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Article Title Written in Times New Roman Font, Justified Alignment, 12pt Bold

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***Abstract* (*10 bold Italic*)**

Abstrak diisi dengan urutan latar belakang, pernyataan masalah, state of the art atau gap analysis, tujuan penelitian, metode penelitian, hasil penelitian dan kesimpulan. Abstrak ditulis dalam bahasa Inggris. Jumlah kata maksimal 300 kata. Abstrak dapat langsung dibuat di dalam kolom ini.

Keywords: *(maksimal 5 kata) (diurutkan sesuai abjad) (dipisahkan dengan semicolon ;)*

Abstrak (10 bold)

Abstrak diisi dengan urutan latar belakang, pernyataan masalah, *state of the art* atau *gap analysis*, tujuan penelitian, metode penelitian, hasil penelitian dan kesimpulan. Abstrak ditulis dalam bahasa Indonesia. Jumlah kata maksimal 300 kata. Abstrak dapat langsung dibuat di dalam kolom ini.

Kata kunci: (maksimal 5 kata) (diurutkan sesuai abjad) (dipisahkan dengan semicolon ;)

1. Introduction

The introductory chapter is filled with a brief statement about the background of the research, problem statement, relevant literature review [as references], state of the art or gap analysis (reasons for conducting the research) and research objectives. This chapter begins on a separate line after the abstract and keywords.

1.1 General Format for Writing Articles

Articles are written on A4 page size with Top margin: 25 mm; Left margin: 20 mm; Bottom margin: 25 mm; Right margin: 20 mm. Times New Roman font with a size of 12 pt for the article title and 10 pt for non-article titles. Spacing 1.5, After 0, Before 0. Maximum 7 pages. The contents of the article are adjusted to the IMRAD format (Introduction, materials and methods, Results, discussion + conclusion).

2. Material and Method

This chapter contains important research data, equipment used and research location. The research method used is explained briefly (can be made in the form of a flow chart). New or modified methods should be explained in detail.

2.1. Format for writing equations

Each equation is written in the center of the column and given an equation sequence number written in brackets and placed at the end of the right margin. Equations must be written using the Equation Editor in Ms. Word. The following is an example of an equation writing format [1].

$$P_1 + \frac{1}{2}\rho v_1^2 + \rho g h_1 = P_2 + \frac{1}{2}\rho v_2^2 + \rho g h_2 \quad (1)$$

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3. Results and Discussion

The important results of the research should be stated clearly and illustrated using tables and figures. The discussion should be in accordance with the interpretation of the results, clear in detail and must be logical. For the format of writing tables and figures please see the following example:

3.1. Format for writing table

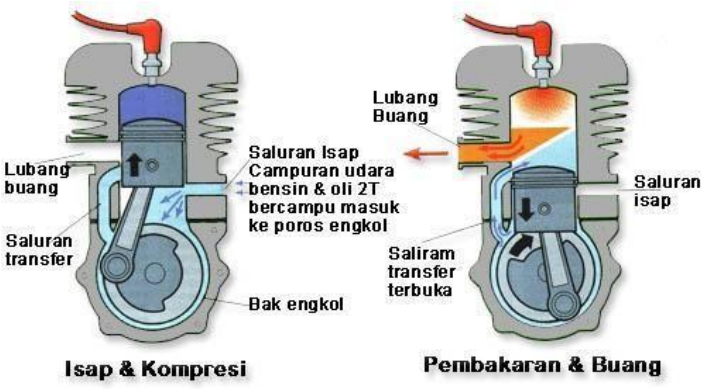
The table title is written in bold (Table 1. …..), and placed above on the left side. Only the horizontal border is displayed. Every time a table is displayed, there must be a reference in the narrative section, for example "…more clearly can be seen in Table 1".

Table 1. List of article themes in the Semarang State Polytechnic Mechanical Engineering Journal

No.	Topic
1.	Design
2.	Strength Material
3.	Thermodinamic
4.	Manufacturing process
5.	Mechatronica
6.	Energy

3.2. Format for writing images

There are no standard rules for the appearance of images, but the point is that they must be clear and legible, not too big and not too small. Every time an image is displayed, there must be a reference in the narrative section, for example "... more clearly can be seen in Figure 1". The Image Title is placed in the middle below the image.



(a) **(b)**

Figure 1. Types of internal combustion, (a) suction and compression and (b) Burning and disposal

3.3. Format of writing graph

There are no standard rules for the appearance of graphic images, but the point is that they must be clear and readable, not too big and not too small. Every time a graphic image is displayed, there must be a reference in the

narrative section, for example "... more clearly can be seen in Figure 2", the graphic image is displayed without a border.

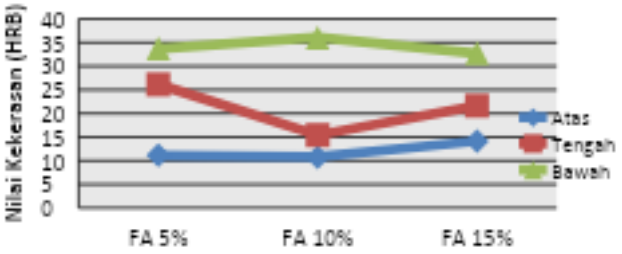


Figure 2. Graph of hardness testing

4. Conclusion

A summary of the basic research results that can describe the research results. This section should not duplicate the contents of the abstract.

Acknowledgement

Acknowledgements and information regarding funding sources (if any).

References

Reference statements in the text must be presented in numerical order and must be written in square brackets, such as [1, 5] (Vancouver style). References can be taken from journals, books, patents, textbooks, and published sites. The compilation of the bibliography is recommended using reference management applications such as Mendeley, Zotero, End Note or others. The minimum number of references is 15 references. The writing format can be seen as follows:

References in the form of books

[1] Fox, R.W., McDonald, A.T., Pritchard, P.J., Introduction to fluid mechanics. 6th edition. United States: John Wiley & Sons; 2004. p 237.

References in the form of scientific journals

[2] Jamari, J., Eko, S., Anwar, I.B., Study of an additional layer of cement mantle hip joints for reducing cracks. Journal of Functional Biomaterials. 2019 September; 10(03): p. 40.

References in the form of seminar proceedings

[3] Putranto, A.W., Riza, R.R., Muchammad, Tauviqirrahman, M., Jamari, J., Bayuseno, A.P., CFD analysis of artificial slippage and surface texturing in lubricated sliding contact considering cavitation. Proceeding of International Conference on Engineering, Science and Nanotechnology (ICESNANO); 3-5 August 2016; Solo, Indonesia. AIP Publishing; 2017. 1788 (1). p 030068.

References in the form of theses/dissertations

[4] P, Manikandan. Antibacterial Efficacy of Moringa oleifera Leaf against Medically Important Clinical Pathogens. India: Annamalai University; 2018. P.235.

References in the form of patents

[5] Larkins, E.T., Thomas, B.S., Fetter, D.S., Cosmetics prosthetic hand. United States; US2561383A, 1947.

References in the form of articles on the website

[6] Diabetes Australia. Diabetes globally. http://www.diabetesaustralia.com.au/en/Understanding-Diabetes/Diabetes-Globally/. Canberra ACT: Diabetes Australia; 2012 (Accessed on 5 Nov 2019).