

I. T. E. BLAISE PASCAL - FOGGIA

Amministrazione Finanza e Marketing – Sistemi Informativi Aziendali
Informatica e Telecomunicazioni

Programma Svolto

Classe 1^aC - AFM (Cambridge)

Anno Scolastico: 2021/2022

Disciplina: Informatica (Computer science)

Docente: Cavaliere Luisa

Libro di testo: Sarah Lawrey, Victoria Ellis - Cambridge IGCSE™ and O Level Computer Science Coursebook - Cambridge University Press

Syllabus: Syllabus Cambridge IGCSE™ Computer Science 0478-2023-24-25

- Data Representation
 - Binary and hexadecimal number system
 - Binary manipulation and negative numbers
 - How do computers represent text, images and sound?
 - Measuring data storage
- Hardware
 - Von Neumann architecture
 - The role of the CPU
 - The fetch, decode and execute cycle
 - Factors that can affect the performance of a CPU
 - Data storage: RAM and ROM
- Boolean logic
 - The role of logic gates
 - The NOT, AND, OR, NAND, NOR, XOR logic gates
 - Logic expressions
 - Representing truth tables and logic expressions
- Algorithm design and problem solving
 - Program development life cycle
 - Analysis
 - Pseudocode
 - Coding in Python
 - Testing

- Programming
 - Variables and constants
 - Numeric data types
 - Input/Output statements
 - Assignment
 - Sequence
- Laboratory activities
 - Spreadsheet: Excel
 - First operations
 - Change the format
 - Formulas and functions
 - Relative and absolute references
 - IF function
 - Charts
 - Logisim: educational tool
 - Designing and simulating digital logic circuits
 - Programming: Python
 - Simple problems
- Cisco Course – Get Connected
- Educazione civica
 - Essere cittadini digitali
 - Comunicare e informarsi attraverso la rete

Foggia, 28 maggio 2022

Gli alunni

La docente

Alessio Di Benedetto

Francesco Leo Corretto

Lucrezia