



Prof. Dr. Eng Elin Yusibani, S.Si., M.Eng

Position	Power Electric system, Microcontroller (Bachelor Degree of Electronic Engineering Study Programme) Quantum Physics, Nuclear Physics, Reactor Physics, Medical Physics, Instrumentation, Physical Property (Bachelor Degree Study Programme), Nuclear medicine (Master Degree of Physics Study Programme)
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Academic Career	Doctorate course: Kyushu University, Japan-Mechanical Engineering and Science (2007-2010); Magister Course: Tokyo Institute of Technology (TiTech), Japan- Nuclear Engineering (2003-2005); Bachelor Course: Institut Teknologi Bandung (ITB), Indonesia-Physics Department (1997-2002)
Employment	Professor of Physics Dept., FMIPA, USK (2024 – present), Head of Bachelor Degree of Electronic Engineering Study Programme at Physics Dept., FMIPA, USK (2024- present), Head of Magister Physics Study programme at Physics Dept., FMIPA, USK (2021-2022); Head of fundamental Physics Laboratory at Physics Dept. FMIPA USK (2017-2018); Head of Medical Physics and Applied Nuclear Laboratory at Physics Dept. FMIPA USK (2022-2024)
Research and development projects (last 5 years)	<ol style="list-style-type: none"> 1. Proportion of ZnO Composite in UV Environment and Its Characterization of Chemical Parameters, UV-Blocker Properties, ROS, and Antibacterial/ Professor research Grant-USK PTNBH/IDR70,000,000/2024-2025 2. Modification of Foam Hybrid Composite Panel Composition to Improve Mechanical Properties and Reduce Thermal Conductivity/Professor research Grant-USK PTNBH/IDR90,000,000/2022-2023 3. 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 4. 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
Collaborations (last 5 years)	<ol style="list-style-type: none"> 1. Measurement and Identification of Brain Wave Activity on Various Objects and Treatment of Experimental Patients Using Electroencephalogram (EEG)/Health Hospital Banda Aceh/2024-2025 2. 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 3. Measurement physical property of coffee bean after harvesting/Griffith University/ 2021-2022 4. Thermophysical properties of hydrogen measurement/ Advance Institute Science and Technology JAPAN (AIST)/2007-2010
Patents and proprietary rights	(HAK CIPTA): Mengenal Karakteristik Biji Kopi (books); Copyright Patent EC002022231923; Viskositas Gas Hidrogen (books); Fisika Matematika I (books)
Selective Publications (last 5 years)	<ol style="list-style-type: none"> 1. Jofrisha, M. Adlim, Elin Yusibani, Akhyar (2023) Chemical, physical and mechanical properties of hybrid foam concrete panels made of polyurethane and white Portland cement/<i>Iranian Journal of Chemistry and Chemical Engineering</i>, 41, 10219986 2. Jofrisha, M. Adlim, Elin Yusibani, Akhyar, Ratu Fazlia Inda Rahmayani, Rahmatul Fajri (2023) Preparation and characterization of indoor heat blockage panel composites made of polyurethane-hybrid-foam-concrete and rice-husk-ash/<i>Helijon</i>, 9(8) 24058440. 3. Elin Yusibani, P.L. Woodfield, A. Rahwanto, M.S. Surbakti, Rajibussalim, Rahmi (2023) Physical and Chemical Properties of Indonesian Coffee Beans for Different Postharvest Processing Methods/<i>Journal of Engineering and Technological Sciences</i>, 55, 1-11 4. M.S. Surbakti, M. Farhan, Zakaria, M. Isa, E. Sufriadi, S. Alva, Elin Yusibani, L. Heliawati, M. Iqhrammullah, K. Suhud (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 5. N. Idris, Maswati, Elin Yusibani (2020) The effect of the thickness of the glass plate of a hollow prism on the accuracy of measuring the refractive index of edible oil/<i>Optik</i>, 217, 164834, 00304026. 6. M. Isa, D.P. Cesarian, I.A. Abir, Elin Yusibani, M.S. Surbakti, M. Umar (2020) Remote Sensing Satellite Imagery and In-Situ Data for Identifying Geothermal Potential Sites: Jaboi, Indonesia/<i>International Journal Of Renewable Energy Development</i>, 9(2), 237-245, 2252-4940
Membership	Physical Society of Indonesia (PSI)/nuclear division(2020/2025); Himpunan Ahli Nuklir Indonesia (HIMNI)/member (2023); APTIKINDO/member (2023)
External link	https://fsd.usk.ac.id/eyusibani/