

INSTRUCTIONS TO AUTHORS

UIS Ingenierías Journal is a scientific mean of divulgation of the Faculty of Physical- Mechanical Engineering at Universidad Industrial de Santander, whose propose is publish scientific, in knowledge fields in engineering. Edition of the Journal is semiannual. Manuscripts must be original and exclusively submitted to “*Revista UIS Ingenierías*”. The editorial staff reserves the rights of programming, printing as well as partial or total reproduction of the works submitted for consideration (Copyright), in all the cases giving credit to authors.

GENERAL ASPECTS

To begin the editorial process, the articles must be adjusted to *UIS Ingenierías journal* format; after that the manuscript should be registered and submitted through the journal webpage <http://revistas.uis.edu.co/index.php/revistausingenierias>, as well as “transfer of Copyright” agreement, Declaration of Originality letter and a compressed file with the images used in the manuscript. The author responsible for mails concern to the manuscript (corrections, changes or pre-printing reviews) will be the one that register the manuscript in the journal webpage. The author must be sure of keep a copy of all the information sent.

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Document, result of an investigation, analyzing, systematizing and integrating research findings published or unpublished, on a field of science or technology, in order to account for the progress and development trends.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).

Articles preparation in two (2) columns format for publication in the journal of Faculty of Engineering Physical-Mechanical at Universidad Industrial de Santander

(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 Físico-Mecánicas 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)

Educational Background

Institution

e-mail

City, country of the institution

(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)

Educational Background

Institution

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City, country of the institution

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ABSTRACT

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

It presents the necessary guidelines to prepare an article that can be published in the journal of the Faculty of Engineering Physical-Mechanical at Universidad Industrial de Santander. This document is by itself an example of the appearance of the article. Furthermore, has information about formats, sizes, and type of letters, article section structure, and presentation of tables, figures and bibliographic references. The abstract must be maximum 150 words. It is not allowed include equation, figures or tables in this section.

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

RESUMEN

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

It presents the necessary guidelines to prepare an article that can be published in the journal of the Faculty of Engineering Physical-Mechanical at Universidad Industrial de Santander. This document is by itself an example of the appearance of the article. Furthermore, has information about formats, sizes, and type of letters, article section structure, and presentation of tables, figures and bibliographic references. The abstract must be maximum 150 words. It is not allowed include equation, figures or tables in this section.

PALABRAS CLAVE: (Description: Capital letter, Times New Roman, Normal, Size 10, Alignment: left). It characterizes the main subject or field of knowledge to which belong the article. Include general subjects to specific in descendent order; only those 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)

This work's objective is simulating, with a high approximation degree, the appearance that an article must have and provide guidelines to guide the author in its creation. Therefore, in addition to article's structure it is provide information about formats, fonts and font sizes that must be used in each section of the article.

2. ARTICLE

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

Articles' length is maximum 15 pages. Articles should be well written, correspond to an original work by the authors. Also, shows a contribution to the knowledge in the fields related to the six schools that belongs to the Faculty: Industrial Design, Industrial and Business Studies, Civil Engineering, Electrical, Electronic and Telecommunications Engineering and Mechanical Engineering and Information Systems.

2.1 Article file

Prepare a Word file, with the whole article, including figures, tables, pictures and annexes. Pictures should be digitalized or also be directly paste in the text, do not use links for the pictures.

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

2.1.2 Format: The document should be dimensioned to be printed in letter paper, 21.7 x 27 cm

2.2 Presentation of the article

Articles may be submitted for consideration of the Editorial Committee at any time. For that articles 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 was identifying the most vulnerable zones in the municipality. Recommendations were made for urban planning purposes, considering structural aspects, strategic buildings and road infrastructure.

1.1 Urban planning

Para los efectos de una posterior modificación o para los planes parciales que se prevea desarrollar se propone tener en cuenta las siguientes recomendaciones:

2. UNITS

Use the International System of Units (Système Internationale d'Unités or SI units). This system includes a subsystem of units based on the meter, kilogram, second, ampere (MKSA). In addition to the above, the SI has as base unit the degree Kelvin units,

the candela and the mole, and as supplementary units the radian and steradian.

3. ADDITIONAL REQUERIMENTS

Among additional requirements are include the guidelines for presentation of tables, figures, references, and equations; as well as use of abbreviations and acronyms.

3.1. Figures y Tables

3.1.1 Figures

Figures should be numbered consecutively in the order they are cited in the text, which should provide the right place placement. You should use "Figure #" to refer to it in the text. All figures should have title below them and it must be in bold. It is recommended that the graphs and figures are specifically prepared for publication. Graphs, Figures and Photographs in color must be submitted in an attachment, under an image format (jpeg, jpg, tiff, gif). Eventhough at the time of printing it be done in black and white; also images must be original and not scanned.

Example:

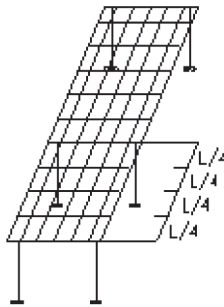


Figure 1. *Structural Model Used.*

3.1.2 Tables

It will be numbered consecutively and shall be cited in the text. The title of the table should appear in bold on top of it. Tables must be attached directly from Excel, not as an image. Table's files must be attached; this helps to keep the journal printing as sharp as 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

In the equations is will seek the highest quality of writing and use the reduced notation, without risk of misunderstanding. For identification it will be use, if necessary, a serial number placed between parentheses to the right of the equation.

A font (Times New Roman or similar) is chosen such that the Greek letters, subscripts and exponents be perfectly identifiable, avoiding the complicated exponents and letters affected simultaneously of subscripts and exponents.

Example:

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

4. REFERENCES

References are important to the reader, therefore, each citation must be complete and correct. In the editing process, references are not check, therefore, it could be possible that published articles may be incomplete or with erroneous references, unless they are detected by the evaluators, in this case, the article will lose value and could be questioned the credibility of the authors.

References should be publications available in general to the scientific and academic community. It is worthy quoting as reference books and articles published by other authors.

The references 'numbering should be done consecutively, in order of appearance and between square brackets [1]. In the text simply quote the reference number, for example: as in [2], do not use: as in "Ref [2]" or "reference [2]". International norms will be followed. These norms are generally used in the diverse publications, ergo:

4.1 Journal Articles

Lastname 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 article to which concerns the reference.

Model of how to cite 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

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

Model of how to cite the 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

Lastname and initials of author or authors; title of paper; name of the event; location and date, year; volume where it is in the memories, first page and end last page.

Model of how to cite 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

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

Model how to quote a Thesis:

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

4.5 Internet References

Reference name, URL, (last accessed).

Model how to cite an Internet address:

[2] NOAA-CIRES Climate Diagnostics Center. *Advancing Understanding and Predictions of Climate Variability*. Available: <http://www.cdc.noaa.gov> [citado 8 de Agosto de 1998].

The "unpublished observations" and "personal communications" should be placed in parentheses in the text, not in the bibliography.

5. ABBREVIATIONS AND ACRONYMS

Define abbreviations and acronyms that are not common 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, such as IEEE, SI, MKS, CGS, ac, dc, and rms, in electrical engineering. Do not use abbreviations in the title unless they are unavoidable.

6. FUTURE

Due to the dynamic developments in the use of scientific information, the guidance and electronic media for editing and publishing, the 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; uisingenierias@gmail.com

7. ACKNOWLEDGEMENT

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

8. CURRICULUM

This may include a brief CV of each author, doing emphasis on the scientific, technological and educational part. 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.