



Month	April	May	June	July
Concept	Different Computers, Different Languages Web Services	Advanced Tools in a Presentation Introduction to Python	Operators in Python Algorithmic Logic and Problem Solving	Conditional Statements in Python
Learning Outcomes	Students will be able to: <ul style="list-style-type: none"> • Categorise different types of computers. • Differentiate between the generations of computer languages. • Illustrate the role of translator programs and classify their types. • Elaborate Internet and its history. • List advantages and disadvantages of the Internet. • Describe popular services on the Internet. • Identify potential threats of using the Internet and describe netiquette. 	Students will be able to: <ul style="list-style-type: none"> • Apply animation and transitions. • Use advanced features of Google Slides. • Demonstrate how to view a presentation. • Identify Python and its features. • Recognise basic Python syntax and built-in functions. • Comprehend data types and create variables with correct naming rules. • Demonstrate dynamic typing with simple examples. 	Students will be able to: <ul style="list-style-type: none"> • Classify operators, their types, and analyse operator precedence while evaluating expressions. • Design simple algorithms and interpret flowcharts using standard symbols for problem-solving. • Develop basic Python programs and apply the math library for calculations. 	Students will be able to: <ul style="list-style-type: none"> • Identify control statements. • Classify conditional statements and their types.
Skills	Comprehension , Knowledge, Analysis	Comprehension , Knowledge, Application, Analysis	Comprehension, Knowledge, Application, Analysis	Comprehension, Knowledge, Application, Analysis
Software	-	Google Slides & Python	Python	Python
Competency skill based activity Experiential learning	<ul style="list-style-type: none"> • List the five generations of computer languages and represent them using a flowchart. • Perform an activity to search information on a given topic and present it using safe browsing practices. <p>(Integrated with English, Social Science and Art)</p>	<ul style="list-style-type: none"> • Design a short presentation using animations, transitions, and background themes on a given topic. <p>(Integrated with English, SocialScience, Maths and Art)</p>	<ul style="list-style-type: none"> • Solve real-life problems (e.g., simple calculations) using operators and represent the solution using an algorithm or flowchart. <p>(Integrated with English, Maths and Art)</p> <ul style="list-style-type: none"> • Art integrated Project: Himachal Pradesh and pair state. 	<ul style="list-style-type: none"> • Create a Python program to check conditions (e.g., even/odd number, pass/fail result). <p>(Integrated with English, Maths and Art)</p>

Assessments : Class Response, Class test , Practical work .

Main Book : Tekie Computer Science

Publisher : Uolo (Revised Edition)



Month	August	September	October- November	December- January
Concept	Working with Data in a Spreadsheet Designing with Canva	Designing with Canva Mind Mapping with Canva	Introduction To HTML Introduction to CSS	How Do Robots Work? Computer Vision
Learning Outcomes	Students will be able to: <ul style="list-style-type: none"> Comprehend Google Sheets and its components Enter, edit, and format data in worksheets using features like text effects, borders, and freezing rows/columns. Describe Canva, its uses and components. Demonstrate how to access it to create a simple poster. 	Students will be able to: <ul style="list-style-type: none"> Edit images by adjusting colour scheme, style, white balance, lighting, and using features like flip, crop, rotate, and auto-adjust. Illustrate mind maps, their purpose, and create them using Canva. Apply and edit text using basic formatting options (font style, size, and colour) and expand a mind map by adding branches. 	Students will be able to: <ul style="list-style-type: none"> Classify HTML, its purpose, advantages and disadvantages, recognise commonly used web browsers. Analyse the structure, terminologies and types of HTML tags. Develop simple web pages using basic and advanced tags. Comprehend CSS, its syntax and methods. Apply colour, font, and border properties to enhance web page design. 	Students will be able to: <ul style="list-style-type: none"> Illustrate robotics, its purpose and development timeline. Describe how robots work using basic concepts. Classify types of robots and their components (sensors, actuators, controller, power supply, structure, and software). Analyse examples of Indian robots. Interpret the connection between Artificial Intelligence and robotics. Describe and predict future trends. Comprehend computer vision and its applications. Differentiate between Augmented Reality (AR) and Virtual Reality (VR). Explore AI-based tools and demonstrate simple AI activities.
Skills	Comprehension , Knowledge, Application, Analysis	Comprehension , Knowledge, Application, Analysis	Comprehension , Knowledge, Application, Analysis	Comprehension , Knowledge, Analysis
Software	Google Sheets & Canva	Canva	HTML & CSS	AI tool
Competency Skill based activity/ Experiential learning	<ul style="list-style-type: none"> Create a worksheet to record and format marks using basic editing and formatting tools. <p>(Integrated with English, Maths and Art)</p>	<ul style="list-style-type: none"> Create a mind map on a given topic using a blank canvas, add shapes, branches, text and apply text formatting. <p>(Integrated with English, Maths and Art)</p>	<ul style="list-style-type: none"> Create a simple web page using basic HTML tags (heading, paragraph, image). <p>(Integrated with English, Maths and Art)</p>	<ul style="list-style-type: none"> Explore AR/VR apps and present observations. Use AI tools to label images or recognise objects. <p>(Integrated with English, Maths, Science and Art)</p>

Assessments : Class Response, Class test , Practical work .

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