Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
ING135		1	2	0	2	3	5

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	To provide students with the ability to write computer code capable of solving industrial engineering problems with the help of the Python programming language.
Content	• Computers and Programming • Turtle Graphics • Input, Processing, and Output • Decision Structures and Boolean Logic • Repetition Structures • Functions • Files and Exceptions • Recursion • Strings • Lists and Tuples • Dictionaries and Sets
References	1. Documentation Python 3.11.2, https://docs.python.org/fr/3/ 2. Gaddis, T., Starting Out with Python, 6th Edition, Pearson, 2023. 3. Matthes, E., Python Crash Course, 3rd Edition: A Hands-On, Project-Based Introduction to Programming 3rd Edition, No Starch Press, 2023. 4. Sweigart, A., Invent with Python, https://inventwithpython.com/

Theory Topics

Week	Weekly Contents
1	Computers and Programming
2	Turtle Graphics
3	Input, Processing, and Output
4	Decision Structures and Boolean Logic
5	Repetition Structures
6	Functions 1
7	Functions 2
8	Midterm Exam
9	Files and Exceptions
10	Recursion
11	Strings
12	Lists and Tuples
13	Dictionaries and Sets
14	Course Review