



**ELENCO DEI CORSI DELLA SCUOLA DI DOTTORATO DEL  
POLITECNICO DI BARI – VIII BANDO  
(A. A. 2022-2023)**

1. Institutions of Spaceflight, SSD ING-INF/01, 2 CFU.

Syllabus:

- Why reaching Space; the dawn of Spaceflight;
- Execution of a Space Project (two hours);
- Space Industry evolution;
- International Space Projects;
- Working at NASA;
- Human spaceflight;
- Platforms to access space;
- New Space Economy Overview;
- Spaceports;
- Italy and Space;
- Innovation and space culture;
- Regulatory regime in Italy/Europe.

2. Lab on a chip: microfabrication, applications at the point-of-care and industrial exploitation, ING-INF/01, 2 CFU

Syllabus:

- Realization of a biosensor (case studies);
- Materials;
- Micro and nanofabrication methods;
- Integration;
- Biological applications;
- Industrial exploitation, protection results and basic intellectual property knowledge.