

**Optional Unit: Radiation to Photonics project
(2 ECTS) RADMEP/ UJM semester 3**

Course instructors: Ass. Prof. A. Morana, Prof. S. Girard **Language of instruction:** English

Overview

The students will have the opportunity to work on a small research topic proposed by one of the RADMEP partner and related to the photonic technologies. The idea will be to analyze the problem to be solved, to identify the relevant literature, to suggest the approach to be followed (experimental, theoretical or combined approach) to solve the problem and to realize the analysis. This unit will offer to the students the opportunity to work on a complete project in interaction with one or several RADMEP partners. The topics will be renewed each year.

Learning outcomes

On successful completion of this course, students should have the skills and knowledge to:

- Understand and analyze a research proposal
- Identify, formulate and solve practical problems related to the use of photonic technologies in harsh environments
- Critically review and assess scientific literature in the field and apply knowledge to identify the novelty and practicality of proposed methods.
- Design and develop practical or theoretical approaches adapted to a given project

Evaluation criteria

- Assignments / Labs 50%
- Seminar presentations 50%