



SAMPLE PHYSICS LEARNING AND EDUCATION PAPER FOR A4 PAGE SIZE

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ABSTRACT

Write an abstrak here. Generally contains a brief description of the background and objectives, methodology, results and conclusions. The maximum number of words used is 250 words. Write below the keywords or keywords a maximum of 5 pieces.

Keywords: Put your keywords here, keywords are separated by semi colon.



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I. INTRODUCTION

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Articles in the journal *Pillar of Physics* are written in MS Word (.doc or .docx) format. Please use this template to write articles. The way of writing chapter titles follows this template by selecting the available style, namely Heading 1. Each paragraph is written with a left-right (justified) setting. The first paragraph for each chapter is written with the first line without indentation.

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II. METHOD

Your paper must use a page size corresponding to A4 which is 210mm (8.27") wide and 297mm (11.69") long. The margins must be set as follows: 1)Top = 19mm (0.75"), 2) Bottom = 28mm (1.1")Left = Right = 14.32mm (0.56").

The entire document should be in Times New Roman or Times font. Type 3 fonts must not be used. Other font types may be used if needed for special purposes.

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How to write references can be seen in the References section. Use the latest reference sources from scientific articles in journals, proceedings, books or sources from the internet.

No more than 2 levels of headings should be used. All headings must be in 10pt font. Every word in a heading must be capitalized except for short minor words such as “a”, “an”, “and”, “as”, “at”, “by”, “for”, “from”, “if”, “in”, “into”, “on”, “or”, “of”, “the”, “to”, “with”.

1) *Level-1 Heading:* A level-1 heading must be in Small Caps, left-justified and numbered using uppercase Roman numerals. For example, see heading “II. Method” of this document. The two level-1 headings which must not be numbered are “Acknowledgment” and “References”.

2) *Level-2 Heading:* A level-2 heading must be in Italic, left-justified and numbered using an uppercase alphabetic letter followed by a period. For example, see heading “D. Section Headings” above.

III. RESULTS AND DISCUSSION

Mathematical equations must be numbered consecutively and starting with (1) to the end of the paper including the appendix (attachment). This numbering must begin and end with opening and closing brackets and right aligned. Add one blank line above and below the equation.

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

If the equation is mentioned in text, the writing of the equation must begin with a capital letter, for example Equation (1).

Figures and tables must be centered in the column. Large figures and tables may span across both columns. Any table or figure that takes up more than 1 column width must be positioned either at the top or at the bottom of the page.

Graphics may be full color. All colors will be retained on the CDROM. Graphics must not use stipple fill patterns because they may not be reproduced properly. Please use only *SOLID FILL* colors which contrast well both on screen and on a black-and-white hardcopy.

Check that the resolution is adequate to reveal the important detail in the figure. Please check all figures in your paper both on screen and on a black-and-white hardcopy. When you check your paper on a black-and-white hardcopy, please ensure that: 1) the colors used in each figure contrast well, 2) the image used in each figure is clear, 3) all text labels in each figure are legible.

The table is made as in the example of Table 1. Information in the table is given above the table. Captions are written in lowercase except the first character of each sentence. Tables start at the left-aligned edge of the page. If the contents of the table come from a certain source, mention it at the bottom of the table with the font size 8 pt.

Table 1. First Table Title		
Column Titles	Column A (t)	Column B (t)
First line	1	2
Second line	3	4
Next line	5	6

(Source: Ref [1])

Image is centered on the page (center aligned). A caption is placed under the image. Captions are written in lowercase except the first character of each sentence. All images must be numbered consecutively. An example of writing an image can be seen in Figure 1.

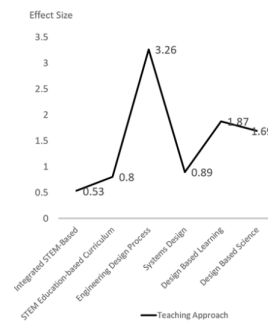


Fig. 1. Example of an image

If the image is more than one, arrange the image based on Figure 2.



Fig. 2. (a) Information of image “a” and (b) information of image “b”

Page numbers, headers and footers must not be used.

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IV. CONCLUSION

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Please write a thank you note in this section. Gratitude is addressed to research funders or parties who contributed to the implementation of research or writing articles, other than the author.

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