



UNIVERSITÀ
degli STUDI
di CATANIA

DEPARTMENT OF DRUG SCIENCES
Master's Degree in Pharmaceutical chemistry and
technology
Academic Year 2015/2016 - 1° Year

COMPUTER SCIENCE M - Z

3 CFU - 2° Semester

Teaching Staff

FRANCESCO PAPPALARDO

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Office Hours: Lunedì 12-14, studenti; Venerdì 12:30-13:30, tesisti e tirocinanti

DETAILED COURSE CONTENT

Section 1.

Information theory basic concepts; Hardware, Software; Information technology; Computers types; PC components; Computer performances. Hardware: CPU; Memory; I/O peripherals; Memory devices. Software: applications, operating systems; Graphical User Interface; System development.

Section 2.

Algorithms; Algorithms properties; Descriptions; Constants and Variables; Propositions and Predicates; Flowcharts; Composition Schemes; Iterative Algorithms; Arrays; Structural analysis; Recursive Algorithms; Complexity: basic concepts; Numeration systems; Positional; Conversions; Binary operations; 8 and 16 numeral systems; Complements; Information coding; Bits, bytes and words; BCD Coding; Control bits; Computer arithmetic;

Section 3.

Computer Science Applications to Life Sciences and Drug Discovery

TEXTBOOK INFORMATION

Teacher's notes
