

I.I.S. “Michelangelo Buonarroti” Guspini

Programma svolto

Lingua inglese

A.s. 2022/2023

Docente: Alice Vagnozzi

Classe: **4^A B INDIRIZZO INFORMATICA E TELECOMUNICAZIONI**

TESTO ADOTTATO: NEW TOTALLY CONNECTED 2ED. (LD), C. Matassi, M. Menchetti, CLITT

Module 5: Operating systems

Main functions of Operating Systems:

- What is an operating system?
- How an operating system control hardware
- Who directs the action in a computer?
- Types of operating system
- Unix, Linux, and WindowsOS
- Operating systems for mobile devices
- Android

Application Packages:

- Database managers
- What can database managers do?
- Record design
- Reviewing the fundamental of SQL and Query
- Database inquiries
- Integrated Software

Module 6: Languages

Programming languages: low level languages

- Communicating with a computer
- The first generation: machine code
- The secondary generation: Assembly language

Programming languages: high level languages

- The third generation: people-oriented program
- The fourth generation: nonprocedural languages
- Oop and object-oriented languages
- Is there a fifth generation?

Special languages

- Computer language translators
- Visual languages: icons for words
- HTML5
- CSS3 and XML

Module 7: Program development

Computer programming

- What is a computer program?

- Software in perspective
- The first step: understanding the problem

Building a program

- Developing the algorithm
- Writing the program
- Documenting the program
- Testing and debugging the program
- Errors

System flowcharts

- Flowcharting
- Pseudocode
- Extreme programming
- A subprogram

Basic control structures

- Control structures
- Structured programming
- Structure diagrams

Module 7: A world of Apps - Java: a bright star

A world of Apps

- Platforms
- Instagram

Java: a software system for online multimedia

- What is Java
- Definition of “script”
- JavaScript

Java programming language

- The Java language
- Java platform

How to build applications and applets

- Application structure (First part)
- Application structure (Second Part)

Grammar: Futures: present simple, present continuous, to be going to, will, future perfect, future continuous, Interrogative form, Bring-Take-Get , Connectives, Past simple, Past Continuous, Present perfect, Past perfect, Past perfect continuous, Passive form.

Educazione Civica: Cittadinanza digitale

Social Media and Social Network: use and impact on interpersonal communication

Guspini 05/06/2023

Gli studenti

La docente
Prof.ssa Alice Vagnozzi