



**LIST OF GRADUATE THESES**  
**as of October 2021**  
**Master of Science in Environmental Engineering**

- Aborde, P. A. B. (2015). *Effect of ClO<sub>2</sub> as disinfectant and of ClO<sub>2</sub>-by-Product on Drinking Water Quality Parameters* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Abrantes, R. P. (2005). *Identification of H<sub>2</sub>S monitor sites at Bacon-Manito geothermal production field using industrial source complex (ISC3) air dispersion model* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Agarin, C. J. M. (2021). *Based on Metal Concentrations in Shrimps, Fishes and Water Using Canonical Correspondence Analysis (CCA) Technique* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Aguas, D. V. (2011). *Degradation of dieldrin in wastewater by TiO<sub>2</sub> photocatalysis* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Alamillo, M. A. B. (2002). *The effect of natural degradation on a chemically treated cyanidation tails* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Alcantara, R. T. (2006). *Sorption of mercuric ion (Hg<sup>2+</sup>) by Sargassum cristaefolium: its mechanism and the effect of competing ions* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Alviar, C. E. L. (2017). *The Effects of Biogas Production, BOD and TSS of the Consolidation of Heat and Mixing System in an Anaerobic Digester* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Andra, C. K. A. (2021). *Increased Performance and Antifouling of Mixed-Matrix Membranes of Cellulose Acetate with Hydrophilic Nanoparticles of Polydopamine-Sulfobetaine Methacrylate for Oil-Water Separation* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Apao, M. R. (2008). *Treatment of brewery industry wastewater by bioaugmentation activated sludge process using trichoderma sp and azotobacter sp.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Aquino, R. R. (2003). *Design of an environmental management system for RNR Management Philippines* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.



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- Artuz, M. T. C. (2015). *Comparative Analysis of Biosorption of Copper, Lead and Nickel on Two Different Bacterial Species Supported by Granular Activated Carbon in a Simulated Wastewater*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Arugay, A. N. B. (2004). *Sorption-desorption of lead (II), copper (II) and nickel (II) in multi metal-sargassum biosorption system* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Asetre, I.S. (2020). *Bioelectricity Production and Acetaminophen Degradation in a Dual-Chamber Microbial Fuel Cell using Crabmeat Processing Wastewater as Substrate* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Atregenio, Pinky A. (2020). *Performance of Modified Magnetic Iron and Manganese Oxide (MnFe<sub>2</sub>O<sub>4</sub>) Particles in Removal of Algae From Pond Water During Coagulation* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Balba, T. D. (2007). *Treatment of pulp and paper mill wastewater by bioaugmented activated sludge process using trichoderma sp and azobacter sp*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Barcebal, R. M. G. (2005). *Biological treatment of soft drink wastewater using B. alkalophilus vedder without pre-neutralization treatment*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Bartolome, G. J. C. (2018). *Bioenergy generation and chemical oxygen demand reduction in dual-chamber microbial fuel cell using meat processing wastewater* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Bathan, R. S. (2008). *Bioconversion of water hyacinth (Eichhornia crassipes) at its optimum age into bioethanol via separate hydrolysis fermentation with continuous over liming*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Bongay, D. R. (2011). *Electro-remediation of Cu-contaminated soil using enhancement solutions* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Bosshard, H. F. R. (2016). *Assessment of Indoor Air Pollutants Emitted by a Cookstove Utilizing Charcoal as Fuel* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.



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- Cabico, N. K. L. (2008). *Preparation and characterization of a clay pot filter made from bentonite-rice hull mixture for the removed of e coli in aqueous samples* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Camayra, M. H. (2007). *A study on the synthesis of nanosized zero-valent iron by chemical vapor deposition (CVD)* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Castillo, A. C. (2006). *Improved emulsion breaking for the treatment of bilge water by induced-air flotation* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Cruz, N. K. O. (2012). *TiO<sub>2</sub> coated PVDF-g-AA membranes: analyses of antifouling / self-cleaning, and photocatalytic properties* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Cu, M. P. L. (2007). *In Silico characterizations of the metabolic phenotypes of toluene degradation using pseudomonas putida mt-2.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Cunanan, A. M. (2010). *Photocatalytic reduction of hexavalent chromium using titanium dioxide combined with hydrogen peroxide.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- De Jesus, R. I. A. (2010). *Clean fuel from ozonated biodiesel derived from janitor fish (pterygoplichthys disjunctivus)* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Despa, M. F. (2003). *Design of up flow anaerobic sludge blanket reactor for Maynilad Water Services, Inc.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Eleazar, E. G. (2004). *Water minimization for a copper mill plant using graphical targeting and mathematical programming* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Elemos, M. M. T. (2008). *Chemical pretreatment of weeds (Pennisetum purpureum and panicum maximum) for bioethanol production* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.



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- Endaya, A. D. (2007). *Simultaneous removal of copper and methylene blue dye from wastewater using polysulfone (PSU) –immobilized sangassum-bentonite admix.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Estrellado, A. K. G. (2005). *Identification of non-attainment areas in metro Manila based on the predicted PM10 profile.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Ferrer, P. J. G. (2010). *COD reduction of wastewater from virgin coconut oil manufacturing by Fenon process.* Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Gallarte, B. P. (2014). *Affinity, competitiveness, and selectivity in multi-metal adsorption by sargassum cristaefolium.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Gappe, J. A. (2005). *Wetland model for mercury uptake using vetiveria zizanioides.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Godezano, J. B. (2016). *Adsorption Capacity of E. Coli and S.Epidermidis in the Removal of Cu<sup>2+</sup>, Ni<sup>2+</sup> and Ph<sup>2+</sup> from Simulated Wastewater.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Gonzales, E. C. (2005). *Electrokinetic remediation of mercury (Hg<sup>2+</sup>)- contaminated coal combustion residue.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Gutierrez, F. G. (2006). *Risk assessment of sharps from selected tertiary hospitals in Manila to different risk groups.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Hernandez, E. L. (2016). *Water quality improvement of wastewater from degreaser discharged tank via adsorption process using microwave-assisted carbonized corn cobs.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Ibarra, E. R. G. (2006). *Recovery of lactic acid from simulated waste milk using amine-based solvent extraction.* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.



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**Master of Science in Environmental Engineering**

- Isidro, L. A. O. (2006). *Desorption of Mercuric Ion (Hg<sup>2+</sup>) from Sargassum cristaefolium by Sonication technique*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Jauod, J. M. (2016). *Design and Development of Toward Underwater Platform for Coral Reef Monitoring*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Jover, A. I. (2011). *Adsorption capability of Gmelina arborea bark using crystal violet*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Landayan, R. C. (2002). *Development of practical assessment techniques on the environmental effect and remediation of acid mine drainage* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Leron, R. B. (2004). *Risk assessment framework for heavy metals in a mine tailings impoundment using fugacity/equivalence-based model as pre-screening tool*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Mababa, S. J. A. (2007). *Application of polymer membrane in reducing toxicity of Pasig river sediments using chironomid species*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Malaylay, R. A. (2019). *Assessment of Copper Concentration and Risk Analysis in Surface Sediments of Mogpog River, Marinduque*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Manuel, M. C. E. (2010). *Determination of chiller performance model from in-Situ data as baseline for electricity and carbon emission reduction claims*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Mapua, A. R. (2008). *Removal of dyes from textile wastewater via coagulation by moringa oleifera seeds*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Martin, C. G. (2004). *Electrolytic sequencing batch reactor for piggery wastewater treatment*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Martinez, Karl Mark A.. (2007). *Recovery of water from paper mill wastewater by freeze concentration*. MEN, Mapua Institute of Technology.



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**Master of Science in Environmental Engineering**

- Medrano, K. I. M. C. (2019). *Spatial Distribution and Fraction Determination of Metals on surface sediments in the South and West Bay of Laguna Lake, Philippines* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Mellano, M. E. R. (2015). *Removal of CU (II), Ni (II) and Ph (II) from Aqueous Solution Using Bacterial Biofilm, Supported with Kaolinite Clay*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Monterozo, M. (2014). *Optimization of operational parameters of electrocoagulation for the COD removal of piggery wastewater*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Naguit, A. G. (2006). *Remediation of arsenic-contaminated water by intercalation to a surfactant*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Nery, N. J. R. (2007). *Enhanced biosorption of heavy metal ions (Cu+2 Ni+2) using saccharomyces cerevisiae immobilized on chitin and chitosan*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Olan, A.A.M. (2020). *Removal of Nickel (II) Ions from Synthetic Wastewater by Magnetic Ferromanganese Oxides (MnFe<sub>2</sub>O<sub>4</sub>)* [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Oxales, J. R. M. (2008). *Bioconversion of chemically pretreated water hyacinth (eichhornia crassipes) at its optimum age into bioethanol via separate hydrolysis and fermentation*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Papa, E. F. (2016). *Adsorption of Heavy Metals from Aqueous Solution Using Biochar Derived From Coffee Pulp*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Paronda, G. R. A. (2008). *Flow pattern and heavy metals concentration in Pasig river as affected by seasons and tides*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Puno, A. B. N. (2010). *Photocatalytic degradation of petroleum hydrocarbon-contaminated water using titanium dioxide* [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.



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**Master of Science in Environmental Engineering**

- Reginio, M. J. Q. (2019). *Establishing baseline data on metals concentration in surface sediments of the East and Southeast Bay of Laguna Lake using Modified Bcr Sequential Extraction*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Rodriguez, M. A. L. (2019). *Metal concentrations, fractions and distribution in the sediment of the South Bay of Laguna Lake, Philippines*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Saiyari, Donamel M.. (2012). *Investigation of Environmental Stress Cracking Resistance (ESCR) of recycled plastic aluminates (RPA) as potential geomembrane*. MEN, Mapua Institute of Technology.
- Santos, E. C. C. (2018). *Regeneration of bamboo powder into cellulose-based membrane for water treatment*. [Master's Thesis, MEN], Mapua University.
- Santos, R. G. (2003). *Estimation of consumption of physical resources in a wastewater treatment plant of a personal care and home care manufacturing plant by exergy analysis*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Severino-Almirez, C. C. (2003). *Removal of lead (Pb<sup>2+</sup>) and cadmium (Cd<sup>2+</sup>) from wastewater via sorption on milled brown seaweeds (sargassum ilicifolium)*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Shakeri, H. (2011). *Thickness optimization of Recycled Plastic Aluminates (RPA) as a potential geomembrane*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Sia, J. C. J. (2008). *Production of bioethanol from chemically pretreated weeds: talahib (saccharum spontaneum) and cogon (imperata cylindrica)*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Subillaga, M. G. A. (2008). *Effects of lime remediation on the bioavailability of Cu<sup>2+</sup> and Pb<sup>2+</sup> in Pasig river sediments*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Valerio, M. C. A. (2011). *Enhancement of phosphorus removal by microwave chemical pretreatment on dairy manure*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.



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**as of October 2021**  
**Master of Science in Environmental Engineering**

- Venturina, E. T. J. (2008). *Bioconversion of waste pineapple core and its undiluted juice into bioethanol via enzymatic saccharification and fermentation*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.
- Villavicencio, M. S. (2019). *Effects of suspended sediment load on the turbidity and total suspended solids level in downstream Morong River, a tributary to Laguna de Bay*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua University.
- Zantua, M. M. (2003). *Augmentation of the efficiency of a heavily loaded aerobic reactor using polyethylene grass matting as fixed-growth media*. [Master's Thesis, MEN]. School of Graduate Studies, Mapua Institute of Technology.