

Algorithmic and data structures 2

✦ Practical information ✦

- **Subject title** : Algorithms and Data Structures 2
- **Teaching unit** : Fondamental (UEF22)
- **Semestre** : 02
- **Academic year** : 2023/2024
- **Coefficient** : 4
- **Credits** : 6
- **V.H:** 1.5h lecture, 1.5h TD, 1.5h TP 3 Personal work
- **Evaluation mode** : TD :20%, TP:20%, Final exam: 60%.
- **Teacher responsible for the subject** : TAHRI Zohair
- **Email** : zohaie.tahri@univ-msila.dz
- **Useful websites** : <https://elearning.univ-msila.dz/moodle/>
- **Facebook:** قسم الرياضيات-جامعة محمد بوضياف المسيلة

✦ Content of the Course ✦

1. Chapter 1 :Sub-programs (Functions and Procedures)

1. Introduction
2. Definitions
3. Local and global variables
4. Parameter Passing
5. Recursivity

2. Chapter 2 : Files

1. Introduction
2. Definitions
3. File types
4. File handling
5. Example

3. Chapter 3: Linked Lists

1. Introduction
2. Pointers
3. Dynamic memory management
4. Linked lists
5. Operations on linked lists
6. Doubly Linked Lists
7. Special Linked Lists
 1. Stacks
 2. Queues