



## Dr. M. Syukri Surbakti, S.Si., M.Si

<b>Position</b>	Antenna Technique, Electronics, Telemetry, Maintenance and Troubleshooting Technique, Data Communication System, Occupational Safety and Health (Bachelor Degree of Electronic Engineering Study Programme) Instrumentation of Meteorological, Climatological, and Geophysics, Electromagnetics, Data Communication and Telemetry, Instrumentation, Physical Property (Bachelor Degree Study Programme), Instrumentation of Meteorological, Climatological, and Geophysics, Physics Teaching Aids, Physics Educational Multimedia (Master Degree of Physics Study Programme)
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<b>Academic Career</b>	<p><b>Doctorate Course:</b> <i>University of Science Malaysia, Penang (2013)</i></p> <p><b>Magister Course:</b> <i>Physics from University of Gadjah Mada, Yogyakarta, Indonesia (2003)</i></p> <p><b>Bachelor Course:</b> <i>Physics from University of Sumatera Utara, Indonesia (1997)</i></p>
<b>Employment</b>	Associate Professor of Physics Dept., FMIPA, USK (2024 – present), Head of Electronics and Instrumentation Laboratory at Physics Dept. FMIPA USK (2024-present), Head of Bachelor Degree of Electronic Engineering Study Programme at Physics Dept., FMIPA, USK (2019-2023), Secretary of Magister Physics Study programme at Physics Dept., FMIPA, USK (2013-2018);
<b>Research and development projects (last 5 years)</b>	<ol style="list-style-type: none"> <li>1. Identification of physical and chemical properties of superior export coffee varieties from Indonesia after roasting process/Word Class Research (WCR) Grant-DP2M/Local coffee UMKM/IDR128,440,000/2021-2022</li> <li>2. Design of Flood Disaster Monitoring System Based on Wireless Sensor Network with Data Exploration Method Based on Big Data Analysis/ Collaborative research-DP2M/Ubudiyah University/IDR200,000,000/2018-2020</li> </ol>
<b>Collaborations (last 5 years)</b>	<ol style="list-style-type: none"> <li>1. Development and Manufacture of Geometry Normalized Electromagnetic System (GNES) Tools in Early Warning System Applications for Landslides and Liquefaction/Meteorology, climatology and geophysical (BMKG) /2019-2020</li> <li>2. Measurement physical property of coffee bean after harvesting/Griffith University/ 2021-2022</li> </ol>
<b>Patents and proprietary rights</b>	Patents: 2020, Membangun Server dan Jaringan\nKomputer dengan Linux Ubuntu, 64499000011, Indonesia, Indonesia. <i>M. Syukri Surbakti.</i>
<b>Selective Publications (last 5 years)</b>	<ol style="list-style-type: none"> <li>1. Suhud, K., Sukoma, S., Saleha, S., &amp; Surbakti, M. S. (2024). Development of TCS3200 color sensor based on arduino uno and its application in determining borax levels in food. <i>IJFAC (Indonesian Journal of Fundamental and Applied Chemistry)</i>, 9(2), 74-81.</li> <li>2. Ali, B., Nanda, M., Zainal, M., Yanis, M., Surbakti, M. S., Idris, N., &amp; Ismail, N. (2024). Application of ERT, IP and VLF-EM Methods to Investigate Landslide-Prone Structures at Archaeological Sites in Lamreh, Aceh Besar, Indonesia. <i>Trends in Sciences</i>, 21(3), 7221-7221.</li> <li>3. Adlim, M., Surbakti, M. S., Omar, A. F., Rahmayani, R. F. I., Hasmar, A. H., Ozmen, I., &amp; Yavuz, M. (2024). Detecting dissolved mercury (ii) ions using chitosan-AgNP strips integrated with smartphones. <i>RSC advances</i>, 14(38), 27504-27513.</li> <li>4. Surbakti, M. S., Farhan, M., Zakaria, Z., Isa, M., Sufriadi, E., Alva, S., ... &amp; Suhud, K. (2022). Development of arduino uno-based TCS3200 color sensor and its application on the determination of rhodamine B level in syrup. <i>Indonesian Journal of Chemistry</i>, 22(3), 630-640.</li> <li>5. Yusibani, E., Putra, R. I., Rahwanto, A., &amp; Surbakti, M. S. (2022, June). Physical properties of Sidikalang robusta coffee beans medium roasted from various colors of coffee cherries. In <i>Journal of Physics: Conference Series</i> (Vol. 2243, No. 1, p. 012046). IOP Publishing.</li> </ol>
<b>Membership</b>	Physical Society of Indonesia (PSI), Membership
<b>External Link</b>	<a href="https://fsd.usk.ac.id/msyukris/">https://fsd.usk.ac.id/msyukris/</a>