

## [MLG004] Production of Scientific Texts

### GENERAL INFORMATION

<b>Studies</b>	UNIVERSITY MASTER'S DEGREE IN PRODUCTIVE LOGISTICS OPERATIONS MANAGEMENT	<b>Subject</b>	Methodological Research Foundations
<b>Semester</b>	1	<b>Course</b>	2
<b>Character</b>	OPTIONAL	<b>Mention / Field of specialisation</b>	???
<b>Plan</b>	2022	<b>Modality</b>	Face-to-face
<b>Credits</b>	3	<b>Hours/week</b>	0
		<b>Language</b>	CASTELLANO
		<b>Total hours</b>	36 class hours + 39 non-class hours = <b>75 total hours</b>

### PROFESSORS

(No professor appointed)

### REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
(No specific previous subjects required)	(No previous knowledge required)

### LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
<b>MLRA19</b> - To demonstrate capacity for the management of technological Research, Development and Innovation		x		1,5
<b>MLR128</b> - To communicate your conclusions and the knowledge and ultimate reasons that support them to specialized and non-specialized audiences in a clear and unambiguous way		x		1,5
<b>Total:</b>				<b>3</b>

KC: Knowledge or Content / SK: Skills / AB: Abilities

### SECONDARY LEARNING RESULTS

#### **RLM010** [!] *Demostrar capacidad para la gestión de la Investigación, Desarrollo e Innovación tecnológica*

##### LEARNING ACTIVITIES

	CH	NCH	TH
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	24 h.	13,5 h.	37,5 h.

##### EVALUATION SYSTEM

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

W

100%

##### MAKE-UP MECHANISMS

(No mechanisms)

**CH - Class hours:** 24 h.

**NCH - Non-class hours:** 13,5 h.

**TH - Total hours:** 37,5 h.

#### **RLM011** [!] *Comunicar sus conclusiones y los conocimientos y razones últimas que las sustentan a públicos especializados y no especializados de un modo claro y sin ambigüedades*

##### LEARNING ACTIVITIES

	CH	NCH	TH
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	12 h.	25,5 h.	37,5 h.

##### EVALUATION SYSTEM

Individual written and/or oral tests or individual coding/programming tests

W

100%

##### MAKE-UP MECHANISMS

(No mechanisms)

**CH - Class hours:** 12 h.

**NCH - Non-class hours:** 25,5 h.

**TH - Total hours:** 37,5 h.

## CONTENTS

Presentation.

1. Introduction: LaTeX vs. Word-OpenOffice
2. Installation and configuration of LaTeX
3. My first LaTeX document
4. Project: Curriculum Vitae

Structure of a document, the article.

1. Types of documents (book/article/...)
2. Structure of a document, article.
3. Project: Formatting an article.

Bibliographic management.

1. Bibliographic management programs.
2. Jabref
3. Bibtex4Word
4. Project: Use a model of a scientific journal and add bibliography.

Floating Elements, Formulas, and Tables (LaTeX & Word)

1. Formula writing (in line, centered).
2. Formatting of tables
3. Cross-references, footnote,...
4. Project: Complete the article with formulas.

Floating elements, graphics (LaTeX & Word)

1. Graphics formats, conversion between formats.
2. Graphics generation, (Matlab, OpenOffice,...)
3. Project: add graphics to the article.

Structure of a document, book, thesis.

1. Indexes, general, images, tables,...
2. Structure of the book, chapter, section, page numbering...
3. Use of multiple files, organization, documentation management (LaTeX).
4. Use of thesis templates at MGEP (LaTeX & Word)

Final work: write a document using MGEP's thesis template.

## LEARNING RESOURCES AND BIBLIOGRAPHY

### Learning resources

Moodle Platform  
Subject notes  
Specific Master Software

### Bibliography

El libro de LaTeX Bernardo Cascales, Pascual Lucas, José Manuel Mira, Antonio Pallarés y Salvador Sánchez-Pedreño. Prentice Hall, Madrid, 2003. ISBN: 84-205-3779-9  
The TeXbook by Donald Knuth [1986] (ISBN: 0-201-13447-0)  
The LaTeX companion, 2nd edition Frank Mittelbach, Michel Goossens with Johannes Braams, David Carlisle, and Chris Rowle  
Digital typography using LaTeX Apostolos Syropoulos, Antonis Tsolomitis, Nick Sofroniou  
The Not So Short Introduction to LaTeX 2e by Oetiker, Partl, Hyna, Schlegl [2008] (ISBN: none) pages: xiv+139.  
Edición de textos científicos LaTeX 2021. Mora. W, Borbon. A. Instituto tecnológico de Costa Rica