



Istituto Tecnico Industriale Statale "Q. Sella"
13900 BIELLA



Anno Scolastico 2025/2026

CLASSE V sez. A

Indirizzo: Meccanica e Meccatronica

DISCIPLINA	LINGUA INGLESE
DOCENTE	GRAZIA SEMPREVIVO
TESTO/I ADOTTATO/I	MECHPOWER N.E. – ENGLISH FOR MECHANICS, MECHATRONICS AND ENERGY

Biella, 06.05.2026

L'insegnante:
Grazia Semprevivo



PROGRAMMAZIONE DI DIPARTIMENTO

MODULE 1 – CULTURAL MATTERS (appunti forniti dalla docente)

American Voting System
American government system
BREXIT
The British Political system
The English Parliament
The European Election
The Single Market in the E.U.
The Industrial Revolution
Victorian Age

MODULE 2 – AUTOMATION

What is Automation?
Sensors
Actuators
From NC to CNC Systems
What is a Robot?
Robotic arms
Industrial robots: COBOTS
Mobile Robots

MODULE 3 – MACHINE TOOLS (appunti forniti dalla docente)

CNC and Traditional Machine tools
Milling machine tools
Drilling machine tools
Boring machine tools
Grinding machine tools
The Lathe
550 High – Tech lathe
3D Printing

MODULE 4 – ENGINES

Internal combustion engines
Four-stroke petrol engines
Two-stroke petrol engines
The four-stroke Diesel Engine
The electric motor



PROGRAMMA SVOLTO

METODI UTILIZZATI

Lezioni Frontali
Gamification
Cooperative Learning
Peer – to – peer learning activities

MEZZI E STRUMENTI

Libro di testo
Appunti forniti dalla docente
Piattaforme online e video approfondimenti

VERIFICHE

Verifiche orali, verifiche scritte: multiple choices, open questions, fill in the gaps.

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The Industrial Revolution
Victorian Age

MODULE 2 – AUTOMATION

What is Mechatronix?
Sensors
PLCs
Actuators
From NC to CNC Systems
What is a Robot?
Robotic arms
Industrial robots: COBOTS
Mobile Robots

MODULE 3 – MACHINE TOOLS (appunti forniti dalla docente)

CNC and Traditional Machine tools
Milling machine tools
DOC. 15/05



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Drilling machine tools
Boring machine tools – TBM
Grinding machine tools
The Lathe
550 High – Tech lathe
3D Printing

MODULE 4 – ENGINES

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The four-stroke Diesel Engine
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