

## Editor in Chief

Ratna Mustika Yasi, M.Pd.

University of PGRI Banyuwangi

## Editorial Board Member

Adi Mulyadi, M.T.

University of PGRI Banyuwangi

Rezki Nalandari, M.M.

University of PGRI Banyuwangi

Charis Fathul Hadi, M.Pd.

University of PGRI Banyuwangi

Adi Pratama Putra, M.T.

University of PGRI Banyuwangi

Adi Mulyadi M.T.

University of PGRI Banyuwangi

Riska Fita Lestari, M.Pd.

University of PGRI Banyuwangi

Anas Muhktar, M.T.

University of PGRI Banyuwangi

Widhi Winata Sakti, S.T., M.T.

University of PGRI Banyuwangi

Muhamad Zainal Roisul Amin, S.T., M.T.

University of PGRI Banyuwangi

## Mitra Bestari (Reviewer)

Dr. Ir. Nurida Finahari, M.T.

University of Widya Gama Malang

Kasta Gurning, M.Sc. M.Pd.

STIKES Senior Medan

Dr. Ikhwanul Qiram, M.T

University of PGRI Banyuwangi

Dr. Ir. Gatut Rubiono, M.T.

Universitas PGRI Banyuwangi

Dr. Mohd Lizam B. Mohd Diah

Universiti Tun Hussein Onn Malaysia

Prof. Drs. Yoyok Soesatyo, S.H, M.M, Ph.D.

Universitas Negeri Surabaya

## About the Journal

Journal of Educational Engineering and Environment or JEEE for short is a two-month periodical journal (May and December) that contains various articles in the form of research, systematic reviews, and case studies in the fields of industrial engineering, mechanical engineering, electrical engineering, environmental engineering, civil engineering, and engineering education. The publication of the research journal JEEE aims to distribute the results of thoughts, conceptual ideas, case studies and research results. Authors who wish to submit their manuscripts to JEEE editors must adhere to the writing guidelines. If the submitted manuscript does not comply with the guidelines or is written in a different format, then the manuscript will

JEEE, December 2023, e-ISSN: 3025-7956, Banyuwangi, Indonesia

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).

be REJECTED by the editor before further review. Editors will only accept manuscripts that meet the specified format. All submitted manuscripts must be original and have never been published before and are not being submitted for publication elsewhere. All manuscript submitters must read and approve the contents of the manuscript, in addition to which any manuscripts from experimental studies reported have been carried out with the approval of the ethics committee and do not smell of sara. Articles that have been received by the editor will be processed according to the stages of the journal manager.

Articles will be assessed for due diligence by members of the editorial board and then submitted for external and internal reviewers. The selection of articles published in JEEE uses a double-blind peer-review system. The review process is carried out within a maximum of 1 month for one review. Manuscripts are submitted to peer-reviewed according to the field of research, and the editorial board makes decisions based on peer-reviewed reviews. Decisions by the editorial board can be classified into 4 categories, articles are accepted without improvement (Accepted Submission), articles need revision from the author before being accepted (Required Revision), authors must make fundamental improvements and the article will go through the review process again (Resubmit for Review), and articles cannot be accepted for publication (Decline Submission).

## Focus and Scope

Journal of Educational Engineering and Enviroment (JEEE) is a research journal that contains various articles in the form of research, systematic reviews, and case studies published by the Faculty of Engineering, PGRI Banyuwangi University.

The Journal of Educational Engineering and Environment provides a forum for the publication of articles that accommodate publications in the following fields: Industrial Engineering, Mechanical Engineering, Electrical Engineering, Environmental Engineering, Civil Engineering, Engineering Education. The author has one month to improve the article if it exceeds that limit automatically being deemed void and unpublished. The return of an article to the author for improvement does not mean that the article has been accepted for publication. After the revised text is received, a decision is made by the editorial board. The author should return the corrected text, along with responses to all comments from the reviewer. Simple corrections to text, images, or tables are not allowed at the final review stage.

## Call For Paper

JEEE, December 2023, e-ISSN: 3025-7956, Banyuwangi, Indonesia

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).



# Journal of Educational Engineering and Environment

E-ISSN : 3025-7956

Faculty of Engineering  
University of PGRI Banyuwangi



JEEE is a research journal that accepts scientific articles from experts and researchers from both industry and academia. Journal of Educational Engineering and Environment is a periodical journal published 2x a year in the months (May and December) which contains various articles in the form of research, systematic reviews, and case studies with a focus on industrial engineering, mechanical engineering, electrical engineering, environmental engineering, civil engineering, and engineering education as well as related topics. The publishing schedule is once every six months in May and November.

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).

## Author Fees

To accompany open access policies, the Journal of Educational Engineering and Environment (JEEE) implemented a new policy for article processing fees. Now it is IDR 250,000,-. This policy will remain in place as long as the Journal of Educational Engineering and Environment (JEEE) has sufficient funding to publish. Of course, donations are very much expected. Please contact [ratnamustika@unibabwi.ac.id](mailto:ratnamustika@unibabwi.ac.id) com if you would like to donate.

## Open Access Policy

The journal provides direct open access to its content on the principle that making research freely available to the public supports a greater global exchange of knowledge. This journal is an open access journal which means that all content is freely available free of charge to users or institutions. Users are allowed to read, download, copy, distribute, print, search, or link to full-text articles in this journal without first seeking permission from the publisher or author. The Journal of Educational Engineering and Environment (JEEE) is an open-access journal whose content is free. Users are allowed to read, download, copy, distribute, print or search for full-text articles in this journal as well as link to them without the prior consent of the editor or author. Reuse of the work must be carried out in accordance with the terms of the license used: The Journal of Educational Engineering and Environment (JEEE) does not charge any fees either for the submission of manuscripts or for the publication of its articles.

As an open access journal, all content is freely available at no cost to their users or institutions. Users are allowed to read, download, copy, distribute, print, search, or link to the full text of articles in this journal without the prior permission of the publisher. The author who publishes in this journal agrees to the following terms: 1. The author may enter into a separate additional contractual arrangement for the non-exclusive distribution of the journal-published version of the work (for example, posting it to an institutional repository or publishing it in a book), with recognition of its early publication in this journal. 3. Authors are permitted and encouraged to post works online (for example, in institutional repositories or on the author's website)

JEEE, December 2023, e-ISSN: 3025-7956, Banyuwangi, Indonesia

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).

before and during the submission process, as they can lead to productive exchanges, as well as earlier and larger excerpts of your published work are free to: Share — copy and redistribute material in any medium or format. Adapt — remix, transform, and build on top of material for any purpose, even commercially.

## Author Guidelines

Articles to be published in the (JEEE) Journal of Educational Engineering and Environment must meet the following conditions:

### Article Title

The title of the article is capitalized in each word and does not exceed 14 words. The writing of the title is not recommended in the form of a question.

### Name and affiliation of the author

The name of the author and affiliate should be clearly written under the title can be seen on the JEEE TEMPLATE. If the author is more than 1 then the correspondence of the article is only done for the first author by including the email address in the city section of the author's correspondence. The author's affiliation is written in full in the form of the author's agency and address. For authors over 1 and having different affiliations then all affiliates should be written in order.

### Abstract

Abstracts are written in English English Abstracts and Indonesian both must be written if the author writes the script in Indonesian. Abstract consists of a maximum of 200 words. Do not change the writing format provided.

### Outline Manuscript

In general, articles published in the Journal of Urban Development / JPK contain 6 parts (in addition to abstracts), namely: (1) Introduction, (2) Situation Analysis, (3) Solutions and Outputs, (4) Activity Methods, (5) Conclusions, and Acknowledgments and References. Each of the sections will be described in more detail as follows:

JEEE, December 2023, e-ISSN: 3025-7956, Banyuwangi, Indonesia

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).

**Introduction.** Contains background and review of previous research, hypotheses (if any), and research objectives. The introduction must be able to show the gaps and existence of science that describes the quality, significance, and novelty of an idea.

**Method.** This chapter (for research articles) describes the design and research methods clearly and concisely written with reference to its literature. The methods section should describe the design, population, selection of research subjects or samples, data collection methods and instruments used, and methods of data analysis. The explanation of the method should be brief and clear that allows other researchers to repeat. If the method (including statistical analysis) used is new or not yet widely used, then it should be written with reference to the library.

**Results and Discussion.** In the results section, the author must review the interpretation of each form of the result, both in the form of tables and images. Narrative interpretation explains the meaning of the data and not the repetition of the contents of an image or figure. This chapter (for research articles or case reports) may contain a maximum of 6 tables and or images/graphs. Each table is numbered and a brief title according to the order in the manuscript, and each column is assigned a short subtitle. The title of the table and the figure should be able to describe its contents.

**Conclusion.** This section should clearly state the main conclusions of the study and provide a complete explanation of the significance of this study and releva

## About This Publishing System

The categories that JEEE uses for the publication of reviewed manuscripts are:

**Accept Submissions :** This article is suitable for publication in its present form.

**Revision Required :** Any necessary changes are minor; The editor will verify that the author made the suggested changes.

**Resubmit for Review :** Articles are acceptable for publication provided there are significant changes, as indicated by the comments below. Revisions should be reviewed.

**Resubmit for Other Places :** Articles are better suited for other journals.

**Reject Submission :** This article is not suitable for publication on JEEE.

**See Comments :** Reviewers cannot select any of the above.

Publication Frequency Journal of Educational Engineering and Environment (JEEE) is a scientific journal in the field of containing information about ideas, implementation and achievements of research activities in the field of engineering and engineering education. The Journal of Educational Engineering and Environment (JEEE) accommodates publications in the field of Technology and other applied sciences that discuss

JEEE, December 2023, e-ISSN: 3025-7956, Banyuwangi, Indonesia

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).



# Journal of Educational Engineering and Environment

E-ISSN : 3025-7956

Faculty of Engineering  
University of PGRI Banyuwangi



including: Industrial Engineering, Mechanical Engineering, Electrical Engineering, Environmental Engineering, Civil Engineering, and Engineering Education in the fields of Technology and Applied Engineering. The journal is published periodically 2 (two) times a year in May and December.

## Jurnal Contact

Jl. Ikan Tongkol No.22 Kertosari Banyuwangi

## Principal Contact

Ratna Mustika Yasi

Universitas PGRI Banyuwangi

Phone +6281231762092

[ratnamustika@unibabwi.ac.id](mailto:ratnamustika@unibabwi.ac.id)

## Support Contact

Adi Mulyadi

Phone +6282334121235

[adimulyadi@unibabwi.ac.id](mailto:adimulyadi@unibabwi.ac.id)

JEEE, December 2023, e-ISSN: 3025-7956, Banyuwangi, Indonesia

For further information, please contact the JEEE management via email [jeeebwi@gmail.com](mailto:jeeebwi@gmail.com).

## Table of Content

No	Judul	Page
1	Viscosity Test as an Initial Parameter for Handling B3 Liquid Waste in Fuel  Restiani Sih Harsanti, Reny Eka Evi Susanti, Ratna Mustika Yasi	23-26
2	Study of the Use of Letter and Number Characters with Different Font Sizes in Running Text on Apparent Power  Mohammad Sholahuddin Wahid, Ratna Mustika Yasi	27-31
3	The Effect Of Use Of Basic Electricity Trainer Learning Media On Learning Outcomes  Bangun Setywan, Bintang Wahyu Hakim	32-36
4	Study of the Corrosion Speed of Nails in Agar- Agar Media  Arwan Mashuri, Riko Rayhan Radite Putra Wibowo, Luki Pratama, A. Bakoh Adi Anggoro, Ilyas Faiz Tsalits	37-40
5	Electric-Based Vehicle Control System with Modified Half-Wave Rectifier Circuit to Increase Battery Power Efficiency  Arif Firmansah, Adi Mulyadi	41-46