

PYTHON WORKSHOP SYLLABUS

XXVIER COMPUTER AND CODING CLUB 2078

Contents	
Aims of the sylla	bus
Syllabus content	5 5
	•••••

Aims of the Syllabus

We the Club members while designing this syllabus had the following aim that would make the individuals stand out among others and build up a great career.

- Make students a programmer with knowledge of algorithm, flow chats and so on.
- 2. Let students know, knowing a programming language is not only enough to be a programmer.
- Increasing problem solving habits and develop habits of computational thinking.
- 4. Provide roadmap for various IT sectors such as Data Science, Web-app Development.
- Providing registered members with best resources for programming and many more.

Syllabus Contents

PHASE 1 (LEARN THE SEA)

- 1. What is programming and why program?
- 2. Programming Languages
- 3. Code editor, IDLE, IDE
- 4. Computational Thinking
- 5. Algorithm

PHASE 2 (GET INTO THE SEA)

- 1. Python at a glance
- 2. Mathematical Expressions
- 3. Identifiers and Constants
- 4. Variables And Data types
- 5. Conditionals
- 6. Iterations
- 7. Lists

- 8. Tuples
- 9. Dictionaries
- 10.Modules
- 11. Functions

PHASE 3 (BUNK OFF THE SEA)

- 1. Gít and GítHub
- 2. Use the git bash
- 3. Choose a code editor
- 4. Manipulating strings
- 5. File Handeling
- 6. Web-scrapping
- 7. Pattern matching
- 8. Emails with python
- 9. Using Images
- 10. Controlling Keyboard with GUI automation

PHASE 4 (GET TO THE SHORE)

- 1. HTMl and CSS
- 2. Intro to GUI
- 3. Tkinter Basics
- 4. Make Calculator with Tkinter
- 5. Django Basics
- 6. Portfolio website with Django
- 6. Making a simple profile based system with Django

Resources

- freecodecamp.org
- 2. coursera.org
- 3. <u>udemy.com</u>
- 4. hacr.ío
- 5. <u>sololearn.com</u>
- 6. upskillcourses.com
- 7. codeconquest.com

- 8. <u>w3schools.com</u>
- 9. <u>freecodecamp.org</u>(YouTube)
- 10. edureka (You Tube)
- 11. Codewithharry(YouTube)
- 12. Geekyshows (YouTube)