

I. T. E. BLAISE PASCAL - FOGGIA

Amministrazione Finanza e Marketing – Sistemi Informativi Aziendali
Informatica e Telecomunicazioni

Programma Svolto

Classe 2^aC - AFM(Cambridge)

Anno Scolastico: 2020/2021

Disciplina: Informatica (Computer science)

Docente: Cavaliere Luisa

Libri di testo: Lawrey Sarah, Scott Donald - Cambridge IGCSE® Computer Science Coursebook - Cambridge University Press
Chris Roffey - Cambridge IGCSE® Computer Science Programming Book for Python - Cambridge University Press

- Computer Architecture
 - Von Neumann architecture
 - Input/Output devices
 - Operating system
- Logic gates
 - Types of logic gate
 - Logic circuits
- Memory, Storage Devices and Media
 - Secondary storage
 - Magnetic, optical, solid-state and off-line storages
 - Choosing an appropriate secondary storage device
 - Calculating the storage requirement of a file
- Communication and Internet Technologies
 - Data transmission
 - Serial and parallel data transmission
 - Simplex, half-duplex and full duplex
 - Error detection and correction
 - Security aspects
 - Malware, viruses and spyware
- Programming concepts
 - Design tools: flowcharts and pseudocode
 - Variables and constants
 - Types of data

- Naming conventions
- Arithmetic operators
- Selection
 - If statement
 - Logical operators
 - Multiple if statement
- Iteration
 - For loop
 - Counter and adder
 - Maximum and minimum
 - While loop
 - Boolean variables
- Laboratory activities
 - Programming: Python
 - Getting Python 3.7 and IDLE
 - Getting Wing Python IDE
 - Programming tasks
- Cisco Course
 - Get Connected or Programming Essentials in Python (solo due alunni)
- Skills enhancement course
 - Question papers of previous sessions

Foggia, 3 giugno 2021

Gli alunni

La docente

**Letto durante la lezione in
modalità DAD e approvato**

Luisa Cavaliere