Universidad del País Vasco — Euskal Herriko Unibertsitatea

COURSE GUIDE 2025/26

Faculty 345 - Faculty of Engineering - Bilbao **Cycle** .

Degree INGMA702 - Master in Advanced Materials Engineering **Year** .

COURSE

503333 - Scientific Writing and Presentation **Credits, ECTS:** 4,5

COURSE DESCRIPTION

This ESP (English for Specific Purposes) course is designed for adult learners at a tertiary level institution. The course meets specific needs of the learners since it is centered on the language appropriate to the activities carried out in terms of grammar, lexis, register, study skills, discourse and genre. Moreover, the students are trained to present professionally in English since this can give their careers a boost and propel them up a corporate ladder.
The course is designed for a specific discipline, Industrial Engineering, and more specifically, for Advanced Materials in Engineering. A certain knowledge of the language systems is assumed [in other words, it is designed for students with at least an intermediate level (B2)].
This lingua franca, needless to say, is a fundamental tool for engineers. Professional success and gaining knowledge about new technologies and science are strongly linked. Avant-garde discoveries are usually published in scientific papers printed in English.
Our approach will focus on helping the students:
1 To find appropriate information about any subject or topic using different resources.
2.-To use the specific terms required for a fluent oral and written communication in professional environments related to Materials in Engineering.
3 To understand basic structure of scientific paper and to use correctly the linguistic structures required for an effective scientific written communication.
4 To present any scientific work effectively in front of an audience.
Moreover, it will focus on helping them:
5 To show a positive attitude towards the usage of the English language in all fields, striving for communicating and participating in class activities, as well as for overcoming learning difficulties.
6 To develop the awareness of the importance of activities such as oral presentations.
The learning process will be developed through content-based materials, with related exercises and activities designed for the specific needs of the learner

COMPETENCIES/LEARNING RESULTS FOR THE SUBJECT

COMPETENCIAS DE LA ASIGNATURA

IM15-Transmit scientific information, orally or in writing; internationally
IM12-Collect information, as well as select and critically analyze it

RESULTADOS DE APRENDIZAJE DE LA ASIGNATURA

Theoretical and Practical Contents

SECTION I- VOCABULARY
unit 1- phonetics
unit 2.- mathematical and scientific symbols
unit 3.-the metric system
unit 4.- engineering materials. motion.
unit 5- elements and atoms
unit 6-. iron. steel
unit 7-corrosion
unit 8- composite materials
SECTION II- SCIENTIFIC WRITING
unit 1- Information search and Management
unit 2.- using graphical elements
unit 3.-tables
unit 4.- dealing with equations
unit 5- numbers and SI system
unit 6-. Guideline for writing a Scientific paper
SECTION III- PRESENTATIONS
unit 1- Introduction
unit 2.- Planning
unit 3.-Structure
unit 4.- Design
unit 5- Oral presentation
unit 6-. Handling question-and-answer sessions

unit 7- Tips and Language to help you

METODOLOGIA (ACTIVIDADES FORMATIVAS)

Actividad Formativa	Hours	Porcentaje presencialidad
Computer practicals	0	0 %
Lectures	22,5	40 %
Classroom practicals	90	40 %

TYPES OF TEACHING

Types of teaching	M	S	GA	GL	GO	GCL	TA	TI	GCA
Hours of face-to-face teaching	10		35						
Horas de Actividad No Presencial del Alumno/a	10		57,5						

Legend:
M: Lecture-based
S: Seminar
GA: Applied classroom-based groups
GL: Applied laboratory-based groups
GO: Applied computer-based groups
GCL: Applied clinical-based groups
TA: Workshop
TI: Industrial workshop
GCA: Applied fieldwork groups

Evaluation tools and percentages of final mark

Denominación	Ponderación mínima	Ponderación máxima
Written examination	20 %	20 %
Presentations	35 %	35 %
Practical tasks	35 %	35 %
Questions to discuss	10 %	10 %

ORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

The final mark of the subject is divided into four parts:
• Final presentation 35%
• Final writing 35%
• Written exam 20%
• Questions to be developed (tasks) 10%

A) CONTINUOUS ASSESSMENT
For those students who attend classes regularly (i.e. more than 75%) and participate in the activities.
Conditions/Restrictions to get a pass in SCIENTIFIC WRITING AND PRESENTATION: to get 5 out of 10 in all parts.
B) NON-CONTINUOUS ASSESSMENT
For those students who do not attend classes regularly (i.e. less than 75%) or for those who attend them regularly but are not interested in the continuous assessment. Then, those students who fulfil the requirements included in will get a mark through the so-called -Evaluación Final- system. This mark will be provided exclusively by a -Final Written Examination-.

Final remarks:
1) The -Final Written Examination- will also be available for those students who attend classes regularly but do not reach a pass mark via continuous assessment.
2) If a student does not pass or does not participate in the Continuous Assessment process and does not sit the Final Written Examination (via Continuous Assessment or Non-Continuous Assessment) will not get a mark (EZ AURKEZTUA / NO PRESENTADO) and will be considered that s/he has given up the subject.

No exceptions will be contemplated in terms of attendance and tasks delivered in time for students taking part in the continuous assessment process.

It is properly reported on the Master´s website:
http://www.ehu.eus/es/web/masteringenieriamaterialesavanzados/egutegia-eta-ordutegia.
The schedules of the course and the dates of the ordinary call are available in the section CALENDAR and SCHEDULE of the Master´s website.
In the following link you can find also the examining board for the 3rd and 4th students calls.
http://www.ehu.eus/es/web/masteringenieriamaterialesavanzados/aurkezpena

The resignation form can be found in the first link.

In the event that an in-person assessment of the subject cannot be made, the relevant changes will be made for the completion of an online evaluation through the use of the existing computer tools in the UPV/EHU. The features of this online review will be published on eGela.

EXTRAORDINARY EXAMINATION PERIOD: GUIDELINES AND OPTING OUT

Those students who do not sit or do not pass first time the assessment will be via a Written Examination.
Conditions/Restrictions to get a pass in SCIENTIFIC WRITING AND PRESENTATION: to get 5 out of 10.
No exceptions will be contemplated in terms of attendance and tasks delivered in time for students taking part in the continuous assessment process.
It is properly reported on the Master´s website:
http://www.ehu.eus/es/web/masteringenieriamaterialesavanzados/egutegia-eta-ordutegia.
The schedules of the course and the dates of the extraordinary call are available in the section CALENDAR and SCHEDULE of the Master´s website

In the event that an in-person assessment of the subject cannot be made, the relevant changes will be made for the completion of an online evaluation through the use of the existing computer tools in the UPV/EHU. The features of this online review will be published on eGela.

MANDATORY MATERIALS

• Note book
• Exercises book

All the material needed is available in E-gela.

BIBLIOGRAPHY

Basic bibliography

[1] Barrass R. Scientist must write. 2a ed. Londres: editorial Taylor and Francis Group; 2005
[2]. Laplante P. A. Technical Writing: A practical Guide for Engineers and Scientists. Boca Raton. Editorial CRC Press; 2012
[3] Walters D. Eric y. Walters Gale C. Scientists must speak. 2a ed. Boca Raton. Editorial CRC Press; 2011
[4] Álvarez Marañon G. El arte de presentar. 10 a ed. Barcelona: editorial Gestión 2000; 2018.

Detailed bibliography

[1] Gastel B. y. Day R. A. How to Write and Publish a Scientific Paper. 8 a ed. Cambridge: editorial Cambridge University Press; 2017
[2] Berger R.E. A. A Scientific Approach to Writing for Engineers and Scientists.1a ed. New Jersey: Editorial John Wiley and Sons; 2014
[3] Donovan J. Método TED para hablar en público. 1a ed. España: editorial Ariel; 2014.
[4] E. & N. GLENDINNING. Oxford English for Electrical and Mechanical Engineering. Oxford: Oxford University Press. Student's book. ISBN-13: 978-0-19-457392-4.
[5]Oxford Advanced Learner's Dictionary. 7th edition. Oxford University Press. ISBN-13: 978-0-19-4316064. ISBN-10: 0-194316068.
[6]R. V. HUGHSON. The Language of Chemical Engineering in English. New York: Regents Publishing Co. ISBN-0: 0-883453487.
[7]J. COCA PRADOS. Inglés para Química e Ingeniería Química. Barcelona: Ariel Editorial. ISBN: 978-84-344-8053-7.
[8] T. DUDLEY-EVANS. Writing Laboratory Reports. Australia: Nelson Wadsworth. ISBN-13: 978-0170067409. ISBN-10: 0-170067408. (Limited availability).
[9] J. K. NEUFELD. A Handbook for Technical Communication. New Jersey: Prentice Hall International. ISBN-10: 0-133822923.
[10] F. ZIMMERMAN. English for Science. New Jersey: Prentice Hall. ISBN-13: 978-0-13-2821797. ISBN-10: 0-13221796.
[11]W. SULLIVAN. Engineering Economy: International Version. 14th edition. New Jersey: Prentice Hall. ISBN-13: 98-0132083423. ISBN-10: 0-13-08342-6.

Journals

- English Teaching-Practice and Critique.
- English in Education

Web sites of interest

[1] Academic Phrasebank (www .phrasebank.manchester.ac.uk)
Provides lists of phrases to consider using in various parts of scientific papers.
[2] AuthorAID (www .authoraid.info/en/and www .authoraid.info/es/)
A Project mainly to help researchers in developing countries to write about and publish their work. Includes a resource

library containing materials in several languages. Also includes a blog and provides opportunity to seek mentors. Has links to many other resources.
[3] Creating Effective Poster Presentations
(www.ncsu.edu/project/posters/index.html)
Guidance on many aspects of poster presentation.
[4] Designing Conference Posters (colinpurrington .com/tips/poster-design)
Extensive guidance on preparing poster presentations. Includes templates for designing posters.
[5] Creative Commons (creativecommons .org)
[6] OneLook Dictionary Search (www .onelook .com)
Provides opportunity to seek definitions and related information in multiple dictionaries. Source of free licenses that can serve as an alternative to transferring copyright. Using standardized licenses, authors can specify which uses of their work they permit, and under what conditions.
[7] SciDev .Net Practical Guides
(www .scidev .net /global /content /practical –guides .html)
Expert advice mainly on aspects of communicating science.
[8] http://www.wordreference.com/es/
[9]http://www.howjsay.com/
[10]https://link.springer.com/
[11]https://www.nature.com/