

Faculty	Ingegneria
Bachelor	Mechanical Engineering (La Spezia)
Year/Semester	1/II

Course Title	Computer science for industrial engineering
ID Course Code	56761
Course Credits (CFU)	6
Scientific-Disciplinary Sector	ING-INF/05
Course Type	mono-disciplinary course
Lecturer-in-charge	CAFFAZ Andrea

Learning Outcomes:

In the first part of the course consist on an overview of the hardware architecture of a generic information elaboration system (SEI). In the second part of the course will be shown the basic programming techniques. As a practical example of programming language will be used Fortran 90/95

Course Organisation Details

First part: Von Neumann architecture, CPU, memory, I/O devices, basic concept of operative system, computer networks.

Second parts: Basic element of Fortran, Control structure and program design, basic I/O concepts, Array, procedures and structure programming.

Assessment	hours
Lectures	52.0
Practice	10.0
Laboratory	0.0
Integrative activities	0.0

References

Autore/i, *Titolo*, Editore, anno; Stephen J. Chapmann, Introduction to Fortran 90/95, McGraw-Hill's

Organization and examinations

The course consist in theoretical lesson and practical computer implementation.

Oral and written final test.

Pre-requisites

nothing