

## INSTRUCTIONS TO THE AUTHORS

*UIS Ingenierías* is a scientific Journal edited by Universidad Industrial de Santander, Faculty of Physicalmechanical Engineering. Its main purpose is to publish scientific results related to engineering area knowledge, each semester. Every manuscript has to be unpublished and exclusively submitted to “*Revista UIS Ingenierías*”, however editor reserves their programming or printing, but for every case credit will be given to the 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 must correspond to an **Article of Scientific and Technological Research**. This is a document that presents in detail the results of original research projects. The structure generally used contains four major sections: introduction, methodology, results and conclusions.

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 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)*

*Formation degree, Higher degree*

*Affiliation*

*e-mail*

*City and country*

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

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*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

(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 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'Unités 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

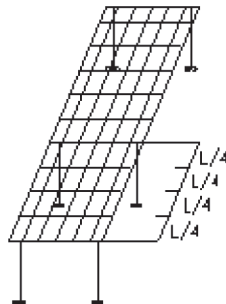
Guidelines for presentation of tables, figures, references, equations, use of abbreviations and acronyms, are included in this section as additional requirements.

#### 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 be compensated*

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

#### 3.2 Equations, Greek Letters, Sub-indices and 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:

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

### 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.

Citation of references in the magazine is covered by the ISO 690 standard, also with ISO 690-2 for citation of electronic documents. The numbering should be consecutive, in order of appearance, following the outline given in the examples below:

#### 4.1 Books

Last, First name (authors names must be separate by ;). Title (it is in italic). Other responsibilities: translator, editor, etc. (optional). Edition. Place of publication: Editorial, year. Book spread (optional). Collection (optional). ISBN number (optional)

Example:

BOBBIO, Norberto. Autobiography. Papuzzi, Alberto(ed.lit); Peces-Barba, Gregorio(prol.);Benitez, Esther (trans.). Madrid: Taurus 1988. 299p. ISBN: 84-306-0267-4.

MANI, I. Automatic Summarization. 3rd ed. Amsterdam: John Benjamins, 2001. 285 p. Natural Language Processing. 90-272-4986-5.

If more than three authors, may indicate the first or the first, second and third. The rest can be ignored. If it is omitted one or more names, after the latter is reflected by et al, as shown below:

GÓMEZ, T. et al. Life after death. Bilbao: Deusto, 1989.

#### 4.2 Parts of a Book

Last, First name of author (author/s, initials separated by different authors;). Book title (in italics). Edition. Number of part (volume). Place of publication: Publisher, year, status of the source publication (section, pages, etc.).

Example:

GREY, T. and PARKER, W. A Text-Book of Botany. 4th ed., vol. 2. Berlin: Springer, 1920. Sección 10, Acacia Viridis, pp. 345-390.

SNAVELY, B.B. *Continuous-Wave Dye lasers I*. En: SCHÄFER, F.P. (ed). Dye lasers. Berlin: Springer, 1990. p. 91-120.

#### 4.3 Chapter of a book

Last, First name of author (author/s chapter, different authors initials separated by;). Title of chapter. Last, First name of author (author of the book). Book title (in italics). Place of publication: Publisher, year, location of the source (volume, pages, etc.).

Example:

RIESS, S. A. Historical Perspectives on Sports and Public Policy. In RICH, Wilbur C. (ed.). *The Economics and Politics of Sports Facilities*. London: Quorum Books, 2000, pp. 13-52.

If more than three authors, may indicate the first or the first, second and third. The rest can be ignored. If it is omitted one or more names, after the latter is reflected by et al.

#### 4.4 Magazines

Title (in italics). Responsibility magazine. Edition. Issue identity (dates and/or numbers). Place of Publication: Publisher, year. Series (optional). Comments (optional). Standard number (ISSN).

Example:

*IEEE Internet Computing*. IEEE Computing Society. 1999, vol. 60. Los Alamitos (Ca): IEEE Computer Society, 1988. ISSN 0018-9350.

#### 4.5 Journal articles

Last, First name of author (author/s, initials separated by different authors;). Title of article. Contributors (optional). Title of journal (in italics). Year, volume (vol.), number (No.), pages (pp.).

Example:

DEARLE, A. Toward Ubiquitous Environments for Mobile Users. *IEEE Internet Computing*. 1998, vol. 12, núm. 2, pp. 22-32.

LLOSA, Josep, et al. Modulo scheduling with reduced register pressure. *IEEE Transactions on computers*. 1998, vol 47, núm. 6, p. 625-638.

#### 4.6 Congresses or scientific/academic events

Author. Title (in italics). Other responsibilities (optional). Place of Publication: Publisher, year. Extension (optional). Standard Number (ISBN).

Example:

*Proceedings of the XXIII International Congress of History of Art. Granada, 3-8 September 1973*, Granada: Department of Art History, University of Granada, 1976 ISBN 84-600-6927-3..

*Proceedings of the First Congress of History of the Spanish Language in America and Spain: November 1994 - February 1995*. M. Teresa Echenique, and M. José Martínez (eds.). Valencia: Universitat, Department of Spanish Philology, 1995 564 p.. ISBN: 8480022698.

#### 4.7 Presentation at conference or scientific/academic event

Last, First name of authors (chapter authors, initials separated by;) name. Title of chapter. Blame Congress. Conference title (in italics). Venue of the conference: Publisher, year of publication, pages.

Example:

TOLLEMACHE, F. Mediterranean and Atlantic in the Aragonese customs tariffs of the thirteenth and fourteenth centuries Influences. Department of Linguistics Geography CSIC. *V International Congress of Linguistic Studies of the Mediterranean, Malaga, August 27-September 1, 1973* [Malaga]. Institute of Hispanic Culture, 1977, p. 15-25.

#### 4.8 Doctoral thesis

Last, First name (initials). Title (in italics). Other responsibilities: supervisor, etc.. (optional). Edition. Place of Publication: Publisher, year. Extension (optional). Comments (optional).

Example:

GANUZA FERNANDEZ, J.J. *Strategic behavior in public procurement*. Directed by: Marco Celentani, Carlos Ocaña. Getafe: Universidad Carlos III de Madrid, Department of Economics, 1996.

#### 4.9 Electronic documents

Author (s). Title (in italics) [type of medium]. Edition. Place of publication: publisher, date of publication, updating or revision. "Designation chapter or part title part." Letters. Availability and access URL <>. [Accessed: date, day, month and year were consulted].

Example :

•**Website:** Universidad Europea de Madrid [Online]. <<http://www.uem.es>>. [Accessed: 10-7-2002]

•**Electronic books :** CLEGG, B. *Training Plus. Revitalizing your Training* [Online]. London: Sterling, Va. Kogan Page, 2000. e-books collection of Universidad Europea de Madrid. <[http://www.netlibrary.com/ebook\\_info.asp?product\\_id=62794](http://www.netlibrary.com/ebook_info.asp?product_id=62794)> [Accessed: 6-7-2002]. ISBN e-book 0585379238.

•**Documents:** Library of Congress. MARC 21 Concise Format for Bibliographic Data [Online]. 2001 Concise Edition. [Washington, DC]: Library of Congress, Network Development and MARC Standard Office, 04/03/2002. <<http://www.loc.gov/marc/bibliographic/ecbdhome.html>> [Accessed: 10-7-2002].

• **Databases:** Periodic [database online]. Mexico: National University Libraries Department, Department of Latin American Literature, [2002]. Latin American Periodicals Index Sciences. <<http://www.dgbiblio.unam.mx/periodica.html>> [Accessed: 01/08/2002].

• **Software:** The Library of Congress. Library of Congress Online Catalog [Online]. Washington: Library of Congress, July 8, 2002 <<http://catalog.loc.gov/>> [Accessed: 07/10/2002]

• **Serials publications:** European Journal of Marketing [online]. Bradford: Emerald (MCB UP Ltd.) [2002]. <<http://ernesto.emeraldinsight.com/vl=2375951/cl=32/nw=1/rpsv/cw/www/mcb/03090566/contp1.htm>> [Accessed: 10/07/2002]. ISSN 03090566.

•**Articles in serial publications:** LEMRINI, M. Technologies for the Future (1) [Online]. Binary, vol. I (December 2001). <<http://www.uem.es/binaria/intro.html>> [Accessed: 10/07/2002]. ISSN 15791300.

The citation in the text of the references will be made according to the method of the first element and the year of publication of document. If the first element is given in the text accompanying the year is given in parentheses, otherwise the first element and year are in parentheses. If necessary, the numbers of the consulted pages are indicated after the year within parentheses. If two or more documents have the same first element and the same year, both are distinguished by lowercase letters (a, b, c, etc.) followed by the year within the parentheses.

#### Model how to cite references in the text:

“The contrast achieved with the proposed method is significantly higher than that achieved with the most applications available today (Crane , 2011, McGills and Stancy, 2010; Richardson et al., 2010). However, Gunter (1999, p.556) has recommended that other parameters are also used ...”

“These were introduced by Kosko (1986) for the analysis of causal relationships using fuzzy logic (Zadeh, 1965) to represent uncertainty in the relationship ...”



### Model how to cite an article of this journal:

- **Electronic Document Format (ISO):**

ARDILA-MARIN, John and HINCAPIE-ZULUAGA Diego. TUBE HEAT EXCHANGERS SPIRAL Mag. UIS Ingenierías journal [online]. 2012, vol.11, n.2 [cited 2013-02-25], p.203-213. Available at: <http://revistas.uis.edu.co/index.php/revistausingenierias/article/view/3640/4028>. ISSN 2145-8456.

- **Electronic Document Format (ABNT)**

ARDILA-MARIN, John and HINCAPIE-ZULUAGA Diego. TUBE HEAT EXCHANGERS SPIRAL. UIS Ingenierías journal, v.11, n.2, dic.2013. Available in <http://revistas.uis.edu.co/index.php/revistausingenierias/article/view/3640/4028>. Accessed February 25, 2013.

- **Electronic Document Format (APA)**

ARDILA-MARIN, John and HINCAPIE-ZULUAGA, Diego (2012). TUBE HEAT EXCHANGERS SPIRAL. UIS Ingenierías journal, 11 (2), 203-213. Retrieved on February 25, 2013, of <http://revistas.uis.edu.co/index.php/revistausingenierias/article/view/3640/4028>.

## 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](mailto:revistaingenierias@uis.edu.co); [usingenierias@gmail.com](mailto: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.