UNIVERSITÀ DEGLI STUDI DI TORINO

ID

VP116_DIP_FIS

Visiting Professor Program
Academic year 2022/2023

TEACHING COMMITMENT: 48 hours

COURSE TITLE

Medical Physics

TEACHING PERIOD

2nd term

SCIENTIFIC AREA

Physics

LANGUAGE USED TO TEACH

English

COURSE SUMMARY

To give the basics in physics applied to medicine, especially with respect to use and detection of ionizing radiation in therapy and imaging.

LEARNING OBJECTIVES

A) Knowledge and understanding

- Knowledge of the basics of the interaction of ionizing radiation with biological tissue and dosimetry;
- Knowledge of some models of cellular inactivation induced by radiation;
- Understanding of the physics needed in the application to medicine of ionizing radiation in therapy, imaging and radiation protection.

B) Applying knowledge and understanding

- Ability in solving numerical problems used in some techniques of medical physics, radiotherapy, imaging and radiation protection.

TUTORSHIP ACTIVITIES

N/A

LAB ACTIVITIES

N/A

OTHER ACTIVITIES BESIDES THE COURSE

N/A

VISITING PROFESSOR PROFILE

The Candidate will have a strong involvement in teaching and research in the field of Experimental Physics applied to Medicine, with particular emphasis on the experimental tools to be used in the diagnosis and cure of cancer and, more in general, in the use of radiation in Medicine.
PLEASE NOTE: The teaching must be held in presence. The candidate must be available to guarantee his/her presence in Turin for a period of 3 months. In case, for any reason, the teaching cannot be carry out in presence, the position won't be activated.

CONTACT PERSON AT THE DEPARTMENT

Prof. Roberto Cirio
roberto.cirio@unito.it