# Template for submitting papers to the journal I2+D of Pedagogical and Technological University of Colombia - Engineering Area

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**Formato para presentación de artículos en la revista I2+D de la Universidad Pedagógica Tecnológica de Colombia - Área de ingeniería**

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**Abstract**

This document describes the format for submitting papers to the journal of Sogamoso Faculty at Pedagogical and Technological University of Colombia. This shows in detail how the abstract, methods, results, discussion, tables, figures, and references must be presented.

**Key words:** Air mass trajectory, enrichment factor, acidic species, rain, snow.

**Resumen**

El presente artículo describe el formato que se utiliza para someter y publicar artículos en la Revista de la Facultad Seccional Sogamoso de la Universidad Pedagógica y Tecnológica de Colombia. En éste se detallan aspectos como objetivos del trabajo, la presentación de la introducción, el diseño del contenido, los materiales y métodos utilizados, presentación de tablas y figuras, el estilo de las referencias y la conclusión principal del trabajo

**Palabras clave:** Trayectoria de la masa de aire, factor de enriquecimiento, especies acídicas, lluvia, nieve.

1. INTRODUCTION

The **Engineering Research and Development** **I2+D Journal**, is a biannual publication, funded by Pedagogical and Technological University of Colombia, Faculty sectional Sogamoso, created in 2005; Instituted as a space to publish and disseminate academic and research works on topics related to the area of engineering and technology. Engineering Researchtion and Development, It is aimed at the entire academic and research community of public and private, regional, national and international institutions, such as researchers, research groups and seedbeds, teachers, students, and directors.you of engineering and others interested in topics related to the different areas of Engineering.

Space directed to give credit to institutions and financial institutions that have supportedor the project

Note that the body of these notes is described in a similar way to the presentation of the articles to be published.

1. PRESENTATION OF ARTICLES

The rules governing the presentation of articles have been endorsed by the editorial committee, formed by professors of the different Engineering programs with designation of the curricular committee of each School and ratified by the Faculty Council of theheadquarters.

The articles must be sent through the OJS platform of the journal through the link [www.uptc.edu.co/enlaces/ringinvedesa](http://www.uptc.edu.co/enlaces/ringinvedesa), or failing that to the email of the journal (revistaiid@uptc.edu.co), the journal maintains a call open permanently, only calls will be opened with specific dates, for special issues, in particular topics, approves given by the Editorial Committee of the journal I2+D.

The body of the article must be organized according to the instructions or notes to the author, described in the format of Presentation of articles stipulated by the journal, which can be consulted and downloaded in the Open Journal System (OJS) platform of the journal or request it to the revistaiid@uptc.edu.co mail.

Once the articles are evaluated and approved by external peers, they become part of the journal'sPublishable Articles Bench. For the publication of an article of the bank of publishable articles, the date of receipt and date of approval of the same will be taken into account. The acceptance of the articles by the editorial committee and / or editor, does not imply that they will be published.

Volumes will have specific or general themes as defined by the publications committee.

3. CONTENT

The articles must be presented in letter-size sheets with upper margins 3cm, right 2cm, left 3cm and lower 2cm, single space, double column, Calibri type letter and a maximum content of 10 pages (7 pages recommended). The accents of the titles must be marked in capital letters that contain them.

A copy of the template can be downloaded through the magazine platform or supplied by the people in charge of the journal. The content is based on the following aspects:

3.1 Title

The title must be representative of the subject matter addressed and should not exceed 15 words. The title is written in capital letters (centered), with accents where you need it, in Calibri type, size No. 14 and bold. Below the title in Spanish must appear its translation in English, in lowercase, bold, center, letter type Calibri and size Nº 12.

3.2 Authors

The identification of authors and origin in Calibri type, size No. 11 and consists of a) In lowercase except the first letter of the full name and surname (separated by comma when there are more than two authors). The names do not carry academic titles that precede it such as Eng, Esp, Msc or Phd. b) The identification of origin (center or academic unit to which it belongs, Institution, research group , country to which the institution of affiliation of each author belongs and e-mail:), is placed below the names. If the authors have different research links, identify them with subscript, as the case may be. Under the names in italics and in parentheses the committee will place the fecha acceptance and approval of the article. From now on the article is written in calibri type, size No. 10.

3.3 Summary

It is presented in English and Spanish as shown in the example box shown at the beginning of this article. The maximum number of words is 250. The abstract refers concisely to the content of the article; Its clarity is of great importance since it serves to identify the subject exposed, the most important points will be included, the objectives of the study will be circumscribed, basic procedures (places or areas of study, observation and analytical methods), the most outstanding results (through the presentation of concrete data) and the main conclusions and most innovative observations of the I am a student. You should keep in mind that a well-prepared summary allows the reader to: Quickly and concretely identify the content of the document; Establish the relevance to your interests and decide whether or not you should read the work in its entirety.

3.4Keywords

In italics type title, with the same size of the content of the work and will be placed: *Keywords*: including two points, then leave double space and place the abstract in the same way, *Key words:* for the abstract in English. Three to ten simple or compound terms with a maximum of three words, separated by commas, can be identified. It should be borne in mind that the main function of keywords is to classify the thematic content of the document, therefore they must reflect the subject matter treated in the development of the article. To help your selection you can consult the Thesauri.

3.5 Introduction

The serial magazine I 2+D (ISSN 1900-771X-e-ISSN 2422-4324), will publish unpublished works in all fields of engineering and technology, in Spanish and English. Original articles, research and/or technological innovation will be published (presentation of original results of research projects); review articles or replicas of publications of the journal itself (analysis, integration of research with at least 50 references). In addition, thesis abstracts, book reviews and communications of interest to these professions may be included, the journal is aimed at teachers, student researchers and professionalsinterested in the permanent updating of their technological and scientific knowledge.

The proposed presentation for the articles is: i. Title: Spanish and English, ii. Summary: Spanish and English, iii. Introduction, iv. Methodology, see interpretationof results. VII. Conclusions, viii. Acknowledgements if it is clear and necessary, within this session you can inform about the body that funds or supports the research. xi. Bibliography: following guidelines of uniformity of the journal.

The articles that wish to be published in the journal must be framed in one of the types of Research and Innovation articles defined by the National Indexing Guide defined by Publindex or whoever takes its place (Colciencias, 2006).

**Scientific and technological research articles:** documents that present in detail the original results of completed research projects. The structure of the document must contain at least: Abstract, introduction, methodology, results, and conclusions.

**Reflection articles:** documents that present results of finished research from an analytical, interpretative, or critical perspective of the author on a specific topic, drawing on original sources.

**Review articles:** documents resulting from completed research where published or unpublished research results on a field in science or technology are analyzed, systematized, and integrated, to account for advances and development trends. It is characterized by presenting a bibliographic review of at least 50 references.

The manuscripts submitted to the journal I2+ D, must be original of the author and not have been published in another publication medium, nor be simultaneously nominated in other journals or editorial bodies; Along with the article, the author's letter of authorization, signed by the authors or the author responsible for receiving communications from the journal, must be sent.

On the other hand, the Editorial Committee of the journal reserves the rights of printing, total or partial reproduction of the material received, as well as to accept or reject it. Likewise, it reserves the right to make any editorial modification that isinconvenient. In such a case, the author will receive written recommendations from the evaluators. If you accept them, you must submit the article with the suggested adjustments within the dates set by the journal to ensure its publication in the programmed volume.

3.6 Content

The titles and the number of titles used in this part of the article are freely chosen by the authors; However, here are some indications of the structure to follow.

Section titles are centered in capital letters and bold. Subsections are titled in italics, the first letter of each word capitalized, except for connecting words (of, in, for, etc.) and articles (el, los, etc.), except if used starting the title.

The numbering of the second and third level sections and subsections is done in multilevel.

If subsections are necessary after the third level, they are capitalized open, indented, and unnumbered.

3.6.1 To Assigns. They will appear only if the authors consider it relevant.

3.6.2 Methodology. It is not mandatory that the title methodology appears, but it is important that the methodological process that was carried out is described. The number of sections and their titleswill be defined by the authors according to the hierarchy of the topic they have planned. These sections include experimental processes, pre-design techniques, state of the art, evaluation systems, data collection techniques, etc.

3.6.3 Results. The number of sections and the respective titles will be defined by the authors. These sections present the achievements obtained through experimentation, analysis, comparison, diagnosis, context studies, etc.

3.6.4 Analysis and discussion of results. The number of sections and titles will be defined by the authors according to the presentation of the results and the analysis that originates from them.

3.6.5 Figures. The figures and photographs must be original, must beincorporated in grayscale, will only be accepted in colors, when they are necessary for the understanding of it; a minimum resolution of 300 dpi must be guaranteed for reproduction on any type of paper, they must be listed with Arabic numerals and consecutively. The label of the same begins with the word "Figure" followed by the number (in bold), and then a description is made to identify its content. To label the letters calibri type letter is used, size No. 10, the word Figure or Graph must be in lowercase except the first letter, the size of the explanatory text of the Figures must also go in Calibri 10, as it appears in the examples of this article The figures must be cited in the text before they appear. Do not use low-resolution figures, as it impoverishes the quality of the item. The identification and description of Graphs and Figures must go at the bottom of it.

The graphics must have standard colors (red, blue, green, and yellow), it is recommended to use solid colors, which stand out against the background of the figure, so that they can be reproduced in any system. The use of supplementary colors, e.g., combining the same type of colour in different shades, should be avoided.

Below are two examples of figures. Figure 1 is an example of a grayscale graph, Figure 2 shows the distribution of an image, with good resolution. (See Figure 1 and 2). If the corresponding explanation of the figure has sections a, b,..., are closed in parentheses and each section ends in a row, Example:

**Figure 3**. Expansion of the ocean floor. (a) Ascension of mantle material along the mid-ocean ridge system. (b) Convection movement of mantle material transporter. (c) Ocean floor like the movement of a conveyor belt to the submarine trenches where the ocean floor descends into the mantle.



**Figure 1.**  Example of presenting a grayscale graph.



**Figure 2.**  Example of figure distribution with good resolution.

If the Figure is taken from a book or magazine, the source of information must be recorded (See Figure 3), if it corresponds to the author there is no need to place the source, it is understood.

When the size of a figure is very long or wide, and its content warrants it, it is allowed to extend to occupy the space of the two columns, it must be showncentred and well distributed on the page.

When the Figure is determined by two illustrations (or more) these must be marked with capital letters (A, B,... ) in bold. The description of the Figure follows the same previous patterns of description (See Figura 3).





**Figure 3**. Parietal speleothems. (A) Sawtooth deposits. (B) Castings. [1].

3.6.6 Tables. The name of the tables is placed at the top. Like the figures will be listed with Arabic numerals and in a consecut iva. The label of the same begins with the word "Table" followed by the number (in bold). To label the tables, calibri size No. 10 is used as shown in the example in this article. Except for the first row, the tables do not have horizontal or vertical dividing lines (See table 1). The identification of Tables and Tables is done at the top (calibri and font size 10), justified to the size of the table, **be careful not to place a period at the end of the description of the Tabla.** Ex: **Table 3**. Isotopic composition of sulphurous minerals in surface and groundwater on the margin of the Ebro basin

If the data in the Table or Table are taken from a book or journal, the source should be cited at the end of the table description.

**Table 3** Isotopic composition of sulphurous minerals in surface and groundwater on the margin of the Ebro basin [2].

**Table 1**. Example of a table for publishing articles

|  |  |  |
| --- | --- | --- |
| **Item** | **Size** | **Style** |
| Title | 16 | Bold, Uppercase |
| Autores | 12 | Gauges |
| Body of text | 10 | Gauges |
| Section headers | 10 | Italics |

The fonts in the tables can be 10 points.

3.6.7 Equations. They must be edited in an appropriate editor, for example Microsoft equation editor; they must alsobe justified, numbered sequentially and with numbers in parentheses, justified on the right:

 (1)

 (2)

If the article uses n equations, they must have consecutive numbering and must be cited and used in the text.

3.6.8 Citations. The citation used in this format is numerical, according to the order in which the documents are mentioned, number consecutively the reference citations in bracket []. The citations are made within the content of the article, where the authors wish to reference a topic.

It is not necessary to say, for example, "In reference [12]... or Ref. [12]". " The phrase "in [27]..." That's enough.

It is important that each of the citations that have been inserted in the text has its corresponding reference in the final list and, conversely, every entry in the list of references must have been cited within the text.

3.7 Recommendations

They will appear only if the authors consider it relevant. Their numbering corresponds to the consecutive one that is carried in the content of the body of the article, and they always go after the conclusions.

3.8 References

The order corresponds to the consecutive that is carried in the content of the body of the article and is the last section of it. The references are presented considering the examples that appear as references of this example article (annex).

CONCLUSIONS

They describe in a timely manner the authors' assessments of the development of the work reported in the document.

They are considered one of the most important parts of the article, they are not numbered, and each conclusion forms a separate paragraph.

The title CONCLUSION in the section is mandatory. The number of the section corresponds to the consecutive number that is carried in the content of the body of the article.

REFERENCES

It is important that each quote is referenced completely and correctly, highlighting the importance of these for the reader. The journal will not see incomplete or erroneous references, unless they are detected by the reviewers, in this case the article will lose value and the authors their credibility.

According to the IEEE style, the sources consulted are indicated by a numberwithin the text, a number that corresponds to the complete bibliographic information that must be included in a list of references presented at the end of the document and is organized in the numerical order of the citations.

Only the references s of the documents that were cited within the body of the work should appear, as well as the figures, tables, diagrams etc. Any affirmation in the text of the article from another document or publication must be recognized by the respective reference.Once a number is assigned to a given source, the same number should be used in all references to that font in the text.

Each number of references must be in square brackets [ ], for example, "... With studies [2].", it is not necessary to mention the author(s), in the reference, unless it is relevant in the text itself, the date of publication should not be mentioned in the body of the document.

Do not place references in footnotes, refer to bibliography by number, for example, [2]; for individual references, [2,6]; for non-consecutive references; and [5-9]; for grouping consecutive references.

Each reference can include up to six authors; For bibliographic entries with a larger number of authors, the abbreviation "*et al.* ".

It is recommended to consult updated references (5 years ago), **orbligatorio that the DOI is included in the bibliographic references.**

For citations and bibliographic references, the journal uses the IEEE style, below are some citation examples:

Journals

Author(s), "Title of the article in quotes", *Title of the journal in italics*, volume (abbreviated vol.), abbreviated number no.), pages (abbreviated pp.), Month, Year.

[1] F.D. Lascarro, F.M. Cormane, and E.E. Rojas, "Estudio geoespeleológico de la caverna del Cerro Ecce Homo en el municipio de Chimichagua Cesar", *Revista Ingeniería Investigación y Desarrollo*, vol. 15 no. 2, pp. 6-14, July, 2015.

Chapter or Book

Author(s), "Chapter title in quotation marks,". In Book title in italics, Initials and Last Name of the Publisher, Compiler. Etc. Publisher: Place of publication, Year of publication, Pages (abbreviated pp.)

[2] L. Stein, “Random patterns,” in Computers and You, J. S. Brake, Ed. New York: Wiley, 1994, pp. 55-70.

Monograph

Initials and Surname, Book title in italics, Edition. Place of publication: Publisher, Year of publication.

[3] M. Abramowitz and I. A. Stegun, Eds., Handbook of Mathematical Functions (Applied Mathematics Series 55). Washington, DC: NBS, 1964, pp. 32-33.

Internet resource

Author(s), "Title of the article", *Abbreviated name of the journal*, [publication medium] (optional), vol. (issue), pp. xx-xx, abbreviated month, yearor [date of consultation]. Web address of the document's location.

[4] E. H. Miller, “A note on reflector arrays,” *IEEE Trans.*  *Antennas Propag*, [online], vol. 53, pp.475, 2005. Disponible en: http://ieeexplore.ieee.org/xpls/abs\_all.jsp?arnumber=1549967&tag=1