

## 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"><li>1. Integers and images encoding</li><li>2. Different types of C variables and constants</li><li>3. Expressions and Operators</li><li>4. Iterative and conditional instructions</li><li>5. Pointers and arrays</li><li>6. Functions</li></ol>
References	Lecture notes and practical sessions : <a href="http://kikencere.gsu.edu.tr">http://kikencere.gsu.edu.tr</a> <ul style="list-style-type: none"><li>• Le langage C, norme ANSI, édition Dunod, B Kernighan, D Ritchie</li><li>• Introduction à l'algorithmique, 2ème édition, Thomas Cormen et al, Dunod, 2002.</li><li>• Méthodologie de la programmation en C, 4ème édition, Achille Braquelaire, Dunod, 2005.</li><li>• Langage C, Claude Delannoy, Eyrolles, 2002.</li></ul>

## 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