

## **PROGRAMA DE DOCTORADO DE LA EPN**

**Módulo I+D+i**

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### **Typical Phrases used in writing English papers**

## **Abstract**

**Introductory sentences:**

The paper/article discusses/deals with/analyses/considers/explains/describes/establishes/introduces .....  
develops/presents/provides/studies/represents/features/contains/concentrates on .....  
covers/suggests/proposes/shows .....  
demonstrates the feasibility of .....  
opens up a new field/issue gives/aims to give a comprehensive account of .....  
offers a solution to .....  
serves as an introduction to .....  
The main objective/goal/purpose of the paper/article is .....

## **Sections of the paper**

**Introduction:**

..... plays an important/vital role in .....  
..... is an important issue for .....  
..... is extensively/widely used in .....  
..... is a very effective method for .....  
In the last few years there has been a growing interest in .....  
Quite recently, considerable attention has been paid to .....  
..... have/has been gaining importance in recent years .....  
..... have/has been utilized in many applications such as .....

**Referring to the sources in general:**

Current research on ..... is focused on ..... Previous studies indicate that .....  
The literature on ..... shows a variety of approaches  
Much research on ..... has been done.  
The focus of recent research has been on ..... ..... has/have been widely researched/investigated.  
In recent years, research on/into ..... has become very popular.  
In the last decade ..... has attracted much attention from research teams .....  
For several years great effort has been devoted to the study of .....  
Several publications have appeared in recent years documenting .....  
Previous research has documented/shown/demonstrated that .....  
To solve this problem/issue, many researchers have proposed various methods of (+-ing)  
In the literature, several theories have been proposed to explain .....

### Referring to individual authors:

..... and ..... are discussed in [3] and [6].

X [4] and Y [3] indicate that .....

X et al. [1] argue that .....

One of the first examples of ..... is presented in [2].

Another/The latest solution is described in [3].

The results obtained/offered by X in [5] suggest that .....

Recently, several authors [4], [5], [7] have proposed (a new theory) .....

X [2] and X [5] have demonstrated that .....

A/The most interesting approach to this issue has been proposed by [2].

X [6] has also found that ..... However, our researchers have arrived at the conclusion/have concluded that

.....

### Saying that little research has been done in a particular field:

However, to the author's/authors' best knowledge, very few publications can be found/are available in the literature that discuss/address the issue of ....

To the author's/authors' knowledge, ..... has/have been scarcely investigated from the point of view of ...../from the theoretical point of view.

### Pointing out limitations of previous research:

A key limitation of this research is that (it does not address the problem of .....) )

The major drawback of this approach is .....

However, most of the previous studies do not take into account .....

This approach may not be practical/orthodox/conventional in all situations.

Reference [3] analyses and compares various aspects of ..... Nevertheless, there are still some interesting and relevant problems to be addressed.

However, studies on ..... are still lacking.

The problem with this approach is in that it .....

Although several studies have indicated that ....., little attention has been paid/given to .....

### Problem statement, purpose/main objective of the paper

#### Problem statement and description of the objective of the paper:

(A ..... theory of ..... ) has recently been presented in [.....]. However, several practical questions arise when dealing with .....: 1) It is important to (identify .....). 2) It is key to (predict .....). 3. It is crucial to (establish when .....). To answer all these questions, we present an original approach which .....

Even though (the efficiency of .....) has been improved in recent years, most improvements have been achieved by (minimizing the amount of energy lost in .....). Nonetheless, it is possible to further improve (the efficiency by .....). With this goal, this work (explores, seeks to .....).

Based on the approach presented in [3], the purpose of this paper is to ....

In this paper, while we refer to our earlier work [2], [3], and [4], the focus is different.

## Framework of the paper:

The remainder of the paper is organized as follows/into ..... sections:

Section II describes/outlines ....., Section III discusses/analyses ..... . (Experimental results) are presented in Section IV; Section V concludes the paper. In Section II, ..... will be discussed. Section III is devoted to ..... . Section IV presents (the experimental results). The conclusion is reported in Section V. The proposed (design) is discussed in Section II (The implementation of the proposed design) is presented in Section III. Section IV shows (the experimental results of .....). Finally, Section V concludes with a summary.

## Body/Core of the paper

### General information:

The Body of the paper is very specific in its content. For this reason, the number of generally applicable phrases is smaller than in the other parts. Examples of some of these phrases are given below.

There are, however, linguistic means common to all kinds of research papers, i.e. words and phrases expressing cause, results, addition, similarity, etc. For lists and usage of these words and phrases see A Remedial Course in English Grammar: Clauses and Guidelines for Academic Writing: Text structure.

### Materials and Methods/Methods of Approach

#### Describing what was done and how it was done:

We started by investigating .....

We designed a new technique for .....

We used a new approach.

These experiments were carried out to find out .....

In order to verify the validity of the ..... method, we carried out several experiments.

All the tests/measurements were carried out at room temperature.

The (signals) were measured before and after .....

To illustrate ....., a simulation was performed.

#### Describing numerical methods:

The equation that describes ..... is as follows:

Equation (2) represents/defines/expresses .....

The equation can be written as ....., where .....

Thus, the following equation is obtained:

..... can be computed by the following equation:

Equations (5) and (6) approximate (the original formulas).

..... satisfies equation (3).

### Referring to/Describing figures, graphs, tables, diagrams

Fig. 2 shows/presents/depicts/outlines/illustrates/represents .....

Fig. 3 gives an example of .....

Such cases are depicted in the following figures.

This is illustrated in Fig. 5.

..... is/are shown/given in Figs. 3 and 4.

..... can be found in Fig. 8. Consider Fig. 2, which plots ..... versus/against .....

As can be seen from Figs. 5 and 3, .....

#### **Common mistake**

<u>Wrong</u>	<u>Right</u>
As shown in the Fig. 1	As shown in Fig. 1
The Fig. 2 presents .....	Fig. 2 presents .....

#### **Results**

It has been found that .....

The results show that .....

The results thus obtained are compatible with .....

The overall measurement results are summarized in Table II.

As mentioned earlier/above, .....

The previous sections have shown that .....

This method is based on .....

The method was tested on .....

#### **Discussion**

##### **Stating the main objective:**

In this paper we propose/examine/study .....

This paper proposes/has proposed .....

The purpose of the paper/study is to .....

The paper presents/has presented several solutions to .....

This paper is a modest contribution to the ongoing discussions about/on .....

It was the main purpose of the paper to draw attention to .....

##### **Specifying the objective:**

Particular attention is paid to .....

The author's attention was focused/concentrated not only on ..... but also on .....

We have addressed not only ..... but also .....

We have also considered the consequences of .....

##### **Pointing out the originality of the solution:**

Our paper presents an innovative/a novel view of .....

The originality of our solution lies in the fact that .....

This is a novel solution to .....

Our results describe for the first time the .....

To our knowledge, this is the first study to deal with/examine/investigate .....

Only one other study, to our knowledge, has come up with .....

This paper presents a pilot study to find the answer to .....

Our observations that ..... are not new, but .....

### Interpreting the facts:

The data obtained is/are broadly consistent with the major trends .....

These results agree/concur/are consistent/are in good agreement with other studies which have shown that .....

In contrast to some reports in the literature, there were .....

An important implication of these findings is that .....

The finding was quite unexpected/surprising and suggests that .....

### Stating the limitations of the research:

The main limitation of the experimental result is .....

One question still unanswered is whether .....

The analysis does not enable us to determine .....

These results are not conclusive.

### Conclusion(s)

The Conclusion(s) section usually starts with

### Stating the objective:

The objective presented in the Conclusion(s) section should agree with the objective stated in the Introduction. For suitable phrases see Introduction and Discussion.

### Drawing conclusions:

Based on the results, it can be concluded that the research into ..... has been very successful.

From the outcome of our investigation it is possible to conclude that .....

The findings of our research are quite convincing, and thus the following conclusions can be drawn: .....

### Suggesting possible application(s):

The proposed method can be readily used in practice.

The technique/approach/result is applicable to ..... ..... can be successfully used for a number of ..... applications.

The/our ..... has great potential for other applications such as .....

## Suggesting further research:

In our future research we intend to concentrate on .....

Future work will involve .....

On the basis of the promising findings presented in this paper, work on the remaining issues is continuing and will be presented in future papers.

The next stage of our research will be (experimental confirmation of our theory).

Further study of the issue would be of interest.

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- many useful comments and discussions on .....

- their valuable insights and recommendations

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for the research

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