

**COURSE DATA****DATA SUBJECT****Code:** 42263**Name:** Master's final project: speciality technology and industrial processing**Cycle:** Master's Degree**ECTS Credits:** 6**Academic year:** 2025-26**STUDY (S)**

Degree	Center	Acad. year	Period
2024 - Master's Degree in Secondary Education	Facultat de Formació del Professorat	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2024 - Master's Degree in Secondary Education	Practicum spec. Industrial processes and technology	ELECTIVES

COORDINATION

LLOPIS ALONSO FRANCISCO

SUMMARY

The Master's final project consists of an individual monograph, in which each student must demonstrate their ability to skill fully address the following aspects:

Submit a well-founded problem or innovative or research project on teaching and learning or on the educational context of the specialty in which they have completed the master's degree.

Develop the aforementioned problem or project by stating the relevant objectives and working hypotheses, in order to draw relevant empirical or theoretical conclusions.

Apply the knowledge and skills acquired throughout the other modules of the master's degree.

Synthesize and present the work completed in a Master's final project report.

Since the Master's final project encompasses the knowledge and skills acquired in the master's degree, your defense must be completed towards the end of the study period. As indicated in the Curriculum, students pursuing the master's degree part-time must enrol in the Master's final project in the second year.

PREVIOUS KNOWLEDGE

**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE****2024 - Master's Degree in Secondary Education**

Obligation to take the subject(s) simultaneously

- 40493 - Learning and personality development
- 40494 - Educational processes and contexts
- 40495 - Society, family and education
- 40538 - Additional training for the specialties of technology and industrial processes
- 40539 - Learning and teaching subjects in the specialties of technology and industrial processes
- 40540 - Teaching innovations and introduction to education research in technologies and industrial processes
- 40569 - Practicum. Technology and industrial processing

OTHER REQUIREMENTS**COMPETENCES / LEARNING OUTCOMES**

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Adquirir estrategias para estimular el esfuerzo del estudiante y promover su capacidad para aprender por sí mismo y con otros, y desarrollar habilidades de pensamiento y de decisión que faciliten la autonomía, la confianza e iniciativa personales.

Adquirir los conocimientos y estrategias para poder programar las áreas, materias y módulos que tengan encomendados.

Buscar, obtener, procesar y comunicar información (oral, impresa, audiovisual, digital o multimedia), transformarla en conocimiento y aplicarla en los procesos de enseñanza y aprendizaje en las materias propias de la especialización cursada.

Concretar el currículo que se vaya a implantar en un centro docente participando en la planificación colectiva del mismo; desarrollar y aplicar metodologías didácticas tanto grupales como personalizadas, adaptadas a la diversidad del alumnado.

Conocer la normativa y organización institucional del sistema educativo y modelos de mejora de la calidad con aplicación a los centros de enseñanza.

Conocer las estrategias y programas generales de orientación educativa, académica y profesional del alumnado.

Conocer los contenidos curriculares de las materias relativas a la especialización docente correspondiente, así como el cuerpo de conocimientos didácticos en torno a los procesos de enseñanza y aprendizaje respectivos. Para la formación profesional se incluirá el conocimiento de las respectivas profesiones.

Conocer los procedimientos de tutoría del alumnado, dirección y orientación de su aprendizaje y apoyo en su proceso educativo.

Conocer los procesos de interacción y comunicación en el aula, dominar destrezas y habilidades sociales necesarias para fomentar el aprendizaje y la convivencia en el aula, y abordar problemas de disciplina y



resolución de conflictos

Conocer y analizar las características históricas de la profesión docente, su situación actual, perspectivas e interrelación con la realidad social de cada época.

Diseñar y desarrollar espacios de aprendizaje con especial atención a la equidad, la educación emocional y en valores, la igualdad de derechos y oportunidades entre hombres y mujeres, la formación ciudadana y el respeto de los derechos humanos que faciliten la vida en sociedad, la toma de decisiones y la construcción de un futuro sostenible

Diseñar y realizar actividades formales y no formales que contribuyan a hacer del centro un lugar de participación y cultura en el entorno donde esté ubicado; desarrollar las funciones de tutoría y de orientación del alumnado de la etapa o área correspondiente, de manera colaborativa y coordinada; participar en la evaluación, investigación y la innovación de los procesos de enseñanza y aprendizaje.

Dominar estrategias y procedimientos de evaluación del proceso de aprendizaje del alumnado, así como de la evaluación de los procesos de enseñanza.

Informar y asesorar a las familias acerca del proceso de enseñanza y aprendizaje y sobre la orientación personal, académica y profesional de sus hijos.

It generates innovative and competitive proposals in professional activity and in educational research.

It is effective to communicate in both verbal and nonverbal terms.

Planificar, desarrollar y evaluar el proceso de enseñanza y aprendizaje potenciando procesos educativos que faciliten la adquisición de las competencias propias de las respectivas enseñanzas, atendiendo al nivel y formación previa de los/as estudiantes así como la orientación de los mismos, tanto individualmente como en colaboración con otros docentes y profesionales del centro.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should demonstrate self-directed learning skills for continued academic growth.

Students should possess and understand foundational knowledge that enables original thinking and research in the field.

DESCRIPTION OF CONTENTS

1. To raise a well-founded problem or an innovation or research project on teaching and learning.



2. Develop the aforementioned problem or project by proposing the relevant working hypotheses.
3. Apply the knowledge and skills acquired throughout the remaining modules of the Master's degree.
4. Synthesize and present the work developed in a report

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	10,00
Monitoring and tutoring of the master's thesis	10,00
Presentation and defence of the master's thesis	2,00
Total hours	22,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	0,00
Preparation of the master's thesis project	128,00
Total hours	128,00

TEACHING METHODOLOGY

The periodic tutorials with the director of the Master's Project will serve as advice to the students.

The memory of the TFM can have a diversity of structures and contents, depending on the preferences and traditions of the different specialties. As a suggestion, the following possible scheme is proposed:

0. Title and index
1. Introduction
2. Approach, problem, question or hypothesis and justification of your interest
3. Objectives
4. Theoretical mark
5. Methodological framework
6. Analysis and discussion
7. Conclusions
8. Bibliography



9. Annexes.

The TFM memory must have between 30 and 50 pages (not counting the cover, index and annexes).

EVALUATION

To be evaluated, the student will have to submit the report of the TFM, which will have to contain all the supporting information of the work. The digital version of the TFM will be deposited where the CCA deems it.

TFM defense

1. The date, time and place of the defense of each TFM will be made public through each one, of the evaluating courts, with a minimum advance of 7 calendar days to the date of reading.
2. The student will defend the work developed before the evaluating court during the time and manner established by the evaluating court and, then, the members of the evaluating court may discuss with the student the aspects that are considered pertinent about her work. The act is public.

Qualification

Once the defense of the TFM has been carried out, the evaluating court and the tutor will constitute a qualifying committee and will proceed to the qualification of the TFM. The tutor can participate with voice, but without vote.

For the evaluation of a TFM, the evaluating courts may take into account criteria such as:

- + The formal presentation and clarity of the work (writing, structure and balance between the parts, correct use of bibliographic citation, etc.).
- + The originality and authorship of the work done. The TFM have to be unpublished. Plagiarism or excessive use of fragments from other publications will lead to a fail grade.
- + The belonging or interest of the subject (innovative aspect, little studied, applicability, etc.).
- + The theoretical foundation (application of the contents of the master's degree, deepening, conceptualization, etc.).
- + The methodology used (techniques used, rigor in the application, etc.).
- + The results and conclusions presented (interest, rigor, relevant contributions, etc.).
- + The tutorials carried out (use of the interviews, attitude, perseverance, commitment, etc.). Each tutor will send a report of each TFM to the corresponding courts.

Any blatant copying or plagiarism of any assessment activity will result in the inability to pass the course, and the student will be subject to the appropriate disciplinary procedures outlined in the PROTOCOL FOR DEALING WITH FRAUDULENT PRACTICES AT THE UNIVERSITY OF VALENCIA (ACGUV 123/2020).

In any case, the assessment system will be governed by the provisions of the University of Valencia's Assessment and Grading Regulations for undergraduate and master's degrees (ACGUV 108/2017).

REFERENCES



VNIVERSITAT DE VALÈNCIA

Course Guide
42263 Master's final project: speciality technology and
industrial processing
