Jurnal Ilmiah

DINAMIKA REKAYASA

p-ISSN 1858-3075 | e-ISSN 2527-6131

Engineering Faculty, Jenderal Soedirman University (UNSOED)
Jln. Mayjend. Sungkono Km. 5 Blater, Purbalingga, Jawa Tengah
Website: http://jurnal.dinarek.unsoed.ac.id
e-mail: dinarek@unsoed.ac.id
Tlp./Fax. +62 281 6596801

DINAMIKA REKAYASA is a Scientific Journal for the publication of research results and scientific development in the field of engineering science, including: Electrical Engineering, Computer Engineering/Informatics, Industrial Engineering, Civil Engineering, and Geological Engineering. Published twice a year (January and July).

Editorial Board

HEAD OF INSTITUTION

Dean of the Engineering Faculty, UNSOED

EDITOR IN CHIEF

Ir. Hery Awan Susanto, ST., M.T., IPU (Jenderal Soedirman University)

MANAGING EDITOR

Dr. Ir. Mulki Indana Zulfa, ST., MT., IPM. (Jenderal Soedirman University)

ASSOCIATE EDITOR

Prof. Mohd Rosli Hainin (Universiti Teknologi Malaysia)
Tigar Putri Adhiana ST., MT., (University of Liverpool)
Maulana Rizki Aditama, ST., M.Sc. (University of Manchester)
Ts. Dr. Haryati Yaacob (Universiti Teknologi Malaysia)
Iswandaru Widyatmoko, Ph.D (AECOM Limited United Kingdom)
Dr. Sri Gusty (Universitas Fajar)
Dr. Harisma (Universitas Haluoleo)
Bagus Hario Setiadji, Ph.D (Universitas Diponegoro)

EDITORS

Dr. Ryan Dwi Wahyu A, S.T, M.T. (Jenderal Soedirman University)
A'isya Nur Aulia Yusuf, S.T, M.T. (Jenderal Soedirman University)
Elsa Sari H. N., S.T, M.T. (Jenderal Soedirman University)
Devi Astri N., S.Pd, M.Kom. (Jenderal Soedirman University)
Artanti Kusuma A, S.T, M.Sc. (Jenderal Soedirman University)
Zakkiyan Zain A, S.T, M.Sc. (Jenderal Soedirman University)
Ir. Safety Husna P, S.T, M.T. (Jenderal Soedirman University)
Dandun Mahesa Prabowoputra, S.T., M.T. (Jenderal Soedirman University)
Muhammad Syaiful Aliim, S.T, M.T. (Jenderal Soedirman University)

TABLE OF CONTENTS

Characterization of Rare Earth Elements Enrichment Based on Coal Calorific Value Variations

Yudi Arista Yulanda, Wahyudi Zahar, Muhammad El Hakim, Jarot Wiratama, Putri Abby Larassati 136-145

Characterization of Groundwater Facies Using The Piper Diagram In The Rakihan Lake Area, Sindang Danau District, South Ogan Komering Ulu Regency, South Sumatra Province

Dianita Septia Wardani, Budhi Setiawan, Dede Nurohim 146-156

Redesign of A Device to Convert Fog Into Water Using Theory of Inventive Problem Solving and Kano Methods

Indro Prakoso, Ardi Jumanto, Bhre Wangsa Lenggana, Ali Alhamidi, Sugeng Waluyo ..157-167

Evaluation of Soil Stiffness Parameters for Bored Pile Analysis Using Finite Element Method and Load–Settlement Curves

Wawan Azwansyah, Roesyanto, Syiril Erwin Harahap 168-178

Evaluation of Operation and Maintenance Performance for The Community-based Drainage System in Pengambengan Bali

I Gusti Ngurah Putu Dharmayasa, Putu Indah Dianti Putri, Andry Dwi Wibowo, Irma Suryanti 179-189

Decision Support System for Determining Priority Pilgrims at PT Hafiz Wisata Darussalam Based on The C4.5 Algorithm and Profile Matching

Herlina Dianaria, Ermatita, Anggina Primanita 190-201

Product Specific Forecasting and Capacity Allocation: A Hybrid Model for Profit Optimization in Multi Variant Food Manufacturing

Ichlasul Hadi, Nur Islahudin, Dewa Kusuma Wijaya 202-213

Evaluation of Civil Engineering Students Readiness and Competency for Building Information Modeling (BIM) Implementation in The Workplace

Aura Nita Mufidah, Redityo Januardi, Dani Nugroho Saputro.....214-233

Thermal Evaluation of Brick Wall Configurations Using FEM Simulation and Economic Analysis for Tropical Building Applications

Eva Priyanti, Indra Rio Saputro 234-248

The Determination of Disaster-Prone Areas Based on a Multifactor Approach on the Manglayang Catastrophe Volcano Edifice, West Java, Indonesia

Putu Ayu Andhira, Faishal Aziz, Muhammad Ghozi, Teuku Yan Waliana Muda Iskandarsyah, Johanes Hutabarat, Hendarmawan 249-262

Depositional Environment Reconstruction and Diagenetic Evolution of Marly Carbonates in the Kepek Formation Based on Microfacies Analysis from the Rambutan River, Gunungkidul

Lathifah Kusuma Melati, Istiana, Mochammad Prahastomi 263-281

Comparison of Cost and Time Efficiency Between Ruspin Houses and Conventional Houses Based on BIM Models

Rizka Aprilia Sari, Bagyo Mulyono, Redityo Januardi..... 282-291

Opening Statements

Praise our gratitude to God Almighty, who has bestowed His grace so that the Jurnal Ilmiah Dinamika Rekayasa Volume 22, Number 2, July 2026, can be present to readers. This edition features 12 articles from research in Civil Engineering, Electrical Engineering, Geological Engineering, Industrial Engineering, Informatics Engineering, and Mechanical Engineering. All articles published in 8th June 2026, have passed the review process. The management of articles has followed the standards of national accredited journal governance, and every process is recorded in the Open Journal System (OJS).

We would like to thank the bestary partners who have reviewed the article so that the quality of articles published by the Jurnal Ilmiah Dinamika Rekayasa can be guaranteed with the originality of the work, the novelty, and the quality of the writing. We also thank the authors who have followed every stage of the article management process and entrusted the publication of their research results in the Jurnal Ilmiah Dinamika Rekayasa.

Finally, the research articles published in the Jurnal Ilmiah Dinamika Rekayasa Volume 22 Number 2 July 2026, are expected to be useful references for readers and contribute to the advancement of science and technology.

Purbalingga, July 2026
Best regards