



Isinc1101

2024

Computer Science 1: Introduction to Programming

5.00 credits

30.0 h + 30.0 h

Q1



This learning unit is not open to incoming exchange students!

Teacher(s)

<p>Content</p>	<ul style="list-style-type: none"> • Programs, source code and program execution • Identifiers, variables, values, types, assignment • Expressions, statements • Conditional structures and loops • Functions, parameters, calls, results, execution, variable scoping • Specifications and tests • Modules • Data structures, lists, strings and their operations • References and nested data structures • Nested lists, tuples, matrices, dictionnaires • Dichotomic search algorithms • File handling, input/output • Exception handling • Object-oriented programming and garbage collection • Classes, objects, constructors, methods • References to an object, self-references and self-calls • Class, instance and local variables, scope and visibility • Class composition, inheritance and encapsulation • Polymorphism, super calls and dynamic binding • Object equality • Linked data structures
<p>Inline resources</p>	<p>All course material will be made available online: slides, syllabus, exercices, ...</p>
<p>Faculty or entity in charge</p>	<p>SINC</p>

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Computer Science	SINC1BA	5		