

Python - Programming

Guidelines for Online Learning

Section-I General Point of Consideration

- ◆ The learner must get familiar with the Session's Interface and understand:
 - ▶ How Session is going on?
 - ▶ How to Toggle window between the sessions and Software while performing activities or wherever instructions provided
 - ▶ Installing and Programming in Thonny Software
 - ▶ How to perform any Quizzes & Activities Lesson Plans must also be reviewed in-advance to meet all the requirements before the sessions start
 - ▶ It is necessary to visit all the reference links to reinforce the concepts

Section-II System Specification

A) Operating System

- ▶ Windows: Windows 7(64-bit editor), Windows 8(64-bit editor),,
- ▶ Windows 8.1(64-bit editor),, Windows 10 (64-bit editor), or newer
- ▶ Mac: OS X / macOS 12.0 or later

B) Supported Browser

- ▶ Google Chrome
- ▶ Firefox
- ▶ Safari
- ▶ Microsoft Edge

Section-III Internet Connectivity

- ◆ The first and foremost requirement is a good network connectivity for the smooth running of the classes otherwise it may lead to;
- ◆ Lack of internet connectivity may cause:
 - ▶ Audio/Visual Disturbances
 - ▶ Some Quizzes may not work properly
 - ▶ Captions or Images may not be displayed
 - ▶ Activity's Instruction may not be clear
 - ▶ Software glitches may also occur

Section-IV Digital Equipment

- ◆ Laptop or Desktop/ Android/MAC
- ◆ Headphones (in-case of Requirements)

Section- V Software Overview

- ◆ In this course, kids will learn Python programming using Thonny Software
- ◆ Understand its purpose and installed the software following “Step-by-step guideline”
- ◆ Familiarize kids with Thonny's interface and layout
- ◆ Explore basic instructions on how to write and edit code in Thonny.
- ◆ Run the Code by executing it and by viewing its output
- ◆ Introduce simple debugging techniques, like identifying errors and using the debugger.

Section- VI How to Perform “Python Session”

- ◆ Once you login into the session, please go through the “Lesson Plans” for each day
 - ▶ Lesson Plans are prepared for Each Day with the following details:
 - ▶ Estimated Time Requirements & Objective of the Session
 - ▶ Learning Resources Link
 - ▶ Software Links and other important links for the session
 - ▶ Details of Learning Materials if required
- ◆ Once the session starts reloading again and audio/video is paused due to bad internet connectivity, then refresh the page
- ◆ Sessions contain the Topics based on objective of Session, Summary, Assignment & Knowledge Check Quiz.
- ◆ It also contains the “Steps of Instructions” for performing Activity
- ◆ Activity’s Instructions and Knowledge Check Quiz must not be skipped
- ◆ APerforming Activities enables Learners to understand the logics and concepts applied in Python programming and circuit connection.
- ◆ For performing any activities, the toggling of a window between instructions and software must be followed as mentioned on the Activities slides.
- ◆ Time Requirements may vary Day-wise or Activity wise depending upon the Topic Covered. However, the Estimated Time for the Session is 60 Mins.
- ◆ Each Day Assets links is provided on the session itself for the Python programming or performing any Assignment

Note: Estimated Time Duration for Completion of Course is 3 Months