

I. T. E. BLAISE PASCAL - FOGGIA

Amministrazione Finanza e Marketing – Sistemi Informativi Aziendali
Informatica e Telecomunicazioni

Programma Svolto

Classe 3^aC - SIA(Cambridge)

Anno Scolastico: 2020/2021

Disciplina: Informatica (Computer science)

Docenti: Cavaliere Luisa – D'Amato Patrizia

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

- Review of topics from previous years
 - Hardware and software
 - Logic gates
 - Computer architecture and the fetch-execute cycle
 - Input/Output devices
 - Memory, storage devices and media

- Internet principles of operation
 - Internet service provider
 - Internet browser
 - Web server
 - Internet protocols
 - Mark-up language (HTML)
 - Cascading style sheets (CSS)
 - Scripting language (Javascript)
 - Internet addresses (IP, URL, MAC)
 - Cookies

- Algorithm design and problem-solving
 - Problem-solving and design
 - Pseudocode and flowcharts
 - Programming concepts
 - Variables and constants
 - Types of data: integer, float, char, string, boolean

- Naming conventions
- Arithmetic operators
- Testing: trace table
- Selection
- Types of iteration
 - For, While and Repeat loops
 - Counter and adder
 - Maximum and minimum
- Arrays and groups of arrays

- Laboratory activities
 - Programming: Python
 - Getting Python 3.7 and IDLE
 - Getting Wing Python IDE
 - Programming tasks

- Cisco Course - Programming Essentials in Python (the course has not finished)

- Skills enhancement course
 - Question papers of previous sessions

Foggia, 1 giugno 2021

Gli alunni

Le docenti

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

**Luisa Cavaliere
Patrizia D'Amato**