

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF102	Introduction to Programming	1	2	0	2	3	4

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	This course introduces the basic concepts of C language and algorithms, which are illustrated and applied in exercise sessions by the students.
Content	<ol style="list-style-type: none">1. Integers and images encoding2. Different types of C variables and constants3. Expressions and Operators4. Iterative and conditional instructions5. Pointers and arrays6. Functions
References	<p>Lecture notes and practical sessions : http://kikencere.gsu.edu.tr</p> <ul style="list-style-type: none">• Le langage C, norme ANSI, édition Dunod, B Kernighan, D Ritchie• Introduction à l'algorithmique, 2ème édition, Thomas Cormen et al, Dunod, 2002.• Méthodologie de la programmation en C, 4ème édition, Achille Braquelaire, Dunod, 2005.• Langage C, Claude Delannoy, Eyrolles, 2002.

Theory Topics

Week	Weekly Contents
1	Methods of encoding integers and image
2	Methods of encoding real numbers
3	Methods of encoding images
4	Different types of C variables and constants
5	Expressions and Operators
6	Conditional and iterative instructions
7	Iterative instructions
8	midterm exam
9	pointers
10	Functions passing their arguments by value
11	Functions passing their arguments by adresse static array
12	array
13	pointers and array