

Programma Disciplinare svolto A.S. 2023-2024 SERALE

ITI-NAUTICO

CLASSE **2 SER (V ELETTRONICA ED ELETTROTECNICA)**

MATERIA: **INGLESE**

DOCENTE **Gioia Lagalla**

ORE SETTIMANALI: 2

I Modulo. Periodo: ottobre – dicembre 2023. Ore 20

Fotocopie, letture integrative e altro materiale distribuito a lezione e su google classroom; Materiale di supporto caricato su UIBI.

UDA 1 – The atoms. Electricity. Conductors, superconductors, semiconductors and insulators. The battery.

- Atoms and electrons
- Conductors and insulators
- Semiconductors and superconductors
- The battery and types of batteries
- Simple circuit;
- series and parallel circuit.
- *Culture: "History of Electricity"*
- *Video: "How to make your own potato battery"*

UDA 2– Language and grammar revision. Electronic systems and components.

- Applications of electronics.
- Basic electronic components
- Colour coding of components
- Conventional and integrated circuits
- How an electronic system works
- Analogue and digital
- *Video: "Top 5 technology that has changed the world"*

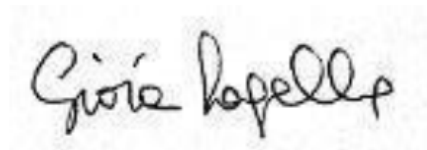
UDA 3– Automation, domotics and robotics.

- How automation works
- Advantages of automation
- Programmable logic controller

- Automation in operation: a heating system
- Domotics: automation in the home
- How a robot works
- Varieties and uses of robots
- Robots in manufacturing
- *Video: "See Amazon's new robot army" (CNN)*
- *Video: "7 best new home automation gadget of 2020"*

Viareggio, 8 giugno 2024

L'insegnante Gioia Lagalla

A handwritten signature in black ink, reading "Gioia Lagalla". The signature is written in a cursive style with a large, stylized 'G' and 'L'.