

INSTRUCTIONS TO AUTHORS

UIS Ingenierías is a scientific Journal edited by Universidad Industrial de Santander, Faculty of Physical- Mechanical Engineering. Its main purpose is to publish every semester scientific results related to engineering area knowledge. Manuscripts must be original and exclusively submitted to “*Revista UIS Ingenierías*”, however editor reserves the rights of programming or printing them. For all cases credit will be given to authors.

GENERAL ASPECTS

The manuscripts must be adjusted to *UIS Ingenierías journal* format in order to start the editorial process. Then, it should be registered and submitted through the journal webpage <http://revistas.uis.edu.co/index.php/revistausingenierias>, joint to: “transfer of Copyright” agreement, declaration of originality letter and a compressed version file containing every image to be presented in the manuscript. The correspondence author (who is responsible for attending communication from the editor about manuscript) will be who submits the manuscript. A copy of every information submitted should be saved by authors.

TYPE OF ARTICLES

The article preferably should be one of the following typologies:

- 1. Article of Scientific and Technological Research:** Document in detail presenting original results of research projects. The structure usually contains four important parts: introduction, methodology, results and conclusions.
- 2. Article Reflection:** A document that presents research results from an analytical, interpretative or critical, on a specific topic, using original sources.
- 3. Review Article:** Document, result of an investigation, analyzing, systematizing and integrating research findings published or unpublished, on a field of science or technology, in order to account for the progress and development trends. It is characterized by a careful literature review of at least 50 references.
- 4. Short Article:** short paper presents preliminary or partial results of original scientific research or technological, which usually require a quick diffusion.
- 5. Case Report:** A document that presents the results of a study on a particular situation in order to present the technical and methodological experiences considered in a specific case. Includes a commented systematic review of the literature on similar cases.

The manuscript must keep the following sequence: (1) Homepage; (2) Abstract and keywords in spanish; (3) Abstract and keywords in english; (4) Introduction; (5) Development; (6) Conclusions; (7) Acknowledge; (8) References; (9) Curriculum (optional).

Preparation of articles in two (2) columns format for being published in the UIS Ingenierías journal

(Description: Capital letter, Times New Roman, Bold, size 16, Alignment: Center)

Preparación de artículos en formato de dos (2) columnas para ser publicados en la Revista de la Facultad de Ingenierías Físicomecánicas de la Universidad Industrial de Santander

(Description: Capital letter, Times New Roman, Bold, size 16, Alignment: Center)

FIRST AUTHOR NAME

(Description: names and lastname, Capital letter, Times New Roman, Bold, Normal, Size 10, Alignment: Center)

*Formation degree, Higher degree
Affiliation
e-mail
City and country*

(Description: Times New Roman, Capital letter, Normal, Size 10, Alignment: Center)

SECOND AUTHOR NAME

(Description: names and lastname, Capital letter, Times New Roman, Bold, Normal, Size 10, Alignment: Center)

*Formation degree, Higher degree
Affiliation
e-mail
City, country of the institution*

(Description: Times New Roman, Capital letter, Normal, Size 10, Alignment: Center)

ABSTRACT

(Description: Capital letter, Times New Roman, Bold, Normal, size 10, Center)

This paper presents the guidelines to prepare an article in order to be submitted to the *UIS Ingenierías* journal, edited by the Faculty of Engineering Physical-Mechanical of the *Universidad Industrial de Santander*. This document is by itself an example of the visual presentation of the article, but contains information about formats, sizes, and type of letters, article section structure, tables, figures and references format. The abstract must contain as maximum 150 words and equation, figures, references or tables are not allowed in this section.

KEYWORDS: They characterize the main subject or knowledge field of the article. They include from general to specific subjects in descendent order, but only the most representative words. The number of words must be more than three (3) but less than eight (8). *(Description: Capital letter, Times New Roman, Normal, Size 10, Alignment: left)*.

RESUMEN

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This paper presents the guidelines to prepare an article in order to be submitted to the *UIS Ingenierías* journal, edited by the Faculty of Engineering Physical-Mechanical of the *Universidad Industrial de Santander*. This document is by itself an example of the visual presentation of the article, but contain information about formats, sizes, and type of letters, article section structure, tables, figures and references format. The abstract must contain as maximum 150 words and equation, figures, references or tables are not allowed in this section.

PALABRAS CLAVES: They characterize the main subject or knowledge field of the article. They include from general to specific subjects in descendent order, but only the most representative words. The number of words must be more than three (3) but less than eight (8).

1. INTRODUCTION

(Description: Capital Letter, Times New Roman, Bold, Normal, Size 10, Alignment: Center)

The main purpose of this document is to present approximately how should be the appearance of an article to be published in the *UIS Ingenierías* journal and to provide guidelines to the authors in order to prepare their manuscripts and final version. Therefore, in addition to article structure this document provides information about formats, font sizes and types that must be used for each section of the article.

2. ARTICLE

(Description: Capital Letter, Times New Roman, Bold, Normal, Size 10, Alignment: center)

Articles should be adequately written and research results should be original Also, a contribution to the knowledge in one of the six engineering areas of the faculty (Industrial Design, Management and Business, Civil, Electrical, Electronic Telecommunications, and Mechanical Engineering and Computer sciences), must be reported.

2.1 Article file

Prepare a Word file of the full paper, by including figures, tables, pictures and appendices. Pictures should be digitalized and pasted in the text. Links for pictures should not be used.

2.1.1 Font type and size. Use Times New Roman font, size 10 in the whole document.

2.1.2 Format: The document should be dimensioned for printed version in letter paper size: 21.7 x 27 cm

2.2 Presentation of the article

Articles can be submitted for being considerate by the Editorial Committee at any time. Every article should be registered and submitted through the journal's webpage.

Titles: (Description: Times New Roman, Bold, Size 10, Capital letter, Alignment: Center)

Subtitles: (Description: Times New Roman, Bold, Size 10, Alignment: Left)

Example:

1. RECOMMENDATIONS FOR PREVENTION AND MITIGATION PLAN IN THE MUNICIPALITY OF BUCARAMANGA

In this study the most vulnerable zones in the municipality were identified. Recommendations were made for urban planning purposes, by considering structural aspects, strategic buildings and road infrastructure.

1.1 Urban planning

For future modifications or partial development of plan, it is proposed to have into account the following recommendations:

2. UNITS

Use the International System of Units (Système Internationale d'Unites or SI units). This system includes a subsystem of units based on the meter, kilogram, second, ampere (MKSA). Additionally, the SI has as

base unit the degree Kelvin units and as supplementary units the radian and steradian.

3. ADDITIONAL REQUERIMENTS

Guidelines for presentation of tables, figures, references, equations, use of abbreviations and acronyms, are included in this section as additional requirements.

3.1. Figures y Tables

3.1.1 Figures

Figures should be numbered consecutively in the same order that they are cited in the text, which should be adequately placed. You should refer the figure in the text as "Figure #". Title for figures should be placed below them and it must be in bold. It is recommended that graphs and figures be specifically prepared for publication and they must be original and not scanned. Graphs, figures and photographs in color must be individually attached in one of the next image formats: jpeg, jpg, tiff, gif. However, printed version of journal will be in black and white.

Example:

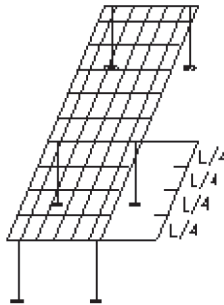


Figure 1. *Structural Model Used.*

3.1.2 Tables

Tables should be numbered consecutively and cited in the text. The title for table should appear on the top of it in bold. Tables should be attached directly from Excel and no added as images. Table's files should be attached in order to keep the journal printing as sharp as be possible.

Example:

Table 1. *Parameters of electrical system to compensate.*

| UL | f | fsw | R | Lf | Ucd |
|------|------|--------|-----|------|------|
| 230V | 50Hz | 10 kHz | 75Ω | 20mH | 400V |

3.2 Equations, Greek letters, Sub-indices y Exponents

For equations it is recommended to use the reduced notation, without risk of misunderstanding. For identification purposes a serial number placed between parentheses on the right of it, can be used if it is necessary, Times New Roman or similar font should be used in order to clearly identify Greek letters, subscripts and exponents, avoiding complicated exponents and letters affected simultaneously by subscripts and exponents.

Example:

$$i_{ref}(k) = i_L(k) - i_{1,\alpha}(k) \quad (1)$$

4. REFERENCES

References are a very important part of the paper for the reader, therefore, each citation must be complete and correct. During the editing process, references are not checked, therefore published articles could contain incomplete or erroneous references, unless they are detected by the evaluators. In that case, article will lose value and credibility of authors could be questioned.

References should be literature available, in general, for the scientific and academic community. It is worthy to refer books and articles published by other authors.

The references should be consecutively numbered in order of appearance and between square brackets [1]. In the text only the reference number should be quoted, for example: as in [2]. Do not use: as in "Ref [2]" or "reference [2]". International norms should be followed.

4.1 Journal Articles

Last name and initials of author or authors; title of the article; name of publication; volume and issue number; book chapter references; date of publication, and number of the first and last pages occupied by the referred article.

Example of reference for an article:

- [1] T.A.M. Sharaf and G.J. Berg, "Reliability evaluation in production planning: Practical considerations," *Trasn. Reliability Production*, vol. 37, No. 3, August 1998, pp. 274-279.

4.2 Books

Last name and initials of author or authors; title of book; edition; editorial; place and year of publication; book chapter; first and last page number.

Example of reference for a relevant part of a book:

- [2] P. Anderson, Analysis of faulted control systems, first edition. Ames, Iowa: Iowa State University press, 1973, p. 73.

4.3 Conference Proceedings

Last name and initials of author or authors; title of paper; proceedings name; location and date of event, year; volume, first and last page.

Example of reference for a conference

- [3] S. Binato and G.C Oliveira, "A Heuristic procedure to cope with multi-year production expansion planning", Proceeding of the 1995 Engineering Society International Symposium on Production Engineering, SPT PS 01-03-0277, pp. 12 – 17.

4.4 Thesis

Last name and name of the author or authors; title of the thesis, Thesis type (Undergraduate, Masters or Doctorate); University, place and year.

Example of reference for a Thesis:

- [10] Jacobs J. Regulation of life History Strategies within Individuals in Predictable and Unpredictable Enviroments [PhD Thesis]. Seattie, WA: University of Washington, 1996.

4.5 Internet References

Reference name, URL, (last accessed).

Example of reference for internet address:

- [2] NOAA-CIRES Climate Diagnosis Center. Advancing Understanding and Predictions of Climate Variability. Available: <http://www.cdc.noaa.gov> [cited on August 8th, 1998].

The "non-published observations" and "personal communications" should be placed in the text in parentheses and not in the references.

5. ABBREVIATIONS AND ACRONYMS

Abbreviations and acronyms, that are not common, should be defined as soon as they appear in the text, even if they were defined in the abstract. It is not necessary to define the abbreviations commonly used in each specialty, for example in electrical engineering IEEE, SI, MKS, CGS, ac, dc, and rms,. Do not use abbreviations in the title unless they are unavoidable.

6. FUTURE

Due to dynamic developments in the use of scientific information, the guidance and electronic media for editing and publishing, specifications given in this document will require periodic review. Authors can contribute to these reviews by sending your comments and suggestions to: AA 678 of Bucaramanga. e-mail: revistaingenierias@uis.edu.co; usingenierias@gmail.com

7. ACKNOWLEDGEMENT

By a short paragraph, it is possible to express appreciation to individuals and / or institutions that have collaborated in the development of the work presented in the paper.

8. CURRICULUM

This can include a brief CV of each author, by emphasizing on the scientific, technological and educational profile. Each author may include a recent photo. The resume will appear at the end of the article and its extension must be included within the limit of ten (10) pages.