

ITIS "LEONARDO DA VINCI", PARMA

PROGRAMMA DI LINGUA INGLESE

Anno Scolastico 2023-2024

Classe: V D INF

Docente: Chiara Ghirelli

Libro di testo: **Mirella Ravecca**, Information Technology "Skills and competences", Minerva Scuola.

*Materiali o risorse forniti dalla docente

MODULI DISCIPLINARI	
Unit 7 "Operating systems"	<ul style="list-style-type: none">• Algorithm basics• Operating systems• Windows multitasking• What is Google Android?• Ubuntu• Citizenship: Digital divide, free operating systems for everybody (Declaration of Human Rights, article 26)*
Unit 8 "Computer languages"	<ul style="list-style-type: none">• Computer languages vs natural languages*• Object-oriented programming (OOP)• Scratch vs Python• C++• Markup languages (html)• Java and Javascript• PHP*
Unit 9 "Software applications"	<ul style="list-style-type: none">• What's application software?• Word processing• How the spreadsheet has changed accounting• Electronic organizers*• Databases, DBMS and database applications*• What is Prezi and why use it?
Unit 10 "Networking"	<ul style="list-style-type: none">• Types of area network• Network topologies explained• Network standards and protocols• Internet's protocols• The ISO/OSI model*
Unit 11 "Getting connected"	<ul style="list-style-type: none">• Optical fibre, the way of the future• Wireless networking
Unit 12 "Information on the Web"	<ul style="list-style-type: none">• Information at your fingertips• From web 1.0 to Web 4.0• The third industrial revolution*• Industry 4.0• Search engines and web search*• Crimeware, phishing*
Unit 13 "Communicating on the Net"	<ul style="list-style-type: none">• You've got email• Facebook's privacy crisis, data breach, big data• Big data, Cambridge Analytica*• Citizenship: "Sharenting" and possible repercussions*

Unit 14 “Multimedia and entertainment”	<ul style="list-style-type: none"> • Streaming media • Downloading versus streaming • Online gaming • Citizenship: “The role of Game Design in mobile gaming addiction”*
Unit 15 “Internet marketing and online shopping”	<ul style="list-style-type: none"> • Introducing e-commerce • Dropshipping* • Distribution channels* • Bitcoin: the world’s leading cryptocurrency • Blockchains: hash, mining * • Cloud computing

MODULI INTERDISCIPLINARI	
Pros and cons of Artificial Intelligence (Informatica)	<ul style="list-style-type: none"> • Introduction to the practice of debate • Introduction to the topic: What is Artificial Intelligence? • Analysing existing data and reports on the topic: pros and cons, the AI Bill of Rights, the EU AI Act, is AI good for society? • Debate session on 22 December (classes VD and VA INF) – motion: “Will AI exacerbate inequalities?”
Compito di realtà – Set up a company’s network (Sistemi e Reti)	<ul style="list-style-type: none"> • Describing the assigned company and its needs regarding the network • Choosing the most suitable network topology, components, connecting devices, protocols and standards applied • Showcasing the presentation as if they were employees of said company

DIDATTICA ORIENTATIVA	
Future job opportunities	<ul style="list-style-type: none"> • Live Q&A on 24 April with a former ITIS student now software developer living in the UK: tips and tricks on how to get your dream job • Reading and interpreting job posts, preparing your resumé and a cover letter • Job interview dos and don’ts

Parma, 25/05/2024

La docente:

I rappresentanti di classe:

Chiara Ghirelli

Simone Camanitti _____

Jacopo Corbani _____