



Via Toscana, 10 - 43122 PARMA - Tel 0521266511 - Fax 0521266550 - e-mail itis@itis.pr.it - cf.80007330345 - PRTFO10006

ITIS
LEONARDO DA VINCI



PROGRAMMA SVOLTO a.s. 2022-2023

Prof.ssa
DI CATALDO SILVIA

Classe
5^B MEC

Disciplina
INGLESE

TESTI DI ADOZIONE: **SMARTMECH**, Eli Publishing - * **Materiali forniti dal docente**

MODULI DISCIPLINARI	
MODULO 1 MACHINE TOOLS (1)	POWER DRIVEN MACHINE: Machine tools classification – The Lathe – Major types of lathe.
MODULO 2 MACHINE TOOLS (2)	MACHINE TOOLS BASIC OPERATION: Drilling and Boring – Milling and Grinding – Metal Forming Machine Tools – Non traditional machining processes.
*MODULO 3 THE AMERICAN INDUSTRIAL REVOLUTION AND HENRY FORD (1)	INDUSTRIALIZATION AND MASS PRODUCTION IN THE US <u>Eli Whitney</u> and The American System of Interchangeable Parts <u>Steel Process</u> : Henry Bessemer Converter <u>New Uses For Steel</u> in Construction, Infrastructure and Transportation <u>Edwin L. Drake</u> : Drilling For Oil. The Birth of Oil Industry in the Us <u>Communication</u> : The Telephone and Graham Bell <u>Rush of Inventions</u> : The Centennial Exposition of 1876
*MODULO 4 THE AMERICAN INDUSTRIAL REVOLUTION AND HENRY FORD (2)	<u>Electricity Spreads</u> : Thomas Alva Edison, the electric bulb and the Edison's Menlo Park Centre; Nikola Tesla and George Westinghouse, the Niagara Falls Hydroelectric Plant; The Battle of Currents – Visione del film: "Edison, the Man Who Lit the World) <u>The Airplane</u> : The Wright Brothers and their first flight <u>Who Invented The Automobile</u> : the origin of Motorcars with Internal Combustion Engine from Nikolaus Otto to Karl Benz (Il modulo 4 è stato sviluppato con lavori di ricerca e approfondimento individuale degli studenti su uno degli argomenti proposti).
*MODULO 5 THE AMERICAN INDUSTRIAL REVOLUTION AND HENRY FORD (3)	<u>Henry Ford</u> : From Meat Packing Industry To Ford's Moving Assembly Line - Interchangeable Parts in Ford's Implants – Henry Ford and Frederick Taylor – Ford's Standardization Processes (Timing and Cost Reduction) – Ford's Production System (Supply Chain and Vanadium Steel) – The Labor Force on an Assembly Line — Henry Ford's Motorcar System From Quadricycle to Model T to Mass Production.

I rappresentanti di classe:

Andrea Marcheselli.....

Vasilii Siminovich

Il docente:

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