

Title: Introduction to Medical Physics

Lecturer: Dr Marco Silari

Date and Times:

- 1st August at 11:15

Summary of the proposed talk:

The lecture will first briefly review physical discoveries and tools developed for physics which later found applications in medicine, and then it will illustrate the most relevant of these applications: magnetic resonance imaging, computerized tomography, single photon emission computerized tomography, positron emission tomography, and conventional and advanced radiation therapy.

Prerequisite knowledge and references:

None

**Biography-
Brief CV:**

Marco Silari received a degree in applied physics in 1982 and a PhD in medical physics in 1985, both from the University of Milano. In the beginning of his career he spent two years as visiting scientist at the Cyclotron Unit of the Medical Research Council, Hammersmith Hospital, London. From 1984 to 1995 he was researcher with the Italian National Research Council. In the years 1991 to 1995 he worked with Prof. Ugo Amaldi on a project for a medical hadrontherapy centre. He is at CERN since 1996, in the Radiation Protection group, deputy group leader since 2000. He is author of more 120 publications in international journals or international conference proceedings.

Publications: