

- 1. Excel to Excel** - Advanced features of MS Excel
 - Select, copy, & move data
 - Inserting rows & columns
 - Charts & graphs
 - Change cell dimensions
 - Formatting, auto fill & formulas
 - **Project: Smart school elections**
- 2. Beyond the Reality** - Introduction to AR and VR
 - Immersive Technology
 - Virtual Reality (VR)
 - Metaverse
 - Augmented Reality (AR)
 - Mixed Reality
- 3. Think Like coders** - Algorithms and flowcharts
 - Introduction to programming
 - Pseudocode & Flowchart
 - **Project 2: Is it a leap year**
 - Algorithms and algorithmic thinking
 - **Project 1: How to make a cup of coffee**
 - Block coding with MakeCode
- 4. Make code, with Makecode** - Programming with Makecode
 - Print command
 - Loops
 - Variables, Conditionals, and Operators
 - **Project 4: Dynamic background**
 - **Project 1: Hello World!**
 - **Project 2: Music Player**
 - **Project 3: Addition of numbers**
 - **Project 5: The remainder problem**
- 5. Meet the python** - Introduction to python
 - Introduction to Python
 - Print
 - Data types
 - Getting started with Python
 - Variables
- 6. From a Blank page, to a web page!** - Introduction to HTML
 - Introduction to HTML
 - **Project: My Bio**
 - HTML tags
 - Types of tags
- 7. Can computers see?** - Exploring computer vision
 - Computer vision (CV)
 - Understanding images
 - Tasks of Computer Vision
 - Applications of Computer Vision
- 8. Beware of Black- Hats** - Understanding digital safety
 - Identity theft
 - Phishing
 - Ransomware attack
 - Password theft
 - Malware attack
 - Preventing cyber attacks

1. **Create with krita** - Simple sketch using krita

- Digital painting
- Types of layers
- Brushes, Presets and Stamps
- Getting started with Krita
- Toolbox
- **Project: Starry Night**

2. **The language of the universe** - Learning number system

- Why numbers?
- Decimal system
- Octal system
- Numeral system
- Binary system
- Hexadecimal system

3. **Hatching the python** - Basics of python

- Getting started with Pythons
- Interactive mode and Script mode
- Print command
- Commenting in Python

4. **Very able variables** - Understanding variables in python

- Variables and Constants
- Creating variables
- Operators
- Variables in Python
- Data types
- **Project: Result Generator**

5. **If you think For a While** - Loops and conditionals in python

- Conditional statements
- Loops
- **Project 1: Multiplication table**
- If and If-else statements
- For and While loops
- **Project 2: Guess who am I?**

6. **Make a Wiki** - Understanding HTML

- Web Pages and Websites
- HTML Attributes
- HTML Tags
- **Project: MS Dhoni**

7. **Power of AI** - Deep dive into AI

- Artificial Intelligence (AI)
- Data science
- Computer Vision
- Achieving AI: ML & DL
- Natural Language Processing
- AI for SDGs

8. **Creating a positive Digital Footprint** - Responsible Online Behaviour

- Your online identity
- Digital footprint
- Going anonymous
- Advantages of positive digital footprint

1. **Re-edit your favourite video** - Editing the video with openshot

- Why video editing
- Exploring OpenShot
- Getting started with OpenShot
- **Project: Birthday party invitation**

2. **How does the Net Works** - Basics of Internet and Networking

- Computer networks
- Types of computer networks
- The Internet
- Working of websites
- Network topology

Bridge It - Introduction to Python

3. **Taming the Turtle** - Exploring python libraries

- Modules in Python
- **Project: Area and Circumference**
- Libraries in Python
- Math module
- Random module
- Turtle Graphics Library

4. **Nested for a while in a loop** - Making patterns with turtle library

- If and If-else
- If-elif-else
- While and While-else
- For loop and Nested loops
- **Project 1: Polygon Maker**
- **Project 2: Planets around the Sun**

5. **Fun-key events** - Interactive programs using functions & events

- Functions
- Creating a function
- Calling the function
- Functions with Turtle
- Events
- Event-based functions

6. **Stylish websites, made simple** - Learning HTML & CSS

- HTML tags
- HTML attributes
- CSS (Inline, Internal, & External)
- **Project: Snowy Owl**

7. **Making of AI** - AI Project Cycle and Ethics

- AI Project Cycle
- Stages of AI Project Cycle
- 4Ws Problem Canvas
- AI Ethics

8. **Listen to what data says** - Exploring types of data

- Data
- Data collection: Primary & Secondary sources
- Quantitative and Qualitative data
- Discrete and Continuous data
- Numerical and Categorical variables

9. **Think like a data scientist** - Data science Algorithms

- Data Analysis
- Algorithms
- Data representation