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|  |  | **I I S *“Ettore Majorana”***  Via A. De Gasperi, 6 - 20811 Cesano Maderno (MB) |

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| **PROGRAMMA SVOLTO** |

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| **CLASSE** | 5EC | **DISCIPLINA** | INGLESE |
| **DOCENTE** | Prof. GANGI CHIODO MADDALENA | **A.S.** | 2018/2019 |

**Libro di testo**: Kiaran O’Malley, **“English for New Technology”**, Pearson-Longman

**Unit 2 Electric circuits**

Measuring tools (pag.26)

**Unit 3 Electromagnetism and Motors**

The electric motor ( pag. 35)

Types of electric motors ( pag.36)

**Unit 5 Distributing Electricity**

The transformer ( pag.58)

Key people : Edison, Tesla and the AC/DC battle (pag. 60)

How to do it : Act in emergencies ( pag.65)

Safety Signs (pag.66)

**Unit 6** **Electronic components**

Applications of electronics ( pag. 72,73)

Semiconductors (pag. 74)

The Transistor ( pag . 75)

Basic Electronic components ( pag. 76, 77)

Working with Transistors (pag. 78,79)

Key People: Milestones in electronics (pag. 80)

William Shockley, the father of the transistor (pag. 81)

**Unit 7** **Electronic System**

Conventional and integrated circuits (pag. 84, 85)

How an electronic system works (pag 86)

Analogue and Digital, Binary Numbers; Advantages of digital (pag. 87)

Digital recording ( pag. 88)

Amplifiers (pag. 90)

Oscillators ( pag. 91)

How to Do it: Read a data sheet ( pag. 92,93)

**Unit 8 Microprocessors**

What is a microprocessor? (pag. 96,97)

The microprocessor (pag. 98)

Logic Gates ( pag. 99)

Key People: The race to build the integrated circuit ( pag. 102 )

How microchips are made (pag. 104,105)

**Unit 9 Automation**

What is automation? ( pag. 108, 109)

How automation works (pag. 110)

Automation in operation : a heating system ( pag. 111)

How to do it : Design a burglar system (pag. 112)

KEY people : The development of automation ( pag.113)

How a robot works (pag.114)

Varieties and uses of robots ( pag 116)

Robots in manufacturing ( pag 117)

Home automation : Domotics, Automation at home and at work ( pag.122)

**EMPLOYMENT IN NEW TECHNOLOGY**

The curriculum vitae. What the CV should contain

The letter of application

What the letter of application should contain;

The interview.

Make a report; making an oral report; making a written report.

Make a summary.

Inter-disciplinary activities

Visione film/ video in lingua originale

M.L.King and the civil right movement. “I have a dream”

“The Picture of Dorian Gray”

“The Iron Lady”

“The Hidden Figures” ( “Il Diritto di contare”)

“ Suffraggette”

Partecipazione allo spettacolo teatrale “ Brexit” (script)

#### Brani di comprensione scritta e orale in preparazione alla prova INVALSI

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| Cesano Maderno, …………/05/2019 | | Firma Docente |  |
| Firme di due studenti |  | | |