

Vivekanand School - MICRO PLANNER (2024-25)							
Month Class 6	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
April	1	STEM Orientation					
	2	Introduction to Basic electronics and components	<a href="#">Hardware components Identification and K.P</a>	Electronics Kit	Basic Electronics	Students will learn to build simple electric circuits using batteries, wires, bulbs, resistors, capacitors, and switches.	NA
	3	LED & Breadboard	<a href="#">LED circuit using transistors and battery</a>	Electronics Kit	Basic Electronics	Students will learn to construct a basic LED circuit using a battery, resistor (if required), and appropriate wiring.	NA
	4	Transister and LDR	<a href="#">Use of IR sensor, Transistor and LDR</a>	Electronics Kit	Basic Electronics	Students should be able to design simple transistor circuits, such as a basic amplifier or a switch circuit, and understand how changes in component values affect circuit behavior.	NA
	5	Project	<a href="#">Automatic Room Light-control</a>	Electronics Kit	Basic Electronics	Students will develop a basic understanding of electronic components such as resistors, capacitors, transistors, LDRs, and buzzers, as well as their functions within the circuits.	NA

Month Class 7	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
April	1	STEM Orientation					
	2	Introduction to Python and its installation	<a href="#">Use of shell, python</a>	Python idle	Logical and Computational Thinking	1. Understand key features that make Python user-friendly (like simple syntax, readability). 2. Understand where Python is used in the real world (e.g., web development, data science, automation).	NA
	3	Lines and angles	<a href="#">Draw Shapes with turtle</a>	Python idle	Logical and Computational Thinking	1. Understand the concept of a "turtle" in a graphical programming environment. 2. Learn how to move the turtle in different directions (forward, backward).	NA
	4	Project-Practical geometry	<a href="#">Shapes, angles</a>	Python idle	Logical and Computational Thinking	Understand how to use angles in programming to create geometric shapes.	NA
	5	Programming	<a href="#">Loops</a>	Python idle	Logical and Computational Thinking	Grasp why loops are used in programming to repeat a sequence of instructions.	NA

Month Class 8	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
April	1	STEM Orientation					
	2	Mathematics	<a href="#">Python operators</a>	Python idle	Logical and Computational Thinking	Familiarize with arithmetic, comparison, logical, assignment, and other types of operators in Python.	NA
	3	Programming	<a href="#">Conditional Statement</a>	Python idle	Logical and Computational Thinking	1. Understand how to use if, elif (else if), and else statements to create conditions in Python. 2. Develop logical thinking skills by determining the conditions and actions in a program.	NA
	4	Project-Small Calculator	<a href="#">Python Functions</a>	Python Programming Language	Logical and Computational Thinking	1. Learn how to define a function using the def keyword. 2. Understand how to call a function to execute the code it contains.	NA
	5	Project -Small Chatbot	<a href="#">Python Module</a>	Python Programming Language	Logical and Computational Thinking	Python Turtle facilitates creative programming through visual drawing and graphics.	NA

Month Class 9	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
April	1	STEM Orientation					
	2	Introduction to Statistics and Data	<a href="#">Data Visualization</a>	Python and Jupyter Notebook	Analytical and Mathematical	1. Understand the importance and purpose of data visualization in interpreting and communicating data insights. 2. Learn about different types of data (categorical, numerical, time series, etc.) and how they influence the choice of visualization.	NA
	3	Introduction to matplotlib	<a href="#">Introduction to matplotlib</a>	Python and Jupyter Notebook	Analytical and Mathematical	1. Gain a basic understanding of what Matplotlib is and its role in data visualization. 2. Understand the integration of Matplotlib with data manipulation libraries like Pandas and NumPy.	NA
	4	Mean Median Mode	<a href="#">Mean</a>	Python and Jupyter Notebook	Analytical and Mathematical	Learn how to calculate the mean (average).	NA
	5	Mean Median Mode	<a href="#">Median, Mode</a>	Python and Jupyter Notebook	Analytical and Mathematical	Learn how to calculate the median and mode of a data set.	NA