**📘 Section 01: Fiche Descriptive**

**👨‍🏫 Instructor Information**

* 👤 **Professor Name:** Dr. Cherif Benall
* 📧 **Email:** c\_benail@centre-univ-mila.dz
* 🕑 **Office Hours:** Monday and Wednesday, 2:00 PM - 4:00 PM

**📚 Course Information**

* 🏷️ **Course Name:** Algorithm and Data Structure
* ⏳ **Total Hours:** 120 hours per semester
* 🧩 **Fundamental Teaching Unit:** uefl21
* 🏫 **Teaching Method:** Face to face
* ⚖️ **Coefficient:** 04
* 🎓 **Allocated Credits:** 06
* 🛠️ **Tools and Software:** Coding C++ (Android), Dev C++ (Computer)
* 🚦 **Prerequisites:** Basic Programming knowledge, Mathematical Foundations, Logical Thinking, Familiarity with C++ IDEs, Basic algorithms, Clean code writing, Solution optimization
* 🎯 **Target Audience:** Beginners, Students interested in algorithms and data structures, First-year university students
* 🧠 **Learning Outcomes:**
  + Understand Variables and Constants
  + Master Control Structures
  + Manipulate Data Structures
  + Design Simple Algorithms
* 🗂️ **Course Content:** Variables and constants, Input/output, if statement, switch statement, loops, Arrays, Strings, tables, Matrices
* 📝 **Assessment Methods:** Exams (60%), Directed Work Quiz (20%), Practical Coding Tasks (20%)
* 🧾 **Time Allocation:**
  + Courses: 2 Sessions (3 Hours)
  + Directed Work: 2 Sessions (3 Hours)
  + Practical Works: 2 Sessions (3 Hours)
* ⏱️ **Assessment Timing:**
  + Midterm Exam: 1.5 hours
  + Directed Work Quiz: 0.5 to 1.5 hours
  + Practical Coding Tasks: 0.5 to 1.5 hours