

Intended Learning Outcomes:

This CU comprises the entire process that leads to the elaboration and defence of the written document, the Dissertation, which synthesizes the research conducted by the student during the last semester.

In the context of the Structural Engineering, the Dissertation aims at improving and assessing the aptitude of the students to develop autonomous work and to apply the acquired knowledge in solving new complex engineering challenges. This exercise develops during a relatively long period when comparing to typical Engineering projects and its context is wide and multidisciplinary.

The student is expected to develop his ability to carry out bibliographical research and to synthesize the current state of knowledge. Starting from this solid knowledge platform, the student is expected to analyse complex problems and relate multidisciplinary contents, to develop innovative solutions and analytical models, to discuss critically its own research results and the ones by other authors and to be fully aware of their ethical and social implications. At the end of the Dissertation, the student is expected to show the ability to synthesize and communicate the results of his work in a clear and enriching fashion, as well as to show competences to autonomously embrace challenging Engineering problems with confidence.