



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

**Master of Science in Civil Engineering Major in
Construction Engineering Management**

- Andal, E.R. (2020). *Identifying risks in implementing sustainable building materials in condominium fit-out project using analytic hierarchy process* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Alejandrino, D. C. (2019). *Achieving sustained success: modelling maturity performance level of ready mixed concrete plants in different scale categories through Quality Management approach* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Cabalag, M. V. (2018). *Variation Prognostic Model on Port Infrastructures: Employment of Principal Component Analysis for Factor Extraction Instigating Disparity on Planning and Implementation Phase* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Cabunas, J. T. (2019). *Exploratory Factor-Item Analytic Approach for Construction Project Cost Overrun using Oblique Promax Rotation for Predictors Determination* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Canda, C.M.R. (2020). *Sustainable Tool for Construction Project: an Innovative Project Planning and Control System* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Catan, C. B. (2015). *The Expectations of the Philippine Construction Industry on the Entry-level Engineer's Ability to Use the Appropriate Techniques, Skills, and Modern Engineering Tools Necessary for the Practice of Civil Engineering* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua Institute of Technology.
- Cervantes, B. A. (2017). *Analyzing Factors Affecting Skilled Workers Retention and Turnover: The Case of Marikina Construction Companies* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua Institute of Technology.
- Cruz, C.A.S. (2020). *A Multi-Step Feed-Forward Back propagation Neural Network-Based Model: Predicting Project Cost Overrun Rating Factors on Construction Labor Productivity* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- De Guzman, F.I.R. (2020) *Alternative benefit over cost ration table for flood control projects: application of Cost-Benefit Analysis* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.



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- Fernandez, J. B. (2021). *Construction Analytics: Predicting the Project Performance for KPI Dashboard Development using Levenberg-Marquardt Algorithm* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Gatbonton, R. S. (2018). *Analysis of Stabilized Rammed Earth with Elephant Grass (Pennisetum Purpureum) Fiber for Improving Walls of Bungalow Houses* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Jinang, R. S. (2020). *Schedule Delay Analysis of Road Construction Projects in Marinduque* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Juan, J. A. P. (2014). *Comparative Analysis of Sustainable Pitched Roof Cladding Material* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua Institute of Technology.
- Lindo, M. K. M. (2019). *Returning Green through Engineering: Utilization of Monte Carlo Simulation in Assessing Potential Lifetime Value of Conventional and Sustainable Buildings* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Manansala, E. V. C. (2019). *Fully Unitized Curtain Wall Façade System Cost, Benefits, and Sustainability Analysis for Green Building Development* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Mijares, M. A. M. (2019). *Predictive Mathematical Model for Productivity Rate: A Quest for Best Manning Mechanism for Reinforced Concrete Works* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Namo, S.M.L. (2020). *Mitigating factors on the causes of delays in construction of flood control projects in Laguna using analytical hierarchy process* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Nunag, M. P. (2021). *Construction Worker Headcount System for Cost Efficient Planning of Residential Projects in Pampanga* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Panopio, A.M. (2019). *Identification of the significant factors causing cost overruns in Small and Medium Enterprise (SME) based construction firms using Analytical Hierarchy Process (AHP)* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.
- Polinga, I. M. (2018). *Optimization Analysis on Fabricated Precast Concrete Mass Housing Projects*



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using AHP Method [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.

Robles, K. P. V. (2018). *Consideration of Risk Impact Analysis in determining the contract duration of DPWH* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.

Romero, A. J. M. (2018). *A Pre-Qualification Selection of Multi-criteria Decision Model for Concrete Hollow Block Supplier Using Analytic Hierarchy Process (AHP) based from AAA Contractors in Pampanga* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.

Salvador, R. A. (2018). *Empowerment for operational works frameworks for female engineers in the assessment of leadership competencies in the construction industry* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.

Santiago, K. J. B. (2019). *Assessment of green concrete hollow blocks utilizing basic oxygen furnace steel slag* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.

Shakeri, M. P. (2020). *Significant Factors to motivate SME-based Construction Firms to implement ISO 9001:2015 in the Residential Buildings in Laguna* [Master's Thesis, MEP-IE]. School of Graduate Studies, Mapua University.

Tuddao-Calapini, F. L. R. (2020). *General contractor's estimate of preliminaries: manpower loading breakdown of cost system for the duration based fundamental needs of mobilized staffs in Cagayan* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.

Untalan, L. H. (2019). *Development, Design and Evaluation of 'Green Earth Blocks' with the Utilization of Rice Husk Ash and Lahar* [Master's Thesis, MSCE CEM]. School of Graduate Studies, Mapua University.