


# UE Computer sciences methods and programming techniques - INF131 -

 ECTS  
6 crédits

 Composante  
Département  
de la licence  
sciences et  
technologies  
(DLST)

 Période de  
l'année  
Automne (sept.  
à dec./janv.)

- > **Langue(s) d'enseignement:** Anglais
- > **Ouvert aux étudiants en échange:** Oui

## Présentation

### Description

It gives the basis of algorithmics: data types (integers, floats, booleans, strings, lists, dictionaries), instructions (conditional, iterations), functions. The goal is to learn the algorithmic approach of solving a problem: writing an algorithm, then implementing it in a computer language (here Python). Classical algorithms studied include: searching (minimum, maximum), counting, sorting data. The focus is on writing clear, commented and efficient code, some notions of complexity are given.

### Heures d'enseignement

|  |                                   |     |
|--|-----------------------------------|-----|
| UE Computer sciences methods and programming techniques - TD   | TD                                | 18h |
| UE Computer sciences methods and programming techniques - CMTD | Cours magistral - Travaux dirigés | 18h |
| UE Computer sciences methods and programming techniques - TP   | TP                                | 27h |

**Période :** Semestre 1

# Infos pratiques

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## Campus

› Grenoble - Domaine universitaire