



ISTITUTO DI ISTRUZIONE SUPERIORE

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PROGRAMMA SVOLTO

ANNO SCOLASTICO 2023/2024

CLASSE **3^A** SEZIONE **D** TECNOLOGICO - MECCANICA E MECCATRONICA

DOCENTE ROBERTO FANNI	MATERIA INGLESE
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Libro di testo

Di Rocchi M / Ferrari C.

I MECH English for Mechanical Technology

Volume unico

Hoepli

Ore settimanali: **3**

Grammar review on:

- ✓ Present Simple – verb *to be* and common verbs (with adverbs of frequency)
- ✓ Present Continuous
- ✓ Present Simple vs Present Continuous
- ✓ Past Simple – verb *to be* and common verbs: regular and irregular verbs
- ✓ Past Continuous
- ✓ Past Continuous vs Past Simple
- ✓ Future tenses:
 - *to be going to*
 - Simple Future with *will*
 - Present Continuous
 - Present Simple
- ✓ Present Perfect Simple (with adverbs of time, *ever* and *never*, *been* vs *gone*, *since* and *for*)
- ✓ Present Perfect Simple vs Past Simple

From the text adopted:

INTRODUCTION - What is Mechatronics?

- ✓ The rise of mechatronics
 - The profile of the Mechatronic technician
 - Where Mechatronic technicians work

UNIT 1 - Materials in engineering

- ✓ Materials and their properties
 - Types of materials
 - Properties of materials: physical and chemical properties
 - Mechanical properties
- ✓ Metals
 - The properties of metals
 - Ferrous metals and alloys
 - Non-ferrous metals and alloys

- ✓ Polymers: plastics and rubbers
 - Polymers
 - Thermoplastics
 - Thermosetting plastics
 - Rubbers
- ✓ Other types of materials
 - Ceramics
 - Composites
 - What are composites made of?
 - What are the applications of composites?
 - Smart materials

UNIT 2 - Mechanical drawing

- ✓ Technical drawing
 - What is technical drawing?
 - Tools and instruments
- ✓ Lines and other conventions
 - Types of lines
 - Standardized conventions
- ✓ Technical representations
 - Different types of projections
 - Central projections
 - Parallel projections
- ✓ CAD (Computer Aided Design)
 - What is CAD?

Educazione Civica:

Alternative engines: electric and hybrid cars. Tesla electric truck.

GUSPINI, 07/06/2024

IL DOCENTE

Prof. Roberto Fanni