



**LIST OF GRADUATE THESES
as of September 2021**

Master of Science in Electrical Engineering Major in Power Systems

- Achanzar, V. M. R. (2020). *Economic Analysis of Transmission Line Substation Equipment Using Statistical Analysis System Jonh's Macintosh Program* [Master's Thesis, MSEE Power System]. School of Graduate Studies, Mapua University.
- Castro, R. C. C. (2018). *Hybrid Particle Swarm Optimization and Gravitational Search Algorithm for Optimal Sizing of Hybrid Renewable Energy Systems* [Master's Thesis, MSEE Power System]. School of Graduate Studies, Mapua University.
- Gapuz, C. May A. (2019). *Implementation of micro wind harnessing technology for Vehicular Airdrag Energy Harvesting System using Wind-induced vibrations.* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Garbin, R. V. (2020). *Short-Term and Medium-Term Load Forecasting using Principal Component Analysis (PCA)-Based Recurrent Neural Network.* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Jaranilla, B. B. (2019). *Determination of Tidal Power Capability of Marinduque Province for Simple Single-Pool Tidal System Barrage Type.* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Manansala, J.C. (2020). *Determination of Optimal Topology for Transmission Networks with Distributed Generation using Optimal Transmission Switching (OTS)* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Mitante, M. I. C. (2020). *Hydro Energy Research Assessment of Selected Sites in Marinduque.* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Pamilar, A. J. (2019). *Grid Tie Supervision and Control System Device with Data Logging Application.* [Master's Thesis, MSEE Power Systems] School of Graduate Studies, Mapua University.
- Suliva, K. M. (2011). *Bayesian Network-based process downtime cost determination of an industrial plant.* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.



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- Vasquez, A. R. G. (2019). *Network modelling for Distribution System on feeder losses using Artificial Neural Network* [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Velasco, J. N. (2019). *Photovoltaic (PV) Power Prediction Based on Artificial Neural Network (ANN) with Activation Function Selection and Feature Reduction Method*. [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Villariña, Karl Joseph C. (2021). *Multi-Machine Transient Stability Study of an IEEE Bus 39 Test Case with Hybrid Distributed Generation using MATLAB*. [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.
- Zipagan, P. J. T. (2018). *Hybrid Solar Energy: Photovoltaic (PV) - Thermoelectric Generator (TEG) - Thermoelectric Cooler (TEC) System Application on Fixed Rooftop Installation*. [Master's Thesis, MSEE Power Systems]. School of Graduate Studies, Mapua University.