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Telecommunications, Traffic Engineering

Bachelor's degree (Electrical Engineering) Institut Teknologi Sepuluh Nopember, Surabaya 1993

Master's degree (Electrical Engineering) Institut Teknologi Sepuluh Nopember, Surabaya 2000

Employment Lecturer Undergraduate's program in Electrical Engineering, Engineering Faculty University of Mataram, Indonesia 1997

Research and development projects over the last 5 years

1. Design of Mangosteen Fruit Quality Detection Equipment Using Ceramic Dielectric Resonators (Internal Funds - 2022)
2. Implementation of Gray Level Co-Occurrence Matrix (GLCM) and Convolutional Neural Networks (CNN) Optimization for Recognition of Lombok Songket Motifs (Internal Funds - 2022)
3. Mangosteen Fruit Sorting System Prototype Using Microwaves (Internal Funds - 2021)
4. Mangosteen Fruit Quality Detection Using Microwaves (Internal Funds - 2020)
5. Characteristics of Mangoes Based on Dielectric Value and Conductivity Using Split-Ring Resonator Technique (internal funds - 2019)
6. Detection of Fruit Caterpillars in Honey Mango Using Microwaves (internal funds - 2018)
7. Synthesis of Use of VNWA as a Liquid Composition Measurement (Case Study of Lombok Honey Content Coefficient) (internal funds - 2017)

Industry collaborations / Community Services over the last 5 years

1. Training on Planning and Installation of Safe Electrical Installations Based on PUIL 2011 (SNI 0225:2011) for Buildings for the Community of Jelantik Village, Jonggat District, Central Lombok Regency (2022)
2. Mentoring SMA Negeri 1 Mataram Students Through Arduino Connection Training to Measure Air Pollution Levels and Body Temperature Wirelessly Via Bluetooth (2022)
3. Community Empowerment of Tumpak Village, Pujut District, Central Lombok Through Counseling on Anticipation of Cellular Phone Radiation, Feasibility Test of Electrical Installations and Measurement of Electrical Energy Vampires (2022)
4. Arduino Connection Training with Bluetooth to Measure Air Pollution Levels and Body Temperature and Socialization of the Department of Electrical Engineering Unram at SMAN 3 Mataram (2021)

5. Electrical Installation Feasibility Test Training and Power Quality Measurement at SMKN 1 Lingsar, Lingsar District, West Lombok Regency (2021)
6. Socialization of Electrical Installation Standards Based on PUIL 2011 (SNI 0225:2011) Perina Village, Jonggat District, Central Lombok Regency (2020)
7. Counseling on Electrical Installation Maintenance and Efficient Use of Electrical Energy in Banyumulek Village, Kediri District, West Lombok Regency (2020)
8. Socialization of Anticipation of Cellular Phone Radiation, Electrical Installation and Measurement of Vampire Energy Electrical Equipment in Perampuan Village, Labuapi District, West Lombok Regency (2019)
9. Socialization of the Utilization of the Electric Network for Data Communication between the Customer's kWh meter and the Electricity Provider at SMKN 1 Lingsar, Lingsar District, West Lombok Regency (2019)
10. Electrical Installation Techniques and Measurement of Ground Resistance for Touch Voltage Safety for the Community of Semparu Village, Kopang District, Central Lombok Regency (2019)
11. Electrical Installation and Grounding Planning Training in accordance with SNI 0225:2011 (PUIL 2011) For Buildings, For Residents of West Batulayar Village, District (2018)
12. Home Electrical Installation Safety Training and Efforts to Save Electrical Energy for Communities in Bentek Village, Gangga District, North Lombok Regency (2018)

Patents and
proprietary rights

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Important publications
over the last 5 years

1. Prediction of Student Data Needs for Online Lectures on Covid-19 Conditions at the Department of Electrical Engineering, University of Mataram, Journal of Technology and Environmental Science (2021)
2. Mango Characterization Based on Dielectric Value Using Double-Ring Resonator Technique, Journal of Technology and Environmental Science (2020)
3. OFDM System Performance Analysis on AWGN and Rayleigh Channels with Simulink-Based M-QAM and M-PSK Modulation, Journal of Dielectrics (2019)
4. Measurement and Analysis of Voice Service Performance of 3G WCDMA Network Using Term Investigation in Mataram, Journal of Dielectrics (2019)
5. Smart Energy Meter for Electric Vehicle Based on Bluetooth and GSM Technology, Seminar Internasional ICSGTEIS (2018)
6. Desain and Realization of Microstrip Antenna for GPS Antenna Using Proximity Coupled Techniques, 11th International Conference on Telecommunication Systems, Services, and Applications (2017)
7. Classification of Sounds Based on Age Using Mel Frequency Cepstral Coefficient (MFCC) and K-Nearest Neighbor (K-NN), Journal of Dielectric (2017)

Activities in specialist
bodies over the last 5
years

Organisation

Role

Period

FORTEI

Member

2021-2022