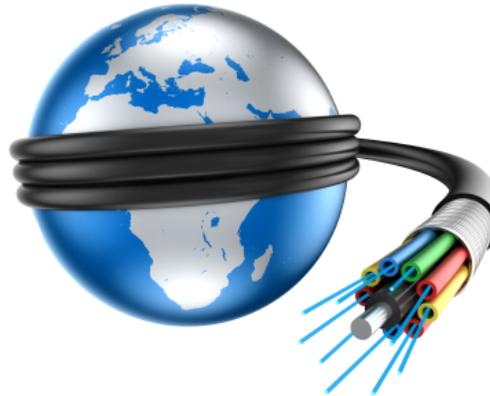




Scuola Superiore Sant'Anna di studi e di perfezionamento



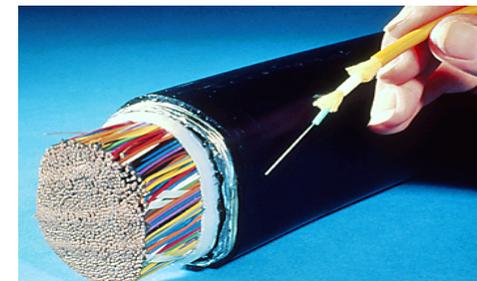
## **Lab of Photonics Systems (LabPS)**

**Ernesto Ciaramella**



# Course Contents

- Course is structured in 2 parts
- The first provides a detailed theoretical analysis of transmission problems that must be considered in the design of today optical systems, such as fiber propagation effects (both linear and nonlinear).
- The second part, which has a strong experimental flavour, introduces the student to the practical knowledge and use of key components and experimental techniques in the field of photonic systems. The course will also illustrate the principles of operation of the main equipment for analysis and measurement (including oscilloscopes, sampling oscilloscopes, spectrum analyzers etc.).





# Lab of Photonics Systems

- Aim:
  - to provide fundamentals of designing of optical systems
  - to introduce the basic concepts of instrumentation and devices used in optical communication systems
  - **“hands-on”** course (40% of the course is carried out in a real, state-of-the-art optical communication lab)
- Course Teachers: Prof. Ernesto Ciaramella, Dr. Marco Presi
- Semester: 1
- Credits: 6 ECTS
- Exam: Oral + evaluation of the lab book



# Contact Information

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