

## **Fabrication processes for Micro- and Nano-systems**

Introduction to the microelectronics technology of the group-IV semiconductors.

Lithography processes and materials (optical and electron-beam)

Plasma etching (plasma physics, surface chemical reactions)

Thermal oxidization and oxi-nitritization

Ion implantation and diffusion of dopants

Thin film processes (thermal evaporation, chemical vapor deposition)

Electronic devices interconnection technology (back-end)