

Istituto Istruzione Superiore “Galilei-Artiglio” - VIAREGGIO

PROGRAMMA SVOLTO a.s. 2022-2023

Classe 4 AT

Indirizzo: MECCANICA E MECCATRONICA

Disciplina: INGLESE

Docente: CRISTINA DONAGLIA

Dal libro di testo Smartmech Premium – Eli, integrato da altri testi allegati su classroom e fotocopie, sono stati trattati i seguenti argomenti:

Module 1 Engineering

- Engineering and mechatronics
- Mechanical engineers
- Mechanics
- Professional welders
- Production stages: from product design to manufacturing
- The importance of safety. Safety education

Module 2 Grammar

- Active and passive form
- The reported speech

Module 3 Materials

- What is materials science
- Properties of materials (mechanical, thermal, electri-magnetic and chemical properties)
- Types of materials : Metals, composite materials, ceramic
- Nanotechnology

Module 4 Metal processes

- Metalworking
- Steelmaking
- Casting
- Hot and cold processes
- Metal joining processes (welding)
- Sheer metal processing

Module 5 The motor vehicle

- The four-stroke engine
- The two-stroke engine
- The diesel engine
- Biofuels
- Basic car systems: the fuel system, the electrical system, the braking system.

Viareggio, 5 giugno 2023

Gli studenti

L'insegnante

Cristina Donaglia