



Month	April	May	June	July
Content	Number System Basics of Python	Control Statements in Python. Staying safe in Digital world	Performing Calculation Using Spreadsheets. Data Visualisation using Spreadsheet.	Animate your ideas with Canva
Learning Outcomes	Students will be able to: <ul style="list-style-type: none"> Classify different types of number systems. Convert numbers from one system to another. Perform binary addition on numbers. Comprehend different types of programming languages. Apprehend Python and its data types. Perceive dynamic typing and typecasting. Categorise different mathematical operators. 	Students will be able to: <ul style="list-style-type: none"> Comprehend different types of control and conditional statements. Categories and execute different types of loops in Python. Classify different categories of criminal activity against individuals, businesses, government and society. Comprehend the ways to implement cybersecurity. 	Students will be able to : <ul style="list-style-type: none"> Identify cell, cell address and apply formulas. Apprehend functions and perform basic calculations using the function library. Implement mathematical , text,date and time functions in spreadsheets. Implement sorting and filtering on data. Comprehend charts and types of charts in a spreadsheet. 	Students will be able to : <ul style="list-style-type: none"> Add text and elements to their design. Create and manage layers and animation effects in canva Add text, elements, animations and transparency.
Skills	Comprehension, Knowledge,Application, Analysis	Comprehension, Knowledge,Application,	Comprehension, Knowledge, Application, Analysis	Comprehension, Knowledge, Application,
Software	Python	Python	Google Sheet	Canva
Competency Skill based activity/ Experiential learning	Convert the numbers from octal number system to decimal number system. Create a program that takes three inputs from users and displays their average. Integrated with Math and English	Create a program that will result in an infinite loop. Integrated with English, Social science and Maths	Enter the marks in 5 different subjects and calculate the total and average of five different students. Integrated with Science, Social science , English and Art	Design a card and position the elements using Layers. Integrated with English, Science,social science,Math and Art • Art integrated Project Himachal Pradesh and pair state.

Assessments : Class Response,Class test , Practical work

Main Book : Tekie.AI Computer Science

Publisher : Uolo (Revised Edition)



Month	August	September	October-November	December/January
Content	Introduction to Web Development Images and Hyperlinks in HTML.	List and Tables in HTML Role of Big Data in AI	Role of Big Data in AI Organising data with Database	Understanding Machine Learning Introduction to Natural Language Processing
Learning Outcomes	Students will be able to: <ul style="list-style-type: none"> • Comprehend HTML and its features. • Outline the basic structure of HTML documents. • Apply the basic HTML tags. • Add style to an HTML document using CSS. • Insert Image as an element and a background. • Comprehend hyperlink and create a navigation from one page to another. 	Students will be able to: <ul style="list-style-type: none"> • Create different types of lists in a web page. • Apply styling to a list using different CSS properties. • Design a table and style it using CSS. • Identify and enlist the characteristics of big data. • Classify 6V's of big data to a smart city. 	Students will be able to: <ul style="list-style-type: none"> • Categorise the applications of big data in various fields. • Comprehend database, its importance and components. • Apprehend different data types and commands in SQL. 	Students will be able to : <ul style="list-style-type: none"> • Interpret Machine learning and its types. • Enlist the applications of Machine learning • Recognize natural language processing and its applications. • Implement MIT App Inventor.
Skills	Comprehension, Knowledge, Application	Comprehension, Knowledge, Application, Analysis	Comprehension, Knowledge, Application	Comprehension, Knowledge, Application, Analysis
Software	Notepad, Web browser	Notepad, Web Browser	SQL	-
Competency skill based activity/ Experiential learning	Create a link between two different webpages with images in it. Integrated with English, Social science and Art	Design a table with 3 rows and 4 columns and apply styling to it using css. Integrated with Math, Social science English	Create a table "Student" with a primary key and insert two new records into it using a suitable command. Integrated with Math and Social science	Enlist five different application of NLP which they are familiar with. Integrated with Math , Science and Art

Assessments : Class Response, Class test , Practical work

Main Book : Tekie.AI Computer Science

Publisher : Uolo (Revised Edition)