

FAME	ENSEA	
	Algorithms design and analysis	
US Credits : 3	Lecture; Tutorials : 45h	Language : English

Summary

This course covers basic techniques of design and analysis of efficient algorithms for standard computational problems.

Prerequisites

Contents

A broad range of the most commonly used algorithms will be detailed. Some examples include algorithms for sorting, searching, encryption, compression and local search. The students will implement and test several algorithms:

- Recursion
- Dynamic programming
- Greedy algorithms
- Divide-and-conquer
- Dynamic Data Structures
- Fundamental graph algorithms

Organization

Textbook

T.H. Cormen, C.E. Leiserson, R.L. Rivest, C. Stein, Introduction to Algorithms, The MIT Press, 3rd edition (July 31, 2009)

Similar to the following courses

- IIT Chicago CS 430
- University at Buffalo CSE 331
- University of Pittsburgh CS 1501
- University of Illinois at Urbana-Champaign CS 473
- Mississippi State University CSE 2383 / CSE 4833
- University of Michigan at AA
- Michigan Tech CS 4321