

Code: 1641 Algorithms and Programming**Degree:** 2nd cycle – Mathematics Applied to Biological Sciences**Curricular Year:** 1st**Semester Course:** 1st**Credits:** 6 ECTS**Compulsory****Language:** Portuguese/English**Responsible:** Marta Guerreiro Duarte Mesquita de Oliveira**Other lecturer(s):** -**Web Site:** <http://www.isa.utl.pt/home/node/3888>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

To provide knowledge about algorithms and programming. To acquire the ability to develop software tools.

3. Programme:

Algorithms
Computational Complexity
Optimization Techniques
Introduction to a Programming Language

4. Bibliography:**Main Bibliography**

Introduction to Algorithms , Thomas H. Cormen, Charles E. Leiserson,
Ronald L. Rivest e Clifford St, 2001, MIT Press

5. Assessment:

Project (50%)
Exam (50%)

6. Estimated Workload:

168	Hours
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7. Last Update:

15/7/2010
