

# INSTRUCTIONS TO PREPARE AN ARTICLE FOR PUBLICATION IN THE JOURNAL OF ENGINEERING OF CATHOLIC UNIVERSITY OF PETRÓPOLIS

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**Abstract.** This template provides detailed instructions for preparing and submitting an article to the Journal of Engineering of Catholic University of Petrópolis. The first page is reserved for the title of the article, the authors, affiliation, keywords and the abstract. The abstract must be fully contained in the first page. The Introduction must begin at the top of the second page. All the instructions as well as the example files for LATEX and Microsoft Word can be found in the web page <http://www.ucp.br>.

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## 1 INTRODUCTION

This document provides information and instructions for preparing an article according to the EngUCP style. Only articles formatted according to the present guidelines will be accepted for publications. **It is strongly suggested that this instructions template file be used to write the paper.**

## 2 GENERAL SPECIFICATIONS

The article may be written in English or Portuguese within a printing box of 16cmx24cm, centered in the page. Use A4 paper size with 2.5cm for left and right margins, 3.4cm in top margin and 2.3cm at bottom margin. In this way, a 16x24cm box is set. The paper including figures, tables and references must have a minimum length of 6 pages and must not exceed 20 pages. The size of the PDF file of the paper must not exceed 2 MBytes.

### 2.1 Use of acronyms

If acronyms are used, then define them before their first occurrence.

## 3 TITLE, AUTHORS, AFFILIATION, KEYWORDS

The first page must contain the Title, Author(s), Affiliation(s), Keywords and the Abstract. The second page must begin with the Introduction. The first line of the title is located 3cm from the top of the printing box.

### 3.1 Title

The title should be written centered, in 14pt, boldface Times Roman, all capital letters. It should be single spaced if the title is more than one line long. Inclusion of formulas or special characters in the title is **highly** discouraged. Acronyms may be used if defined *in-line*, for instance “Large Eddy Simulation (LES) of flow around a cylinder”.

### 3.2 Author

The author’s name should include first name, middle initial and last name. It should be written centered, in 12pt boldface Times Roman, 12pt below the title. Put all the authors together, split in several lines if necessary. Affiliations must be arranged in centered blocks, after the authors. Identify each author with its corresponding affiliation using a number superscript, as in the example. If all the authors belong to the same affiliation do not use superscript.

### 3.3 Affiliation

Author’s affiliation should be written centered, in 11pt Italic Times Roman, 12pt below the list of authors. A 12pt space should separate two different affiliations. It is recommended that authors include an e-mail address per affiliation, if possible.

### 3.4 Keywords

Please, write no more than six keywords. They should be written left aligned, in 12pt Times Roman, and the line must begin with the words **Keywords** boldfaced (use **Palavras Chave** in Portuguese). A 14pt space should separate the keywords from the affiliations.

### 3.5 Abstract

Use 12pt Times Roman for the abstract. The word **Abstract** must be set in boldface, not italicized, at the beginning of the first line (use **Resumo** for Portuguese). The abstract text should be justified and separated 12pt from the keywords, as shown in the first page of these instructions. The abstract should be self-contained, so do not include figures, tables or equations in the abstract. Inclusion of references is **highly** discouraged. Avoid special characters. If acronyms are used, then define them before their first occurrence.

## 4 HEADINGS

### 4.1 Main headings

The main headings should be written left aligned, in 12pt, boldface and all capital Times Roman letters. There should be a 12pt space before, and 6pt after the main headings.

### 4.2 Secondary headings

The secondary headings should be written left aligned, in 12pt, boldface Times Roman, with an initial capital for first word only. There should be a 12pt space before, and 6pt after the secondary headings.

## 5 TEXT

The normal text should be written single-spaced, justified, using 12pt Times Roman in one column. The first line of each paragraph must be indented 0.5cm. There is not inter-paragraph spacing.

## 6 PAGE NUMBERS

The authors **must not number** the pages of the article. Numbers will be added by the editor/publisher.

## 7 FIGURES

All figures should be numbered consecutively and captioned. The caption should be written centered, in 10pt Times Roman, upper and lower case letters.

A 6pt space should separate the figure from the caption, and a 12pt space should separate the upper part of the figure and the bottom of the caption from the surrounding text (see Fig. 1). Figures should be referenced in the text as Fig. 1 (except at the beginning of a sentence, where Figure 1 should be used). Figures should be inserted as close as possible to their mention in the text and color figures are welcomed.

## 8 EQUATIONS

A displayed equation is numbered, using Arabic numbers in parentheses. It should be centered, leaving a 6pt space above and below to separate it from the surrounding text.

The following example is a simple single line:

$$\frac{\partial \rho}{\partial t} + \text{div}(\rho \mathbf{u}) = 0. \quad (1)$$

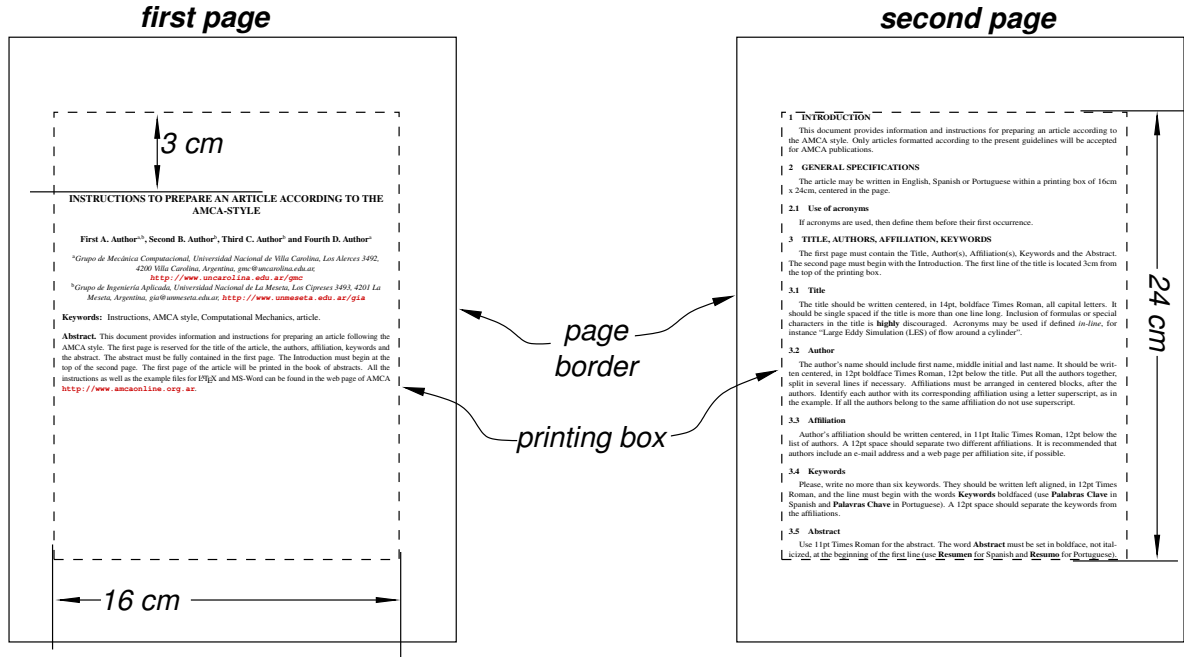


Figure 1: Page layout

The next example is a multi-line equation:

$$\begin{aligned} \frac{\partial \rho}{\partial t} + \operatorname{div}(\rho \mathbf{u}) &= 0 \\ \rho \frac{\partial \mathbf{u}}{\partial t} + \rho \mathbf{u} \cdot \nabla \mathbf{u} &= \operatorname{div} \sigma + \rho f \end{aligned} \quad (2)$$

When referring to an equation in the text write Eq. (2), except at the beginning of a sentence, where Equation (2) should be used.

## 9 TABLES

All tables should be numbered consecutively and captioned, the caption should be 10pt Times Roman, upper and lower case letters.

A space of 6pt separates the table from the caption, and 12pt space separates the table from the surrounding text. For an example, see Table 1. Tables should be referenced and inserted as close as possible to their mention in the text.

Table 1: Condition number for the Stekhlov operator.

	20x20 mesh	50x50 mesh	100x100 mesh
0	41.00	1.00	4.92
1	40.86	1.02	4.88
10	23.81	3.44	2.92
50	5.62	64.20	1.08

## 10 FORMAT OF REFERENCES

References should be sorted alphabetically by author's last name as shown in these instructions [6, 2, 3, 2, 3, 5, 1, 4]. Do not include references that are not cited in the article body.

If possible, internal PDF links must be generated for citations. The recommended color for links to references in the text is blue. The preferred color for links to external references, as web pages, is red (e.g. <http://www.ucp.br>).

## 11 CONCLUSIONS

Template files in L<sup>A</sup>T<sub>E</sub>X and Microsoft Word may be found at the web site: <http://www.ucp.br>. Remember: **Do not number the pages.**

### *Acknowledgments*

Acknowledgments are brief notes of appreciation for assistance given to the authors for the research and preparation of this article. This section must come before the References and must be unnumbered. The paragraph must not be indented. This section is **optional**.

## REFERENCES

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