

## **BIOPHOTONICS FOR CLINICA AND ENVIRONMENT**

Maria Lepore, Ines Delfino

4 CFU (20 hours)

The course will deal with the application of optical techniques to the development of new diagnostic strategies and environment monitoring tools. The basic theory and the experimental aspects of optical spectroscopy techniques (UV-Vis absorption, fluorescence, vibrational and multiphoton spectroscopies) will be discussed. A selections of applications used for investigating biofluids, human tissues, radio exposed cells and enzymes in order to monitor biological processes and to develop sensor devices will be presented.

### **Lectures schedules**

Monday 3 April	14.00-16.00
Wednesday 12 April	14.00-16.00
Monday 17 April	14.00-16.00
Wednesday 27 April	14.00-16.00
Wednesday 03 May	14.00-17. 00
Monday 8 May	14.00-17. 00
Monday 15 May	14.00-17. 00
Monday 22 May	14.00-17. 00