



ISTITUTO DI ISTRUZIONE SUPERIORE



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ANNO SCOLASTICO 2024/2025

Programma di
Lingua Inglese

Classe: 5G - Ist. Tecn. Inf. Telecom. - Cagliari

Materia: Lingua straniera (Inglese)

Docente: Giulia Delogu

Programma svolto

Libri di testo in adozione

- Bit by Bit – English for Information and Communications Technology; di D. Ardu, M.G. Bellino, P. Roy; edito: EDISCO.
- In time 2 – Student’s book and workbook di O’Dell, Zanella, Brelstaff, Maxwell
Edito: DeaScuola, Black Cat

Grammar Focus

- Passive voice: formation and use in different tenses (present simple, past simple, future with *will*, present perfect)
- Order of adjectives: standard sequence in descriptive phrases (opinion, size, age, shape, color, origin, material, purpose)

Module 4 – The Uses of Computers

Main Software Applications:

- Introduction to database systems and their importance in modern computing
 - **Types of Databases:** distinction between relational and non-relational models
 - **Structured Query Language (SQL):** fundamentals of database querying and management
 - **Database Applications:** practical examples of databases in real-world use (e.g., management systems, online services)
 - **DBMS (Database Management Systems):** functions, structure, and key features of software used to manage databases
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Module 5 – Linking Computers

Communication Networks:

- **Introduction to Networks:** definition and purpose of computer networks
- **Types of Networks:** LAN, MAN, WAN, PAN, and their typical uses
- **Network Topologies:** star, ring, bus, mesh, hybrid structures
- **Communication Protocols:**
 - **ISO/OSI Model:** layered approach to network communication
 - **TCP/IP Protocol Suite:** structure, function, and real-world application

The Internet and its Services:

- Overview of the Internet and its impact on communication and data exchange
 - **The World Wide Web:** websites, web browsers, and how they function
 - **Search Engines and Web Search:** techniques for effective information retrieval
 - **Content Aggregators:** purpose and examples in daily digital life
 - **Cloud Computing:**
 - Service models: **IaaS (Infrastructure as a Service), PaaS (Platform as a Service), SaaS (Software as a Service)**
 - Deployment models: **Public, Private, and Hybrid Clouds**
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Module 6 – Protecting Computers

Computer Security and Threats:

- **Types of Malware:** adware, spam, bugs, viruses, worms, and rogue software
 - **Security Threats:** backdoors, crimeware, cookies, and mobile device vulnerabilities
 - **Network Security:** common network-based attacks and prevention strategies
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Civic Education

European Union Overview:

- **History of the European Union:** key events and treaties
- **European Institutions:** roles and functions of the European Parliament, Commission, and Council

Brexit:

- **Timeline and Historical Background**
- **Consequences of Brexit:** impact on travel, education, and employment for EU and UK citizens

Cagliari, Giugno 2025

IL DOCENTE

Giulia Delogu