



## Prof. Dr. Ir. Muhammad Syukri, S.Si., MT, IPM, ASEAN.Eng

<b>Position</b>	Geophysics, Environmental Geophysics, Exploration Geophysical (Bachelor Degree Study Programme), Earth Physics, Geodynamics (Master Degree of Physics Study Programme)
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<b>Academic Career</b>	<b>Doctorate course:</b> Universiti Sains Malaysia (USM) Malaysia - Geophysics Programme, School of Physics (2001-2006); <b>Magister Course:</b> Institut Teknologi Bandung (ITB), Indonesia - Geophysical Engineering (1996-1998); <b>Bachelor Course:</b> Institut Teknologi Surabaya (ITS), Indonesia- Physics Department (1989-1993); <b>Engineering Profession:</b> Universitas Syiah Kuala (USK), Indonesia- Study Program of Professional Engineering Program (2020).
<b>Employment</b>	Professor of Physics Dept., FMIPA, USK (2020 – present), Secretary of Integrated Laboratory USK (2017- present), Manager of Competency Testing center (TUK) USK (2019-present); Head of Learning and Academic Student Activities, Directorate of Education and Learning (DPP) USK (2023-present); Head of Geophysics Laboratory, FMIPA, USK (2016-2017); Vice Dean of Academic Affairs, FMIPA USK (2014-2016), Vice Dean of Collaboration Affairs (2014-2016; 2008-2014), Head of Geophysics Laboratory at Physics Dept. FMIPA USK (2007-2008).
<b>Research and development projects (last 5 years)</b>	<ol style="list-style-type: none"> <li>1. Analysis of Subsurface Resistivity Model to Investigate the Causes of Road Failure in Aceh Besar Area (2024), PTBH USK.</li> <li>2. Integration of DEM data and MASW method for landslide potential mapping in the Seulawah-Pidie road infrastructure area (2024), PTNBH USK.</li> <li>3. Interpretation of Electrical Logging Geophysical Data to Identify Weakzone Layers Related to Liquefaction Potential in the Pidie Jaya Area (2023) PTNBH USK.</li> <li>4. Identification of Seawater Intrusion and Estimation of Discharge in the Surface Layer Using Resistivity Method and Darcy's Law for the Importance of the Plantation Sector in the Susoh Area, Southwest Aceh (2023) PTNBH.</li> <li>5. Flood Management Scenario Based on Hydrodynamic Simulation and Flood Impact for Downstream Area of Singkil River Basin Area, Aceh, Indonesia (2023) PTNBH.</li> <li>6. Characterization Of Shallow Structures Based On Electrical Properties of Rocks Related to Land Subsidence Potential In North Aceh Area (2022) PTNBH USK.</li> <li>7. Application of Natural Static Potential in Identifying Subsurface Structures in Geological Disaster Susceptive Areas, Banda Aceh (2021) PNBP USK.</li> <li>8. Identification of Hydrological Alterations due to the Influence of Tsunami Sediment and Lithological Distortion After the 2004 Mega-Earthquake in the Coastal Area of Aceh Using Geophysical Methods (2021), Fundamental Research Ministry of Research, Technology and Higher Education.</li> </ol>
<b>Collaborations (last 5 years)</b>	<ol style="list-style-type: none"> <li>1. Collaboration on Research, Publication, advising student research, student internship, in Malaysia and Indonesia 2008- present.S</li> </ol>
<b>Patents and proprietary rights</b>	(HAK CIPTA): Model Pembelajaran Merdeka Belajar Kampus Merdeka (MBKM) Riset Copyright Patent EC00202267150.
<b>Selective Publications (last 5 years)</b>	<ol style="list-style-type: none"> <li>1. A Farhan, M Syukri, S Syahreza, T Hidayat (2025), Analysis of extreme weather hazards in Aceh Besar Regency, Indonesia, using a geospatial approach. Ecological Engineering &amp; Environmental Technology (EEET) 26 (5).</li> <li>2. M Syukri, ST Anda, R Safitri, Z Fadhli, FM Hs, (2024) Preliminary Study of Tsunami Impact on Soil Salinity for Agriculture Based on Geophysical Data, a Case Study of Aceh Besar, Indonesia, Malaysian Journal of Science, V.43, no. 4, p. 68-75</li> <li>3. H Saputra, Z Fadhli, R Safitri, M Syukri (2024), Integrated Geophysical Analysis For Landslide Risk Mitigation: A Case Study On The Weak Zone Area Of Jantho-Lamno Route, Aceh, Indonesia, GEOMATE Journal 26 (113), 41-49.</li> <li>4. Ichsan Setiawan, Yudi Haditiar, Muhammad Syukri, Nazli Ismail, Syamsul Rizal (2023), Suspended sediment transport generated by non-hydrostatic hydrodynamics in Northern Waters of aceh, Indonesia, Journal Heliyon, Vol. 9.</li> <li>5. Yusran Asnawi, Andrean Simanjuntak, Umar Muksin, Syamsul Rizal, Muhammad Syukri Muhammad Syukri, Mira Maisura, R Rahmati (2022), Analysis of microtremor H/V spectral ratio and public perception for disaster mitigation, Journal of Geomate, Vol. 23, No. 97, 2022.</li> <li>6. Y Asnawi, AVH Simanjuntak, U Muksin, M Okubo, SI Putri, S Rizal, M Syukri (2022), Soil classification in a seismically active environment based on join analysis of seis-mic parameters, Global J. Environ. Sci. Manage, Vol. 8, No. 3, 2022.</li> <li>7. M Syukri, D Darisma, A C Farah, Z Sugito, (2021), Spatial and Temporal Analysis of b-value Imaging Characteristics Using High Precision Earthquake Spot in the Sumatran Subduction Zone, Iraqi Geological Journal, Vo.54, Issue 2B, 2021, p.1-11</li> </ol>
<b>Membership</b>	Physical Society of Indonesia (PSI/01201600057)(1997-present) ; Himpunan Ahli Geofisika Indonesia (HAGI) (1997-present); Society of Exploration Geophysicists (SEG) – Associate Membership (000000428195-0) (2018); FORSTAN (Forum Pendidikan Standarisasi Indonesia) (0050-18-ID-AC)(2018-present).
<b>External Link</b>	<a href="https://fsd.usk.ac.id/m.syukri/">https://fsd.usk.ac.id/m.syukri/</a>