



## Title of the Article is Written Here

Irwansyah <sup>1\*</sup>, Nurul Fitriyani <sup>2</sup>, Muhammad Rijal Alfian <sup>3</sup>

<sup>1,3</sup> Department of Mathematics, Universitas Mataram, Indonesia

<sup>2</sup> Department of Statistics, Universitas Mataram, Indonesia

\*Corresponding author: [eigen@unram.ac.id](mailto:eigen@unram.ac.id)

### ABSTRACT

The abstract begins with the word Abstract which is bolded in Times New Roman 10 pt font. The description in the Abstract uses Times New Roman 10 pt typeface and single spacing. The length of the abstract is between a maximum of 250 words and explains the contents of the article in a concise but clear manner. The abstract is written in 1 (one) paragraph and ends with keywords containing a maximum of 5 keywords. The abstract should be written no more than 250 words. The abstract must contain the background, research objectives, methods used, research results, and implications of these results. Keywords should be written once only after the abstract has been written in English.

**Keywords:** Write four to five keywords here

Received : day-month-year;

Revised : day-month-year;

Accepted : day-month-year;

Published : day-month-year;

DOI: <https://doi.org/10.29303/emj.vxiy.xxx>

This work is licensed under a [CC BY-NC-SA 4.0 International](#) license

## 1. Introduction

This journal template is used for authors interested in submitting their articles to the Eigen Mathematics Journal. Latex template is used; therefore, authors are expected to use it in the article submission.

Eigen Mathematics Journal accepts articles in the fields of mathematics, namely **Mathematical Analysis, Applied Mathematics, Algebra, Statistics, and Computational Mathematics**.

The main part of the article consists of **Introduction, Research Method (optional), Result and Discussion, Conclusion, Acknowledgement (if any), and References**. The main part of the paper is divided into sections and sub-sections. In the Methods and Results, the author can divide the section according to the way the authors want to present the article. For example, in the method section, the section title does not have to be METHODS but can be divided into "Mathematical Model Formulation", "Stochastic Model", "Sensitivity Analysis" and others. In the results section, the author can also split into sections according to the story of the article that the author wants to convey. In other words, this division is not rigid as long as it can describe the purpose of writing the article well.

## 2. Research Methods (Optional)

The research method contains explanations in the form of paragraphs about the research design or descriptions of the experimental settings, data sources, data collection techniques, and data analysis conducted by the researcher. This guide will explain writing headings. If your headers exceed one, use the second level of headings as below.

## 3. Result and Discussion

Writing the results and discussion can be separated into different subs or can also be combined into one sub. The summary of results can be presented in the form of graphs and figures. The results and discussion sections must be free from multiple interpretations. The discussion must answer research problems, support, and defend answers with results, compare with relevant research results, state the study's limitations, and find novelty.

### 3.1. Manuscript Preparation

The manuscript must be written in English. The writing of the paper should be brief, concise, and clear using standardized language writing rules in English. The paper should be submitted in PDF form. When submitting the revised version, the author(s) should also submit the source file/editable files. We also accept articles in Microsoft Word format, with an **additional fee** applied for format conversion.

### 3.2. Title of the article

The title should be short and should not exceed 15 words. Title uses 17pt font size and Times New Roman type font.

### 3.3. Authors and Affiliations

Authors should provide their full name, affiliation (department and university), and country. Avoid using a mailing address. Corresponding authors must provide an active email address.

### 3.4. Contents of the Article

The main part of the article consists of `\textbf{Introduction, Method, Results, Discussion and Conclusion}`. The main part of the paper is divided into sections and sub-sections. In the Methods and Results, the author can divide the section according to the way the authors want to present the article. For example, in the method section, the section title does not have to be METHODS but can be divided into "Mathematical Model Formulation", "Stochastic Model", "Sensitivity Analysis" and others. In the results section, the author can also split into sections according to the story of the article that the author wants to convey. In other words, this division is not rigid as long as it can describe the purpose of writing the article well.

### 3.5. Technical writing

Some writing techniques that need to be considered by the author are as follows

- Make sure to use standard English. The authors should check for spelling and grammar. For the spelling, we use the American English.
- Eigen Mathematics Journal uses Times New Roman font with size 10 and single spacing.

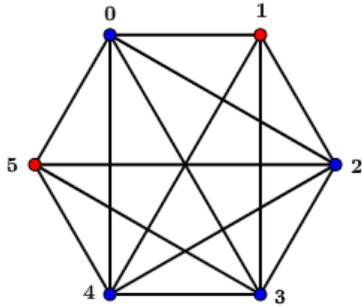
### 3.6. Tables and Figures

Table numbering follows the order of table appearance, i.e. 1, 2, and so on. Cite or refer to your table using `\verb\ref{table_label}`: For example `Table~\ref{table:1}`. The same applies to figures, i.e. `\verb\ref{figure_label}`. For example `Figure~\ref{fig:grafZ6}`. Table captions are placed above the table while figure captions are placed below the figure.

**Table 1.** Description of the parameters and values

Parameter	Description	Values	Units	Refs.
$\Lambda_h$	Describe here	145,685	$Month^{-1}$	

$\mu_h$	Describe here	$\frac{1}{12 \times 65}$	$Month^{-1}$	
$\delta$	Describe here	1	$Month^{-1}$	
$b$	Describe here	2.8	$Month^{-1}$	
$P_h$	Describe here	0.54	N/A	Fitting



**Figure 1.** Prime Coprime Graph for  $Z_6$

### 3.7. Mathematical Equations

The numbering of mathematical equations follows the order of table appearance, i.e. 1, 2, and so on. This is similar to the numbering of tables and figures, i.e. `\verb|ref{equation_label}|`. For example, Equation (1)

$$\rho = \frac{\vec{E}}{J_c(T=const) \left( P \left( \frac{\vec{E}}{E_c} \right)^m + (1-P) \right)} \quad (1)$$

Theorem, Lemma, Proposition, Corollary and proof are written using the following format

`\begin{theorem}\lemma\proposition\corollary}`

*your theorem here*

`\end{theorem}\lemma\proposition\corollary}`

`\begin{proof}`

*your proof*

`\end{proof}`

For example

**Lemma 3.1.** [1] For real numbers  $a, b, c$  and  $d$ , and an  $n \times n$  matrix  $J_n$  in which all entries are 1, then

**Theorem .3.2.** [2] The complete graph  $K_5$  and the complete bipartite graph  $K_{3,3}$  are non-planar.

**Proof.** See [3]

## 4. Conclusions

The conclusion should address the research problem and objective. State the importance of the research and the implications. Do not recapitulate the results but make statements, and use compelling statements, avoiding the word "maybe," etc. Write the conclusion of your paper in narrative/paragraph form if only one concluding statement or give the numbering if needed.

## Acknowledgements

Acknowledgments are written at the end of the article. Acknowledgments can be given to individuals or institutions that contributed to the writing of this article but cannot be used as authors.

## 5. References

References are written using IEEE style. The author is expected to use reference manager BibTeX for articles written using Latex. For example, see `\verb|refs.bib|` file. Writing books can be like how to write references [4]. How to write references from proceeding like [5] in the reference section. How to refer to articles like [3],[5]–[7]. How to write references from websites such as [8]. Authors are required to write the DOI or link from the article in the reference. The references used are current references. Older references are allowed for references that discuss key theories used in the analysis in the paper.

### REFERENCES

- [1] M. U. Romdhini, S. Salwa, and A. Abdurahim, "Szedged and Padmakar-Ivan Energies of Non-Commuting Graph for Dihedral Groups," vol. 20, no. 5, pp. 1183–1191, 2024, doi: <https://doi.org/10.11113/mjfas.v20n5.3629>.
- [2] A. Adhikari and S. Banerjee, "Prime coprime graph of a finite group," *Novi Sad J. Math*, vol. 52, p. 11151, 2021, doi: <https://doi.org/10.30755/NSJOM.11151>.
- [3] J. A. Bondy and U. S. R. Murty, *Graph theory*. Springer Publishing Company, Incorporated, 2008. doi: <https://dl.acm.org/doi/abs/10.5555/1481153>.
- [4] D. B. West and others, *Introduction to graph theory*, vol. 2. Prentice hall Upper Saddle River, 2001.
- [5] R. Juliana, I. G. A. W. Wardhana, and I. Irwansyah, "Some Characteristics of Prime Submodules of Gaussian Integer Modulo over Integer," in *Proceeding International Conference on Science (ICST)*, 2020, pp. 209–213. doi: <https://eprints.unram.ac.id/36079>.
- [6] M. R. Gayatri, R. Fadhilah, S. T. Lestari, L. F. Pratiwi, A. Abdurahim, and I. G. A. W. Wardhana, "TOPOLOGY INDEX OF THE COPRIME GRAPH FOR DIHEDRAL GROUP OF PRIME POWER ORDER," *J. Difer.*, vol. 5, no. 2, pp. 126–134, 2023, doi: <https://doi.org/10.35508/jd.v5i2.12462>.
- [7] B. Imran, L. D. Samsumar, A. Subki, Z. Zaeniah, S. Edu, and M. R. Alfian, "Combination of gray level co-occurrence matrix and artificial neural networks for classification of COVID-19 based on chest X-ray images," *Int J Artif Intell*, vol. 13, no. 2, pp. 1625–1631, 2024, doi: <http://dx.doi.org/10.11591/ijai.v13.i2.pp1625-1631>.
- [8] World Health Organisation, "Dengue." 2022.