud, Fauzi Fauzi, Elin Yusibani, Irhamni Irhamni, <b>Fadhi Syamsuddin</b>, Edwar Iswardy, Nurhanif Nurhanif, Ahmad Fairuz Bin Omar, Muhammad Syukri Surbakti (2023) Realtime instrumentation system towards blood oxygen saturation level monitoring with Liquid Crystal Display (LCD) and smartphone, <i>Journal of Aceh Physics Society</i>, 12(2)8-11</li> <li>Muhammad Reyza Khalid, <b>Fadhi Syamsuddin</b>, Nasrullah Zaini, Didik Sugiyanto (2021) Application of 2D resistivity method to determine serpentinite rocks in Kuta Cot Glie, Aceh Besar, <i>Journal of Aceh Physics Society</i>, 10 (1), 12 -16, 2355-8229.</li> <li>Miftahuddin, Norizan Mohamed, Maharani A. Bakar, Nur Shima, <b>Fadhi</b>, and Ichsan Setiawan (2021) Prediction of Rainfall Using ARIMA Mixed Models, <i>Applied Mathematics and Computational Intelligence</i>, 101-126, 2289-1315.</li> </ol>
<b>Membership</b>	Physical Society of Indonesia (PSI) (2020/2025); APTIKINDO/member (2023)
<b>External Linka</b>	<a href="https://fisika.usk.ac.id/fadhi-s-si-m-si/">https://fisika.usk.ac.id/fadhi-s-si-m-si/</a>