

PERSONAL INFORMATION

Asst. Prof. Mustofa Abi Hamid

University of Sultan Ageng Tirtayasa (Untirta)
Faculty of Teacher Training and Education
Department of Electrical Engineering Vocational Education
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Scopus Author ID <https://scopus.com/authid/detail.uri?authorId=23012354500> (h-index 5)

Orcid-ID : <https://orcid.org/0000-0001-9457-7844>

Google Scholar <https://scholar.google.co.id/citations?user=BIWhYRIAAAAJ&hl=id&oi=ao>

ResearchGate <https://www.researchgate.net/profile/Mustofa-Abi-Hamid>

WoS ResearcherID <https://www.webofscience.com/wos/author/record/483072>

EDUCATION AND TRAINING

Academic Qualification 2013 – 2015:

Master of Vocational Education from Universitas Negeri Padang (M.Pd. / M.Ed.)
Thesis: Development of student learning outcome assessment based information and communication technology in Vocational High School
Supervisor: Prof. Ganefri, Ph.D. and Dr. Fahmi Rizal, M.Pd., M.T.
GPA: 3.77 (4.0 scale)
Judicium: Cum Laude

2009 – 2013:

Bachelor of Education from Universitas Lampung (S.Pd. / B.Ed.)
Thesis: Comparative study of using feedback on student answer sheet towards mastery of static fluid concept through Contextual Teaching Learning
Supervisor: I Dewa Putu Nyeneng, M.Sc. and Dr. Undang Rosidin
GPA: 3.37 (4.0 scale)

Training and Workshop

02/2022: Siemens Mechatronics Systems Certification Program
09/2018: Domestic Non-Degree Training in journal management
07/2018: Asian Science Editors' Workshop
05/2018: Training of Instructional Skills Enhancement
04/2018: Workshop of Didactical Design Research

PROFESSIONAL EXPERIENCE

2016 – present: **Assistant Professor** at Department of Electrical Engineering Vocational Education, Faculty of Teacher Training and Education, Universitas Sultan Ageng Tirtayasa
2016 – present: **Lecturer** at Department of Electrical Engineering Vocational Education, Faculty of Teacher Training and Education, Universitas Sultan Ageng Tirtayasa
2021 – present: **Secretary** of Department of Electrical Engineering Vocational Education, Faculty of Teacher Training and Education, Universitas Sultan Ageng Tirtayasa
2019 – 2021: **Head** of Electrical Engineering Vocational Laboratory, Faculty of Teacher Training and Education, Universitas Sultan Ageng Tirtayasa
2016 – 2019: **Coordinator** of Industry Practise Program at Department of Electrical Engineering Vocational Education, Faculty of Teacher Training and Education, Universitas Sultan Ageng Tirtayasa

PUBLICATION

Peer-Reviewed Journal Scopus and/or WoS indexed

1. **Hamid, M.A.**, Aditama, D., Permata, E., Kholifah, N., Nurtanto, M., Majid, N.W.A. (2022). Simulating the COVID-19 epidemic event and its prevention measures using python programming. Indonesian Journal of Electrical Engineering and Computer Science 26 (1)
<http://ijeecs.iaescore.com/index.php/IJECS/article/view/27253>. Doi:
<http://doi.org/10.11591/ijeecs.v26.i1.pp278-288> (**Scopus indexed**)

2. Desmira, D., Bakar, N. A., Hashim, M. R., Wiryadinata, R., & **Hamid, M.A.** (2022). Laboratory prediction energy control system based on artificial intelligence network. *Bulletin of Electrical Engineering and Informatics*, 11(3). <https://doi.org/10.11591/eei.v11i3.1821> (**Scopus indexed**)
3. Desmira, D., **Hamid, M. A.**, Bakar, N. A., Nurtanto, M., & Sunardi, S. (2022). Smart Traffic Lights Using Microcontroller Based on Fuzzy Logic. *IAES International Journal of Artificial Intelligence*, 11(3), 809-818. <http://doi.org/10.11591/ijai.v11.i3.pp809-818> (**Scopus indexed**)
4. Desmira, D., Bakar, N. A., Wiryadinata, R., **Hamid, M.A.**, Kholifah, N., Nurtanto, M. (2022). Comparison of principal component analysis and ANFIS to improve EEEV Laboratory energy use prediction performance. *Indonesian Journal of Electrical Engineering and Computer Science*, 27(2). <https://ijeecs.iaescore.com/index.php/IJECS/article/view/27111> (**Scopus indexed**).
5. **Hamid, M. A.**, Rahman, S. A., Darmawan, I. A., Fatkhurrohman, M., & Nurtanto, M. (2021, November). Performance efficiency of virtual laboratory based on Unity 3D and Blender during the Covid-19 pandemic. In *Journal of Physics: Conference Series* (Vol. 2111, No. 1, p. 012054). IOP Publishing. <https://doi.org/10.1088/1742-6596/2111/1/012054>(**Scopus indexed**)
6. **Hamid, M. A.**, Permata, E., Aribowo, D., Darmawan, I. A., Nurtanto, M., & Laraswati, S. (2020). Development of cooperative learning based electric circuit kit trainer for basic electrical and electronics practice. In *Journal of Physics: Conference Series* (Vol. 1456, No. 1, p. 012047). IOP Publishing. <https://doi.org/10.1088/1742-6596/1456/1/012047> (**Scopus indexed**)
7. Darmawan, I. A., Budiayanta, N. E., Aribowo, D., Fatkhurrohman, M., **Hamid, M. A.**, Guntara, Y., & Nurhaji, S. (2020, January). Electricity course on vocational training centers: a contribution to unemployment management. In *Journal of Physics: Conference Series* (Vol. 1456, No. 1, p. 012048). IOP Publishing. <https://doi.org/10.1088/1742-6596/1456/1/012048> (**Scopus indexed**)
8. Desmira, D., **Hamid, M. A.**, Ramdani, S. D., & Pratama, T. Y. (2020, January). An ultrasonic and temperature sensor prototype using fuzzy method for guiding blind people. In *Journal of Physics: Conference Series* (Vol. 1446, No. 1, p. 012045). IOP Publishing. <https://doi.org/10.1088/1742-6596/1446/1/012045> (**Scopus indexed**)
9. Rahmat, A., Nugroho, A. R., Saregar, A., **Hamid, M. A.**, Prastyo, M. R. N., & Mutolib, A. (2019). Small Hydropower Potential of Rivers in Sukabumi Regency, West Java, Indonesia. *Journal of Physics: Conference Series* (Vol.1155, No.1, p. 012041). IOP Publishing. <https://doi.org/10.1088/1742-6596/1155/1/012041> (**Scopus indexed**)
10. Rahmat, A., **Hamid, M.A.**, Zaki, M. K., & Mutolib, A. (2018). Normalized Difference Vegetation Index in the Integration of Conservation Education. *Indonesian Journal of Science and Technology*, 3(1), 47-52. <https://doi.org/10.17509/ijost.v3i1.10798> (**Scopus indexed**)

National Accredited & ERIC indexed

1. Wahyuningsih, T., Darmawan, I.A., & **Hamid, M.A.** (2021). Evaluation of Electrical Installation Training Conducted by the Employment Training Center of Pandeglang Regency, Banten, Indonesia. *Jurnal Pendidikan dan Pemberdayaan Masyarakat*, 8(2), 199-211. <http://journal.uad.ac.id/index.php/EduLearn/article/view/15923> (**National Accredited**)
2. Oktaviana, D., & **Hamid, M.A.** (2021). Room Borrowing Information System Website Based using PHP and MySQL with Waterfall Model. *Journal of Vocational Education Studies*, 4(2). <https://doi.org/10.12928/joves.v4i2.4400> (**National Accredited**)
3. **Hamid, M.A.**, Aribowo, D., & Anggraini, R. (2021). Design and Development of Alumni Career Information System using PHP MySQL. *Elinvo (Electronics, Informatics, and Vocational Education)*, 6(1). <https://doi.org/10.21831/elinvo.v6i1.30200> (**National Accredited**)
4. **Hamid, M.A.**, Yuliawati, L., & Aribowo, D. (2020). Feasibility of electromechanical basic work e-module as a new learning media for vocational students. *Journal of Education and Learning (EduLearn)*, 14(2), 199-211. <http://journal.uad.ac.id/index.php/EduLearn/article/view/15923> (**National Accredited & ERIC indexed**)
5. Puspitasari, F., Permata, E., & **Hamid, M.A.** (2020). Pengembangan Media Pembelajaran Simulator Lift 4 Lantai Berbasis Plc Pada Mata Kuliah Otomasi Industri. *Jurnal Teknologi Pendidikan*, 13(2), 2407-2437. <https://doi.org/10.24114/jtp.v13i2.19345> (in Bahasa Indonesia) (**National Accredited**)
6. Nahrowi, D., Aribowo, D., & **Hamid, M.A.** (2020). Pengembangan Trainer Kit Mikrokontroler ATMega16 Sebagai Media Pembelajaran Untuk Sekolah Menengah Kejuruan. *Jurnal Pendidikan Teknologi dan Kejuruan*, 17(2), 145-155. <https://ejournal.undiksha.ac.id/index.php/JPTK/article/view/24366> (in Bahasa Indonesia) (**National Accredited**)
7. Septyanto, K., **Hamid, M.A.**, & Aribowo, D. (2020). Pengembangan E-Learning Berbasis Website menggunakan Metode Waterfall. *Elinvo (Electronics, Informatics, and Vocational Education)*, 5(1), 89-101. <https://doi.org/10.21831/elinvo.v5i1.31054> (in Bahasa Indonesia) (**National Accredited**)
8. Baihaqi, M. A., Aribowo, D., & **Hamid, M.A.** (2020). Pengembangan Aplikasi Sistem Informasi Prakerin Berbasis Android di Jurusan Elektronika Industri SMKN 1 Cikande. *Jurnal Edukasi Elektro*, 4(1). <https://doi.org/10.21831/jee.v4i1.32527> (in Bahasa Indonesia) (**National Accredited**)
9. Yuliawati, L., Aribowo, D., & **Hamid, M.A.** (2020). Analisis Kebutuhan Pengembangan Media Pembelajaran E-Modul Berbasis Adobe Flash pada Mata Pelajaran Pekerjaan Dasar Elektromekanik. (*Jurnal Pendidikan*

- Teknik Elektro*, 5(1), 35-42. <http://e-journal.unipma.ac.id/index.php/JUPITER/article/view/6197> (in Bahasa Indonesia) (**National Accredited**)
10. Hidayaturrohmah, M., Aribowo, D., & **Hamid, M.A.** (2020). Pengembangan Sistem Informasi Perkuliahan Berbasis Android di Prodi Pendidikan Teknik Elektro Fakultas Keguruan dan Ilmu Pendidikan Universitas Sultan Ageng Tirtayasa. *JUPITER (Jurnal Pendidikan Teknik Elektro)*, 5(1), 49-54. <http://e-journal.unipma.ac.id/index.php/JUPITER/article/view/6225> (in Bahasa Indonesia) (**National Accredited**)
 11. Aribowo, D., Permata, E., Desmira, D., Ekawati, R., **Hamid, M.A.**, Fatkhurrohman, M., Darmawan, I.A., Irwanto, I., Bahtiar, K. (2019). Analisis Hasil Uji PMT 150kV Pada Gardu Induk Cilegon Baru BAY KS 1. *JTEV (Jurnal Teknik Elektro dan Vokasional)*, 5(1.1), 59-65. <http://ejournal.unp.ac.id/index.php/jtev/article/view/106147> (in Bahasa Indonesia) (**National Accredited**)
 12. **Hamid, M.A.**, Nurtanto, M., Fawaid, M. (2018). The Analysis of Learning Implementation Plan (LIP) in Vocational Subjects Based on 2013 Curriculum. *Innovation of Vocational Technology Education*, 14(1), 17-21. <https://doi.org/10.17509/invotec.v14i1.11042> (**National Accredited**)
 13. Permata, E., **Hamid, M.A.**, & Pertiwi, R. R. (2018). Design of parking system miniature based personal computer using Borland Delphi 6.0. *VOLT: Jurnal Ilmiah Pendidikan Teknik Elektro*, 3(1), 49-57. <http://jurnal.untirta.ac.id/index.php/VOLT/article/view/3039> (in Bahasa Indonesia) (**National Accredited**)
 14. **Hamid, M.A.**, Aribowo, D., & Desmira, D. (2017). Development of learning modules of basic electronics-based problem solving in Vocational Secondary School. *Jurnal Pendidikan Vokasi*, 7(2), 149-157. <https://doi.org/10.21831/jpv.v7i2.12986> (**National Accredited**)
 15. Yasmi, Y., Syah, N., Ambiyar, A., & **Hamid, M.A.** (2017). Evaluasi Program Layanan Bimbingan Karir dengan Model Kirkpatrick di SMK Negeri 1 Kecamatan Guguk Kabupaten Lima Puluh Kota. *VOLT: Jurnal Ilmiah Pendidikan Teknik Elektro*, 2(1), 23-34. <http://dx.doi.org/10.30870/volt.v2i1.1479> (in Bahasa Indonesia) (**National Accredited**)
 16. **Hamid, M.A.** (2016). Pengembangan Instrumen Penilaian Hasil Belajar Siswa Berbasis TIK pada Pembelajaran Dasar Listrik Elektronika. *VOLT: Jurnal Ilmiah Pendidikan Teknik Elektro*, 1(1), 37-46. <http://jurnal.untirta.ac.id/index.php/VOLT/article/view/822> (in Bahasa Indonesia) (**National Accredited**)
 17. **Hamid, M.A.**, Nyeneng, I. D. P., & Rosidin, U. (2013). Perbandingan penggunaan feedback pada lembar jawaban siswa terhadap penguasaan konsep fisika melalui pembelajaran kontekstual. *Jurnal Pembelajaran Fisika*, 1(5). <http://jurnal.fkip.unila.ac.id/index.php/JPF/article/view/1691> (in Bahasa Indonesia) (**National Accredited**)

Conference Proceedings

1. Nurtanto, M., Fawaid, M., Nurhaji, S., Kholifah, N., **Hamid, M. A.**, Purmadi, A., & Rabiman, R. (2019). Information media literacy to improve working concept comprehension of ignition system with contact breaker through problem based learning. In *Proceedings of International Conference of Social Science, ICOSS 2018, Denpasar, Indonesia*. European Union Digital Library. <http://dx.doi.org/10.4108/eai.21-9-2018.2281183>
2. Aribowo, D., Permata, E., Fatkhurrohman, M., **Hamid, M.A.**, Desmira, D., Ekawati, R., & Indrawan, D. (2018). Perencanaan dan Perancangan Sistem Database Pasien RSUD Adjudarmo Lebak (in Bahasa) (Planning and designing of the patient Database System General Hospital Adjudarmo Lebak District). In *Conference on Electrical Engineering, Telematics, Industrial technology, and Creative Media (CENTIVE)* (pp. 06-12). IT Telkom Purwokerto. <http://conferences.itelkom-pwt.ac.id/index.php/centive/article/view/2>
3. Permata, E., **Hamid, M.A.**, & Fatkhurrohman, M. (2016). Smart Alarm Rumah Berbasis Short Message Service (SMS). *SENTIA 2016*, 8(2). <https://prosiding.polinema.ac.id/sentia/index.php/SENTIA2016/article/viewFile/95/89>

Books

1. **Hamid, M.A.**, Widyastuti, A., Firdaus, E., Chamidah, D., ... & Purba, S. (2021). *Pengelolaan Pendidikan*. (in Bahasa Indonesia). Educational Management. Yayasan Kita Menulis: Medan, Indonesia.
2. **Hamid, M.A.**, Ramadhani, R., Masrul, M., Juliana, J., ... & Simarmata, J. (2021). *Media Pembelajaran*. (in Bahasa Indonesia). Learning Media. Yayasan Kita Menulis: Medan, Indonesia.
3. Ramadhani, R., Masrul, M., Nofriansyah, D., **Hamid, M.A.**, ... & Suhelayanti, S. (2020). *Belajar dan Pembelajaran: Konsep dan Pengembangan*. (in Bahasa Indonesia). Yayasan Kita Menulis: Medan, Indonesia.
4. Simarmata, J., **Hamid, M.A.**, Ramadhani, R., Chamidah, D., Simanihuluk, L., Safitri, M., ... & Salim, N. A. (2020). *Pendidikan Di Era Revolusi 4.0: Tuntutan, Kompetensi & Tantangan*. (in Bahasa) Education in the Industrial Revolution 4.0: demands, competencies & challenges. Yayasan Kita Menulis: Medan, Indonesia.
5. Fajrillah F., Sulaiman, O.K., **Hamid, M.A.**, Simanihuluk, L., Simarmata, J., ... & Guci, D.A. *MOOC: Platform Pembelajaran Daring di Abad 21*. (in Bahasa). MOOC: The 21st century online learning platform. Yayasan Kita Menulis: Medan, Indonesia.

JOURNAL EDITOR & REVIEWER

2016 – present:

Editor-in-Chief of VOLT: Jurnal Ilmiah Pendidikan Teknik Elektro (Journal of Electrical Engineering Vocational Education)
Faculty of Teacher Training and Education, Universitas Sultan Ageng Tirtayasa

2022 – present:

Guest Editor of Frontiers in Education (Scopus indexed)

CURRICULUM VITAE

2022 – present:	Editor-in-Chief of Journal of Vocational and Technical Education and Training
2018 – present:	Reviewer of International Journal for Research in Vocational Education and Training (IJRVET)
2018 – present:	Reviewer of Journal of Vocational Education Studies (JOVES)
2018 – present:	Reviewer of Al-Mudarris: Journal of Education
2018 – present:	Editor of Jurnal Kebijakan Pembangunan Daerah (JKPD)
2018 – present:	Reviewer of JIPF (Jurnal Ilmu Pendidikan Fisika) - Journal of Physics Education
2017 – 2018:	Editor of Proceeding of Seminar on Education FKIP Untirta
and many more journal from Elsevier, etc.	

MEMBERSHIP

2016 – present:	Vice secretary of Association of Indonesian Vocational Educators (AIVE) Regional Banten
2018 – present:	Member of Council of Asian Science Editors (CASE)
2019 – present:	Member of Institute of Electrical and Electronics Engineers (IEEE) Education Society

TEACHING EXPERIENCES

2022, 1st semester:	Vocational Learning Strategies (2 credit) Engineering Physics (3 credit) Web Programming (2 credit) Electric Circuits Practice (1 credit)
2021, 2nd semester:	Vocational Learning Strategies (2 credit) Electrical Lesson Planning (2 credit) Microteaching (2 credit) Advance Physics (2 credit)
2021, 1st semester:	Educational Management (3 credit) Probability and Statistics (2 credit) Laboratory Management (2 credit) Physics (2 credit) Electric Circuits Practice (1 credit) Web Programming (1 credit) Teaching internship (3 credit)
2020, 2nd semester:	Vocational Learning Strategies (2 credit) Electric Circuits 2 (2 credit) Electrical Lesson Planning (2 credit) Microteaching (2 credit)
2020, 1st semester:	Electric circuits 1 (2 credit) Web Programming (2 credit) Probability and Statistics (2 credit) Applied Mathematics (2 credit) Evaluation of Process and Learning Outcomes (3 credit) Electromagnetic Field (3 credit)
2019, 2nd semester:	Vocational Learning Strategies (2 credit) Electric Circuits 2 (2 credit) Electrical Lesson Planning (2 credit) Microteaching (2 credit)
2019, 1st semester:	Electric circuits 1 (2 credit) Web Programming (2 credit) Probability and Statistics (2 credit) Applied Mathematics (2 credit) Evaluation of Process and Learning Outcomes (3 credit) Electromagnetic Field (3 credit)
2018, 2nd semester:	Technical and Vocational Education (2 credit) Microteaching (2 credit) Methodology of Education Research (2 credit) Electrical Measurement (2 credit) Electric Circuits 2 (2 credit) Calculus 2 (2 credit) Computer Programming (2 credit)
2018, 1st semester:	Curriculum and Learning of Electrical Engineering Education (3 credit)

	Evaluation of Electrical Engineering Education Learning (3 credit) Web Programming (2 credit) Calculus 1 (2 credit) Applied Mathematics (2 credit) Undergraduate Thesis (2 credit) Probability and Statistics (2 credit) Industrial Appreantice Program (2 credit)
2017, 2nd semester:	Learning Plan (2 credit) Curriculum of Electrical Engineering Education (2 credit) Microteaching (2 credit) Learning Media Development (3 credit) Industrial Appreantice Program (2 credit)
2017, 1st semester :	Evaluation of Electrical Engineering Education Learning (3 credit) Applied Mathematics (2 credit) Industrial Appreantice Program (2 credit) Electromagnetics Field (3 credit) Electrical Measurement (2 credit)
2016, 2nd semester:	Electric Circuits 2 (2 credit) Learning Plan (2 credit) Microteaching (2 credit) Calculus 2 (2 credit) Industrial Appreantice Program (2 credit) Electrical Measurement Practice (1 credit)
2016, 1st semester:	Evaluation of Electrical Engineering Education Learning (3 credit) Web Programming (2 credit) Electric Circuits 1 (2 credit) Electrical Measurement (2 credit)
2015, 2nd semester:	Management of Education (2 credit) Learning Plan (2 credit) Educational Psychology (2 credit)

Source:

https://pddikti.kemdikbud.go.id/data_dosen/RTk3QjQzN0YtMzY4Ri00QTRBLUFDQjAtNTg1NTNGOEQ3RTYw

RESEARCH GRANT

2016	:	Innovation Learning Research Grants. 10 Million IDR. Development of electronic learning module based-Problem Solving to improve competency of Vocational High School students in Banten Province in facing ASEAN Economic Community (AEC)
2017	:	Lecturer Research Grant. 10 Million IDR. Development of Programmable Logic Controller (PLC) learning tool based-Project Based Learning and local wisdom as student competency strengthening
2017		Institute of Research and community service Grant. 15 Million IDR. Electrical Installation Trainer as Strengthening Competency of Electrical Engineering Education FKIP Untirta
2019		Innovation Learning Research Grants. 15 Million IDR. Development of Massive Open Online Courses (MOOCs) based on the study of electric power systems as a medium for distance learning
2021		Penelitian Dasar Internal (PDI) Grant, Universitas Sultan Ageng Tirtayasa. 50 Million IDR. Virtual and Remote Laboratory Development based on Unity 3D to Improve Practice Skills and Learning Outcomes in accordance with the Demands of 21st Century Competence in Hybrid Learning Implementation in the Covid-19 Pandemic.
2022		Penelitian Dasar Internal (PDI) Grant, Universitas Sultan Ageng Tirtayasa. 50 Million IDR. Development of Programmable Logic Controller (PLC) based-Outseal Trainer to Improve Learning Innovation Skills 4Cs and Generic Green Skill TVET in Support of Education for Sustainable Development (ESD)

COMMUNITY SERVICE

CURRICULUM VITAE

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| 2021 | Exploration of Outseal PLC and Open Laboratory Flexible Manufacturing System for The Preparation of Industrial-Based Learning Media in Vocational High School No. 2 Kota Serang, Banten, Indonesia |
| 2016 | Improvement of competency of Information and Communication Technology (ICT) in village and community government in Jombang subdistrict, Cilegon |
| 2016 | Development of rural electrical distribution network to increase productivity of small and medium enterprises (SME) village community in Banten Province |
| 2016 | Programmable Logic Control (PLC) and robotics Workshop for teachers and students in Vocational High school Banten Province |
| 2016 | Improved competency of Information and Communication Technology (ICT) for Al-Muhajirin Elementary school teachers in Cilegon city |
| 2016 | Drafting tem of Rural electric Roadmap of Banten province 2017-2021 |

Best Regards,



Mustofa Abi Hamid