


CURRICULUM VITAE

A. IDENTITAS PERSONAL

	<p style="text-align: center;">JURUSAN TEKNIK ELEKTRO FAKULTAS TEKNIK UNIVERSITAS MATARAM</p> <p style="text-align: center;">Email: msiqbal@unram.ac.id syamsuiqbal@yahoo.com</p>	
1	Nama Lengkap (dengan gelar)	Muhamad Syamsu Iqbal, S.T., M.T., Ph.D.
2	Jabatan Fungsional	Lektor Kepala (Sejak Februari 2011)
3	Jabatan Struktural	Ketua Jurusan (Periode 2018-2022)
4	N I P	
5	NIDN	
6	Tempat dan Tanggal Lahir	
7	Alamat Rumah	Jalan Assyafiiyah D12 Perumahan Gunung Sari Indah, Lombok Barat, NTB, 83351
8	Alamat kantor	Fakultas Teknik Universitas Mataram Jalan Majapahit 62 Mataram, NTB, 83125
9	No Telepon/Fax	0370-636126
10	Matakuliah yang diampu	<ol style="list-style-type: none"> 1. Dasar Telekomunikasi 2. Jaringan Telekomunikasi 3. Poses Stokastik 4. Probabilitas dan Statistika 5. Lingkungan dan Etika Rekayasa 6. Pra Tugas Akhir

B. RIWAYAT PENDIDIKAN

	<i>S1</i>	<i>S2</i>	<i>S3</i>
Nama Perguruan Tinggi	Universitas Gadjah Mada	Institut Teknologi Bandung	Brunel University London
Bidang Ilmu	Teknik Elektro	Teknik Elektro (Telekomunikasi)	Teknik Elektro (Wireless Sensor Network)
Tahun Masuk-Lulus	1991-1997	2005-2008	2011-2016
Judul Skripsi/Thesis/Disertasi	Perencanaan Sel pada Sistem Komunikasi Personal PHS	Studi Kinerja Protokol IEEE 802.15.4 untuk Jaringan Sensor Nirkabel Adhoc	Performance of IEEE 802.15.4 Beaconless-Enabled Protocol for Low Data Rate Ad Hoc Wireless Sensor Networks

Nama Pembimbing/Promotor	Prof. Adhi Susanto, M.Sc., Ph.D.	Dr. Ir. Hendrawan	Prof. Hamed Al-Raweshidy
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C. HIBAH PENELITIAN YANG PERNAH DIPEROLEH

1. Y.Saadi, **M.S. Iqbal**, dkk., “Evaluasi kebijakan pendamping profesional Indonesia di Provinsi Nusa Tenggara Barat”, Dinas Pemberdayaan Masyarakat Pemerintahan Desa, Kependudukan dan Pencatatan Sipil, Pemprov NTB 2019.
2. Misbahuddin, **M.S. Iqbal**, dkk., “Pengembangan protokol multi-hop routing pada low-power wide area networks untuk mendukung infrastruktur jaringan nirkabel yang kuat pada internet of things”, Penelitian Dasar Unggulan Perguruan Tinggi, Kemenristekdikti 2019.
3. Misbahuddin, **M.S. Iqbal**, dkk., “Pelacakan posisi objek pada ruang terbuka berdasarkan kekuatan sinyal LoRa menggunakan algoritma fingerprint”, Penelitian PNBPN Unram 2019.
4. Suwardji, **M.S. Iqbal**, dkk., “Penyusunan data dan informasi tentang manfaat dana desa di Provinsi Nusa Tenggara Barat”, Litbang Pendidikan dan Informasi, Kemendes PDTT 2018.
5. I G.P.S. Wijaya, **M.S. Iqbal**, dkk., “Rancang bangun sistem deteksi video pornografi dan aplikasinya pada smartphone Android”, PTUPT Kemenristekdikti multi tahun 2018-2019.
6. Misbahuddin, **M.S. Iqbal**, dkk., “Pengembangan infrastruktur jaringan nirkabel multi-hop untuk pelacakan objek pada ruang terbuka (outdoor tracking) menggunakan teknologi LoRa”, Penelitian PNBPN Unram 2018.
7. L.A.S. Irfan Akbar, **M.S. Iqbal**, dkk., “Perancangan Intrusion prevention (detection) system untuk mengamankan jaringan komputer”, Penelitian PNBPN Unram, 2017.
8. L.A.S. Irfan Akbar, **M.S. Iqbal**, dkk., “Perancangan dan simulasi jaringan komputer berbasis VLAN pada Teknik Elektro Universitas Mataram”, Penelitian PNBPN Unram, 2016.
9. **M.S. Iqbal**, H.S. Al-Raweshidy, and M.F. Abbod, “Performance of IEEE 802.15.4 Beaconless-Enabled Protocol for Low Data Rate Ad Hoc Wireless Sensor Networks”, BPPLN Kemenristekdikti 2011-2016, April 2016.

D. DAFTAR PUBLIKASI

- [1] Misbahuddin, **M. S. Iqbal**, and G. W. Wiriasto, "Multi-hop Uplink for Low Power Wide Area Networks Using LoRa Technology", 2019 6th International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE), Semarang, Indonesia, 26-27 September 2019, pp. 1-5. E-ISBN: 978-1-7281-2689-0. DOI: 10.1109/ICITACEE.2019.8904272. (Tersedia online di laman: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8904272&isnumber=8904090>)
- [2] IG.P.S. Wijaya, I.B.K. Widiartha, K. Uchimura, **M.S. Iqbal**, and A.Y. Husodo, “Fast pornographic image recognition using compact holistic features and multi-layer neural network”, Inter. Journal of Advances in Intelligent Informatics, vol.2, no.2, pp.89-100, June 2019. ISSN: 2548-3161. DOI: 10.26555.ijain.v5i2.268. (Tersedia online di laman: http://mail.ijain.org/index.php/IJAIN/article/view/268/ijain_v5i1_p89-100)
- [3] R.P. Ramadhan, G.W. Wiriasto, **M.S. Iqbal**, and M. Misbahuddin, “Sistem pengambilan keputusan penjurusan akademik, potensi psikologi, dan minat bakat siswa menggunakan fuzzy inference system metode Sugeno dua lapis”, Jurnal Siskom-KB (Sistem Komputer dan Kecerdasan Buatan), vol.2, no.2, pp.38-45, 21 Mei 2019. ISSN: 97722613-991013 (print); 97726212-292003 (online). (Tersedia online di laman: <http://jurnal.tau.ac.id/index.php/siskom-kb/article/view/59>)
- [4] A. Anhar, R. Nilavalan, and **M.S. Iqbal**, “Clustering based on the node health status in wireless sensor networks”, in Proc. The 11th Inter. Conference on Telecommunication Systems, Services, and Applications (TSSA 2017), Lombok-Indonesia, pp.1-5, 27-28 October 2017. E-ISBN: 978-1-5386-3546-9. DOI:10.1109/TSSA.2017.8272910. (Tersedia online di laman: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8272910&isnumber=8272885>).

- [5] V.P. Selvan, **M.S. Iqbal**, and H.S. Al-Raweshidy, "Performance analysis of linear precoding schemes for very large multi-user MIMO downlink system", in Proc. the 4th Inter. Conf. Innovative Computing Technology (INTECH 2014), Luton-UK, pp.219-224, 13-15 August 2014. E-ISBN: 978-1-4799-4233-6. DOI:10.1109/INTECH.2014.6927765. (Tersedia online di laman: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6927765).
- [6] **M.S. Iqbal**, H.S. Al-Raweshidy, and M.F. Abbod, "An evaluation study of IEEE 802.15.4 protocol to alleviate data overhead on low data rate ad hoc wireless sensor networks", in the Book of Abstract School of Engineering & Design Research Student Conference (ResCon 2014), Brunel University London, pp.217-218, 23-26 June 2014.
- [7] **M.S. Iqbal** and H.S. Al-Raweshidy, "Performance evaluation of IEEE 802.15.4 standard for low data rate ad hoc wireless sensor networks", in Proc. the 2nd Int. Conf. Control, Automation, and Information Sciences (ICCAIS 2013), Nha Trang Vietnam, pp.300-304, 25-28 November 2013. E-ISBN: 978-1-4799-0572-0. DOI:10.1109/ICCAIS.2013.6720572. (Tersedia online di laman: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6720572).
- [8] **M.S. Iqbal**, A. Masrub, V.P. Selvan, and H.S. Al-Raweshidy, "A performance enhancement of IEEE 802.15.4 standard to overcome hidden nodes effect on low data rate ad hoc WSNs", in Proc. the 3rd Inter. Conf. Innovative Computing Technology (INTECH 2013), London, pp.360-364, 29-31 August 2013. E-ISBN: 978-1-4799-0048-0. DOI:10.1109/INTECH.2013.6653642. (Tersedia online di laman: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6653642).
- [9] **M.S. Iqbal**, H.S. Al-Raweshidy, and M.F. Abbod, "Performance enhancement of IEEE 802.15.4 for low data rate ad hoc wireless sensor networks", in the Book of Extended Abstract School of Engineering & Design Research Student Conference (ResCon 2013), Brunel University London, pp.19-20, 24-26 June 2013. (Tersedia online di laman: http://www.brunel.ac.uk/_data/assets/pdf_file/0016/304711/132425-ResCon13_Abstract-Book-A4-283pg-Section-5-ECE-150dpi.pdf)
- [10] A. Masrub, R.S. Abbas, H. Al-Hmood, **M.S. Iqbal**, and H.S. Al-Raweshidy, "Cooperative sensing for dynamic spectrum access in cognitive wireless mesh networks," in Proc. IEEE Inter. Sym. Broadband Multimedia Systems and Broadcasting (BMSB 2013), London, pp.1-5, 5-7 June 2013. E-ISBN: 978-1-4673-6047-0. DOI:10.1109/BMSB.2013.6621758. (Tersedia online di laman: http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6621758).

E. PEMAKALAH SEMINAR/KONFERENSI

No.	Nama Pertemuan Ilmiah	Judul Artikel	Waktu dan tempat
1	The 2 nd International Conference on Applied Electromagnetic Technology (AEMT 2018)	Proximity-Coupled Multiband Substrate Integrated Waveguide Antenna with Defected Ground Structure	10-11 April 2018, Lombok, Indonesia
2	The 11 th International Conference on Telecommunication Systems, Services and Applications (TSSA 2017)	Clustering based on the node health status in wireless sensor networks	27-28 October 2017, Lombok, Indonesia
3	The 4 th International Conference on Innovative Computing Technology (INTECH 2014)	Performance analysis of linear precoding schemes for very large multi-user MIMO downlink system.	13-15 August 2014, Luton, UK
4	School of Engineering & Design - Brunel University Research Student Conference (ResCon 2014)	An evaluation study of IEEE 802.15.4 protocol to alleviate data overhead on low data rate ad hoc wireless sensor networks.	23-26 June 2014, London, UK

5	The 2 nd International Conference on Control, Automation, and Information Sciences (ICCAIS 2013)	Performance evaluation of IEEE 802.15.4 standard for low data rate ad hoc wireless sensor networks.	25-28 November 2013, Nha Trang, Vietnam
6	The 3 rd International Conference on Innovative Computing Technology (INTECH 2013)	A performance enhancement of IEEE 802.15.4 standard to overcome hidden nodes effect on low data rate ad hoc WSNs.	29-31 August 2013, London, UK
7	School of Engineering & Design - Brunel University Research Student Conference (ResCon 2013)	Performance enhancement of IEEE 802.15.4 for low data rate ad hoc wireless sensor networks.	24-26 June 2013, London, UK
8	The IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB 2013)	Cooperative sensing for dynamic spectrum access in cognitive wireless mesh networks.	5-7 June 2013, London, UK

F. KEGIATAN PENGABDIAN KEPADA MASYARAKAT

<i>No.</i>	<i>Kegiatan Pengabdian Masyarakat</i>	<i>Lembaga</i>	<i>Waktu</i>
1	Revitalisasi penerangan jalan umum di Dusun Gitaq Demung Desa Genggelang Kecamatan Gangga Kabupaten Lombok Utara	LPPM Unram (Dana Mandiri)	Tahun 2019
2	Pelatihan internet market place bagi pengrajin songket di Desa Sukarara Kecamatan Jonggat Kabupaten Lombok Tengah	LPPM Unram (Dana PNBPN)	Tahun Anggaran 2019
3	Alat penimbang hewan ternak elektronik bagi komunitas ternak di Kecamatan Ampenan	LPPM Unram (Dana BOPTN)	Tahun Anggaran 2018
4	Workshop pemanfaatan permainan edukasi digital bagi guru pra-sekolah di Kota Mataram	LPPM Unram (Dana PNBPN)	Tahun Anggaran 2018
5	Pemanfaatan Teknologi Repeater GSM pada Daerah Blank Spot Untuk Menunjang Proses Pembelajaran di Ma'had Darul Iman NW Bentek Pemenang Barat Kabupaten Lombok Utara	LPPM Unram (Dana BOPTN)	Tahun Anggaran 2017
6	Media Permainan Edukasi Digital bagi Guru dan Siswa PAUD/TK (Pra-Sekolah) di Kota Mataram	LPPM Unram (Dana PNBPN)	Tahun Anggaran 2017
7	Workshop Pemanfaatan Aplikasi Open-source Libre/Open Office Impress sebagai Media Pembuatan Materi Ajar Digital bagi guru di Lingkungan Pondok Pesantren Darul Falah Pagutan.	LPPM Unram (Dana PNBPN)	Tahun Anggaran 2016

G. PENGALAMAN JABATAN

1. Ketua Jurusan Teknik Elektro Universitas Mataram, periode 2018-2022
2. Anggota Senat Fakultas Teknik Universitas Mataram. Periode 2018-2022
3. Anggota Senat Universitas Mataram, periode 2017-2021
4. Sekretaris Komisi Senat Unram Bidang Perencanaan, periode 2017-2021

5. Anggota pengelola LOK (Lombok Geomagnetic Observatory) Universitas Mataram, 2016-2018.
6. Ketua Bidang Keahlian Telekomunikasi, Jurusan Teknik Elektro Unram, 2016-2017.
7. Sekretaris Program Reguler Sore Jurusan Teknik Elektro Unram, 2010-2011.
8. Ketua Program Hibah Kompetisi Jurusan Teknik Elektro Unram, tahun 2008.
9. Sekretaris Jurusan Teknik Elektro Unram, periode 2001-2005.
10. Anggota Senat Fakultas Teknik Unram, periode 1999-2005.
11. Kepala Laboratorium Sistem Kendali Jur Teknik Elektro Unram, tahun 2000

H. PENGALAMAN ORGANISASI PROFESI

1. IEEE Member, sejak tahun 2013.
2. Anggota FORTEI Indonesia, sejak 2018
3. Anggota Dewan Riset Daerah Kabupaten Lombok Utara, periode 2016-2018

Mataram, 16 Desember 2019
Yang menyatakan,

t.t.d

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