



Dr. rer. nat. Teti Zubaidah, S.T., M.T.

Observatorium Geomagnetik Lombok Founder

	Bachelor of Electrical Eng.	University of Indonesia	1997
	Master of Electrical Eng.	University of Gadjah Mada	2001
	Doctor of Science in Geomagnetism	Universtät Potsdam/ GFZ	2010
	Assoc. Prof.	University of Mataram	2019
Employment	Design Engineer	PT. Indokemas Buana Perkasa / CEGELEC	1997-1998
	Lecturer of Undergraduate Program in Electrical Eng.	University of Mataram	1998 - now
	Lecturer of Graduate Program in Civil Engineering	University of Mataram	2011- now
Research and development projects over the last 5 years	<ol style="list-style-type: none">1. 2022 - Exploration of Geothermal Potential over Sembalun Prospect for Direct Using (as Chair), PNBPN Unram - IDR 50 Mio.2. 2022 - Assessment of Indonesian Crustal Heterogeneity Characteristic Based on Geomagnetic Data for Disaster Risk Reduction of Earthquake and Tsunami in Indonesia (as Supervisor), L'Oreal For Women in Science/BRIN - IDR 100 Mio.3. 2022 - Investigation of Ionospheric Magnetic Fields Phenomena using LAPAN-A3 Satellite Data (as Member), BRIN - IDR 88.2 Mio.4. 2022 - Clustering of Earthquake Occurrences in Lombok Island Backarc Thrust Zone for Disaster Mitigation (as Member).5. 2022 - Analysis of Fluctuation Pattern of Temperature and Magnetic Fields at the Lombok Geomagnetic Observatory (as Member).6. 2021 - Application of Polarization Method for Precursor Analysis on Occurrence of Large Earthquake in Fukushima Japan (as Member).7. 2020 - Analysis of Geomagnetic Data of Nurul Bayan Station with Differentiation Method as Precursor Lombok of 2018 Lombok Earthquakes (as Member), PNBPN Unram - IDR 10.7 Mio.8. 2019 - Mini Exploration of Geothermal Potential using Geomagnetic Method over Sembalun Area (as Member), PNBPN Unram - IDR 10 Mio.9. 2018 to 2019 - Improvement of Geomagnetic Observatory for Integrated Earthquake Early Warning System in Eastern Indonesian Regions (as Chair), DIKTI/PTUPT - IDR 219 Mio.		

Industry collaborations / Community Services over the last 5 years

1. 2021 to 2022 - Implementation of Earthquake Mitigation at Engineering Faculty, University of Mataram.
2. 2022 – Geomagnetic and Geoelectric Survey for Ground Water Assessment at Rumah Qur’an At-Tazkiyah Sembalun.
3. 2020 - Program for Application of Disaster Mitigation in Earthquake Conditions for Disaster Readiness School in PAUD Ponpes Nurul Wathan, Central Lombok, NTB.
4. 2019 - Socialization and Implementation of Earthquake Disaster Mitigation with Orientation into Decreasing of Earth’s Magnetic Fields Due to Fault Movements at Ponpes Nurul Wathan, Central Lombok, NTB.
5. 2018 – Installation of Pump for Capturing Ground Water in Integration with Wind Electrical Power Plan at Rembitan Village, Central Lombok.
6. 2017 – Training of Installation and Maintenance of Wind Electrical Power Plan Facility at Rembitan Village, Central Lombok.
7. Consultation Services and Measurements for Right of Way (RoW) under 150 kV HVAC GI Ampenan – GI Tanjung (for PT. PLN Persero)
8. Services for Measurements of Electric and Magnetic Fields under 70 kV HVAC Bolok – Moulafa Kupang (for PT. PLN Persero)
9. Services for Measurements of Electric and Magnetic Fields under 150 kV HVAC GI Mataram – GI Switching Mataram (for PT. PLN Persero)
10. Services for Electric and Magnetic Fields at Solar Power Plan PLTS Sambalia (for PT. Delapan Menit Energi)

Patents and proprietary rights
Important publications over the last 5 years

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1. Zubaidah T (2022) Research Collaboration on Geothermal Sembalun Prospect. Presentation to Swedish Energy Delegation to Nusa Tenggara: Realizing Nusa Tenggara as Indonesia Renewable Energy Powerhouse, University of Mataram.
 2. Zubaidah T, Rosmaliati, Ramadhani C, Ratnasari D (2021) Implementation of earthquake mitigation at the Engineering Faculty, University of Mataram, E3S Web Conf. Vol. 331, ICDMM 2021, doi: 10.1051/e3sconf/202133103011.
 3. Ramadhani C, Kanata B, Zainuddin A, Rosmaliati, Zubaidah T (2021) Geomagnetic Anomaly Associated with Fukushima Earthquake on February 13th. E3S Web Conf. Vol. 331, ICDMM 2021, doi: 10.1051/e3sconf/202133107012.
 4. Zubaidah T, Kanata B, Paniran, Misbahuddin, Rosmaliati, MS Yadnya, Riskia S (2018) Earth Magnetic Fields Evolution over Nusa Tenggara Region from Declination and Inclination Changes on Lombok Geomagnetic Observatory. 2018 2nd AEMT, doi: 10.1109/AEMT.2018.8572475.
 5. Kanata B, Zubaidah T, Paniran; Zainuddin A, Ramadhani C, Wiriasto GW, LAS Irfan Akbar, Riskia S (2018) Earth Magnetic Fields Evolution over Nusa Tenggara Region from Intensity and Power Spectral Density Changes on Lombok Geomagnetic Observatory. 2018 2nd AEMT, doi: 10.1109/AEMT.2018.8572349.

6. Zubaidah T, Kanata B, Paniran, Yani A (2017) Static and Dynamic Magnetic Fields Scattering on a Mini Magneto-static Flux Manipulator for Wireless Power Transfer. 2017 15th International Conference on Quality in Research (QiR), doi: 10.1109/QiR.2017.8168515.
7. Zubaidah T, Kanata B, Paniran, Wiriasto GW (2016) Observation of geomagnetic fields changes related to 9th March 2016 solar eclipse on Lombok Island-Indonesia. The 7th Indonesia Japan Joint Scientific Symposium (IJSS), Chiba University, Japan.
8. Zubaidah T, Korte M, Mandeia M, Hamoudi M (2014) New insights into regional tectonics of the Sunda-Banda Arcs region from integrated magnetic and gravity modelling. *Journal of Asian Earth Sci.*, 80: 172-184, doi: 10.1016/j.jseaes.2013.11.013.
9. Zubaidah T, Korte M, Mandeia M, Quesnel Y, Kanata B (2010) Geomagnetic field anomalies over the Lombok Island region: an attempt to understand the local tectonic changes. *Int. J. Earth Sci. (Geol. Rundsch.)*, 99 (5): 1123–1132, doi: 10.1007/s00531-009-0450-4.

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	IEEE Indonesia Section	Eastern Indonesia Coordinator	2017 – 2018
	IEEE	Volunteer	2018 - ...
	Center of Excellence in Science and Technology “Geomagnetics”, University of Mataram	Chair	2019 - 2022