
Regulations and Procedure for the Master's Thesis (TFM) of the Master's Degree in Telecommunication Engineering.

Approved at the Comisión Académica de Mestrado on December 17 2025.

Approved at the Xunta de Escola of the EET on December 17 2025.

TFM Evaluation Rubric

I. PURPOSE

Each Master's Thesis (TFM) will be assessed according to the competencies specified in the subject's file in the degree report (MET):

General competencies

RAG05-HAB04. Ability for the development, strategic planning, direction, coordination, and technical and economic management of projects in all areas of Telecommunication Engineering following quality and environmental criteria.

RAG08-HAB06. Ability to apply acquired knowledge and solve problems in new or unfamiliar areas within broader multidisciplinary contexts, being able to integrate said knowledge.

RAG09-CON02. Ability to understand the responsibility and professional ethics in the activity of the profession of Telecommunications Engineering.

RAG11-HAB08. Ability to communicate (both orally and in writing) the conclusions —and the knowledge and ultimate reasons that support them— to specialised and non-specialised audiences in a clear and unambiguous manner.

RAG12-HAB09. Possess skills for continuous, self-directed, and autonomous learning.

Specific competencies

RA17-COMP08. Execution, presentation, and defence, once all the credits from the study plan have been obtained, of an original individual exercise before a university assessment committee. This exercise should consist of a comprehensive Telecommunication Engineering project of a professional nature, synthesizing the competencies acquired in the program.

Transversal competencies

RAT02-COMP02. Develop sufficient autonomy to participate in research projects and scientific or technological collaborations within their field of expertise, in interdisciplinary contexts and, where appropriate, with a high component of knowledge transfer.

RAT03-CON04. Understanding Engineering in a framework for sustainable development.

RAT06-CON05. Acquire advanced knowledge and demonstrate, in a scientific and technological research context or highly specialised one, a detailed and grounded understanding of the theoretical and practical aspects and the work methodology in one or more fields of study.

RAT07-CON06. Knowledge and understanding needed to provide a basis or opportunity for being original in developing and/or applying ideas, often within a research context.

RAT10-HAB13. Be able to use Generative AI in an ethical, critical and responsible way.

RAT11-CON08. To know the limitations, risks and implications of the use of Generative AI.

II. EVALUATION

The evaluation of a TFM should consider these competencies and outcomes. The following rubric serves as a guide for the Assessment Committee during the evaluation process and helps tutors prepare their report.

Each criterion in the rubric will be assessed using a value between 0 and 10. Based on the scores for each criterion, two main scores will be obtained:

- **Technical aspects assessment.** This accounts for 60 % of the final grade and it is divided into the following criteria:
 - Overall approach of the thesis: 5 %
 - State of the art and needs analysis: 5 %
 - Definition of objectives: 10 %
 - Methodology and use of standards: 10 %
 - Proposed solution: 15 %
 - Results/Conclusions: 10 %
 - Bibliography: 5 %
- **Presentation and defence assessment.** This accounts for 40% of the final grade and it is divided into the following criteria:
 - Written documentation: 10 %
 - Oral presentation: 15 %
 - Discussion: 15 %

Exceptionally, if the committee believes that the above distribution does not align with the nature of the work presented, they may propose a justified direct assessment. The committee will generate a detailed PDF document outlining the grades according to the above criteria. This document will be signed by all members of the committee and sent to the TFM Coordinator.

	LEVEL 1 (insufficient)	LEVEL 2 (superficial)	LEVEL 3 (average)	LEVEL 4 (advanced)	Evaluated competencies
TFM TECHNICAL ASPECTS					
Overall approach to the thesis	Thesis does not correspond to a technological project in the field of telecommunications engineering.	Thesis is superficially related to the telecommunications engineering field.	Thesis is moderately related to the telecommunications engineering field.	Thesis is clearly related to the telecommunications engineering field.	RA17-COMP08 RAG09-CON02
State of the art and needs analysis	Non-existing or irrelevant study on the state of the art and needs analysis.	Simple and poorly documented study on the state of the art and needs analysis.	Standard study on the state of the art and needs analysis that provides some relevant documentation.	Advanced study on the state of the art and needs analysis provides highly pertinent documentation.	RAG11-HAB08 RAT02-COMP02
Definition of objectives	Lack of a global vision of the raised problem. As a result, objectives are not clearly defined.	Superficial understanding of the problem raised, resulting in vaguely defined objectives.	Comprehensive understanding of the raised problem. Objectives are clearly explained.	Excellent understanding of the problem. Organized, clear, and precise exposition of the objectives to be achieved in the thesis.	RAG05-HAB04 RAG09-CON02 RAT03-CON04
Methodology and use of standards	Methodology is not clear and does not guarantee objective achievement.	Methodology should be clearer to ensure objective achievement. Superficial and not well justified use of	Methodology was explained but lacks necessary rigor. Correct use of technical specifications, norms	Methodology is clearly presented. Appropriate and correctly justified use of technical	RAG05-HAB04 RAT06-CON05

	Lack of any technical specifications, norms and/or standard solutions in its field. It does not rationally justify this decision.	technical specifications, norms and/or standard solutions in its field.	and/or standard solutions in its field. It is correctly justified but could be improved.	specifications, norms and/or standard solutions in its field. If applicable, it reasonably justifies not using this type of documentation in the thesis.	
Proposed solution	The student does not show initiative or creativity in making decisions to solve raised problems. Lack of awareness, if applicable, on the implications and consequences of the proposed solutions (impact on privacy, security, etc.). Common problems, such as integration into more complex systems, maintenance, and adaptation, were not addressed.	The student shows some initiative and creativity in making decisions to solve raised problems. Slight awareness, if applicable, of the implications and consequences of the proposed solutions (impact on privacy, security, etc.). Common problems, such as integration into more complex systems, maintenance, and adaptation, were not addressed or were addressed simply and insufficiently.	The student shows initiative and creativity in making decisions to solve raised problems. Moderate awareness, if applicable, of the implications and consequences of the proposed solutions (impact on privacy, security, etc.). Common problems, such as integration into more complex systems, maintenance, and adaptation, were addressed, but not deeply and rigorously.	The student stands out for its initiative and creativity in making decisions to solve raised problems. Clear awareness, if applicable, of the implications and consequences of the proposed solutions (impact on privacy, security, etc.). Common problems, such as integration into more complex systems, maintenance, and adaptation, were addressed in-depth and rigorously.	RAT07-CON06 RAG08-HAB06 RAG09-CON02 RAG12-HAB09 RAT02-COMP02 RAT03-CON04 RAT10-HAB13 RAT11-CON08

Results / Conclusions	Presentation of results is poor and falls short in the analysis.	Presentation of results is sufficient but was not approached with the necessary global vision.	Presentation of results is adequate and complete.	Presentation of results stands out for being complete, rigorously approached, and shows a clear analysis skill.	RAG08-HAB06 RAG12-HAB09 RAT02-COMP02
Bibliography	Bibliographic references are irrelevant and/or incomplete.	Bibliographic references have some relevance, but are not recent, complete, and/or did not come from reputable sources.	Bibliographic references are mostly relevant, relatively recent, complete for the most part, and mostly came from reputable sources.	Bibliographic references are quite relevant, recent, complete and came from reputable sources.	RAG12-HAB09 RAT06-CON05 RAT11-CON08
TFM PRESENTATION AND DEFENCE					
Written documentation	The student was unable to effectively communicate the work performed in the report. Structure and writing lack clarity. Charts, tables, and images provided are not relevant or do not meet the necessary quality standards. Formatting guidelines were not followed and	The student communicates the work performed in the report in a basic manner. Structure and writing are not sufficiently clear. Charts, tables, and images provided are not quite relevant or do not meet the necessary quality standards. Formatting guidelines	The student adequately communicates the work performed in the report. Structure and writing are clear. Charts, tables, and images provided are relevant and meet the necessary quality standards. Formatting guidelines were followed correctly.	The student stands out in conveying the work performed in the report.	RAG11-HAB08

	there are serious spelling errors.	were not followed correctly.			
Oral presentation	The student fails to effectively communicate the work performed in the oral presentation. The time limit was not respected, relevant parts of the work were left unexplained, and the vocabulary used was not appropriate in the technical context of the thesis. Presentation lacks sufficient proficiency.	The student manages to sufficiently communicate the work performed in the oral presentation, although not entirely adhering to time constraints. Some parts of the work were not correctly explained, and the technical vocabulary should be more appropriate to the content of the thesis.	The student effectively communicates the work performed in the oral presentation, which was adapted to the time limit. All the important parts of the thesis were addressed, and technical vocabulary was applied correctly.	The student excels in the oral presentation of their work, adhering to time constraints, covering all relevant aspects, and employing technical vocabulary appropriately.	RAG11-HAB08
Discussion	The student fails to adequately defend the work performed in the discussion with the assessment committee. Answers are not adequate and show serious deficiencies in their technical proficiency.	The student defends the work performed in the discussion with the assessment committee. There is a lack of effective answers to relevant aspects of the thesis.	The student effectively defends the work performed in the discussion with the assessment committee. Answers are acceptable.	The student excels in the discussion with the assessment committee. All answers are suitable and show the student's knowledge in the thesis's subject matter.	RAG11-HAB08 RA17-COMP08 RAT06-CON05