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PROGRAMMA DI LINGUA E CULTURA INGLESE della classe 5 P INFORMATICA E TELECOMUNICAZIONI - ART. INFORMATICA anno scolastico 2023/2024

Module 6 Languages

- The first generation machine code
- the second generation: assembly language
- the third generation people –oriented program
- the fourth generation: nonprocedural languages (4GLS)
- Oop and object-oriented languages
- Is there a fifth generation?
- Computer languages translators
- HTML 5
- CSS3 and XML an overview

Module 7 Program development

- What is a computer program?
- Software in perspective
- The first step: understanding the problem
- Developing the algorithm
- Writing the program
- Documenting the program
- Testing and debugging the program
- Errors: Syntax error- logic error- run-time, or execution error.
- Flowcharting
- Pseudocode
- A subprogram
- Control Structures
- Structured programming
- Structure diagrams

Module 9 It's a wired world

- Understanding networks
- But what is a network?
- Local Area networks (LANs)
- Metropolitan – area networks (MANs)
- Wide – area networks (WANs)
- Personal area networks (PANs)
- Virtual private network (VPN)
- Access VPNs
- Intranet VPNs
- Extranet VPNs
- Telecommunications
- Wire Media
- Wireless media Radio frequency – Microwave –
- Properties of transmission: A modem
- Method of transmission asynchronous transmission – synchronous transmission

Module 10 OSI and TCP/IP models

- Bandwidth
- Analog vs. Digital Bandwidth
- How the ISO created the OSI
- Let's examine the OSI layers
- Peer –to – peer communication
- OSI Model – Data Layer
- The 7 layers of OSI
- A comparison of OSI Model vs. TCP/IP Model.

Module 12 Finding the right career path

- IT in our lives yesterday
- Digital Convergence
- Career opportunities for IT specialists
- Reading Activities Read the text getting a job.
- What is the difference between résumé and CV?
- IT implications of convergence
- Reading of a text: "Big brother is watching you"

Grammar:

- first – second – third conditionals
- present perfect - past perfect
- Modals verbs: must – mustn't - may – can - could – have to – don't have to – should – shouldn't -

English Literature:

- **"1984"** George Orwell.
- **"The Picture of Dorian Gray"** Oscar Wilde.

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Docente

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