



Muhamad Syamsu Iqbal, S.T., M.T., Ph.D.

Wireless Sensor, Telecommunication

Bachelor's degree (Electrical Engineering) Universitas Gadjah Mada, Yogyakarta, Indonesia 1997

Master's degree (Electrical Engineering - Telecommunication) Institut Teknologi Bandung, Indonesia 2008

Ph.D. degree (Wireless Sensor Networks) Brunel University London, United Kingdom 2016

Employment Lecturer Undergraduate's program in Electrical Engineering, Engineering Faculty University of Mataram, Indonesia 1 March, 1999

Research and development projects over the last 5 years

1. Model intelligent agents in financial information system (AIS) software development (Internal Funds - 2022)
2. Exploration of multi-hop linear LoRa 915 MHz to increase transmission range with lower energy consumption on Low Power Wide Area Networks (Internal Funds - 2021)
3. Classification of DDoS attack patterns using Deep Learning Convolutional Neural Network (DL-CNN) (Internal Funds - 2021)
4. Port Scanning attack probability analysis on data network traffic (internal funds - 2020)
5. Development of multi-hop routing protocol on Low-Power Wide Area Networks to support strong wireless network infrastructure on the Internet of Things (Dikti funds - 2019)

Industry collaborations / Community Services over the last 5 years

1. Workshop on the use of information systems as a tool for evaluating online and offline learning processes (2022)
2. Internet of Things (IoT) training for students of SMK I Praya Tengah, Praya District, Central Lombok (2021)
3. Internet of Things (IoT) training for students of SMK I Praya Tengah, Praya District, Central Lombok (2020)
4. Electronic livestock weighing equipment for livestock communities in Ampenan District (2018)
5. Workshop on the use of digital educational games for pre-school teachers in Kota Mataram (2018)

Patents and proprietary rights -

Important publications over the last 5 years

1. EAM-LoRaNet: Energy Aware Multi-hop LoRa Network for Internet of Things, Kinetik: Game Technology, Information System, Computer Network, Computing, Electronics, and Control, Vol. 7 No.1, February 2022, pp. 81-90 (Sinta 2).

2. Performance Comparison of Ant Colony System and Firefly Algorithm for Travelling Salesman Problem, Proc. the 5th International Conference on Science and Technology (ICST 2020), Lombok 14 December 2020; pp. 108-113.
3. Multi-hop Uplink for Low Power Wide Area Networks Using LoRa Technology, 2019 6th International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE), 2019, pp. 1-5.
4. Fast pornographic image recognition using compact holistic features and multi-layer neural network, Inter. Journal of Advances in Intelligent Informatics, Vol.2, No.2, June 2019. ISSN: 2548-3161; pp. 89-100.

Activities in specialist bodies over the last 5 years

Organisation	Role	Period
1. Faculty of Engineering, Universitas Mataram	1. Dean	1. 2021 - 2025
2. Department of Electrical Engineering	2. Head of Departement	2. 2018 - 2021
3. Academic Senate of Universitas Mataram	3. Member	3. 2017 - now