



SRR & CVR GOVT. DEGREE COLLEGE (A) , VIJAYAWADA

DEPARTMENT OF MATHEMATICS

**Report by Smt. K.V. Naga Lakshmi,
HOD of Mathematics.**

PYTHON COURSE

**IN SRR & CVR GOVERNMENT DEGREE COLLEGE (A),
VIJAYAWADA**

DEPARTMENT OF MATHEMATICS

Certificate Course in Python Programming Language

During Summer, Mathematics Department has conducted **“PYTHON Coding Language Certificate Course”** with the collaborations of A.P.S.S.S.D.C. (A.P. Skill Development Corporation). The course was conducted for 120 Hours from 08-05-2019 to 08-06-2019.

65 Students have participated and completed successfully. Total Five Certificates are awarded to each one of the student from **University of MITICHGAN**

One month certificate course in **Python**
Programming Language conducted from
8/05/2019 to 8/06/2019 through APSSDC
offered by MIT, USA.

No. of participants: 65

Dt. 13-04-2019

To

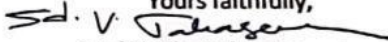
THE PRINCIPAL
SRR & CVR GOVT. DEGREE COLLEGE (A)
MACHAVRAM, , VIJAYAWADA

Respected Sir,

 Sub: Requesting permission to start Python Program in our College - Reg.

Dear Sir, I Syed Vaziha Tahaseen , working as Assistant Professor in Biochemistry, SRR & CVR GDC (A). Vijayawada, acting as SPOC for APSSDC, requests to start Python offline course in our college from 01 May 2019, so that students can utilize this year summer vacation for gaining knowledge and skills through APSSDC. The number of students interested to join in the above course are 65.

Thanking you Sir.

 Yours faithfully,
Syed Vaziha Tahaseen.

Dt. 20-04-2019

To
The Executive Director,
Andhra Pradesh State Skill Development Corporation.

Respected Sir,

Sub: Requesting for offline trainer to start Python Program - Reg.

Dear Sir, I, Syed Vaziha Tahaseen, working as Assistant Professor in Biochemistry, SRR & CVR GDC (A), Vijayawada, acting as SPOC for APSSDC, requests the executive Director APSSDC to start Python offline course in our college SRR & CVR GDC (A), Vijayawada and also request to provide faculty to teach the above program. We have already informed about the requirement of this course in our college and request you to start the course from immediate effect that is of 01 May 2019, so that students can utilize this year summer vacation for gaining knowledge and skills through APSSDC. The number of students interested to join in the above course are 65.

Thanking you Sir.

SPOC



PRINCIPAL

SRR & CVR GOVT. DEGREE COLLEGE (A)
Machavaram, VIJAYAWADA-520 004.

For more info: Name: Rajendra Prasad, Mail: rajendra.k@apssdc.in, Contact: 9849186838



ESC CLASSROOM TRAINING

Curriculum Framework for PYTHON Training

Main Topic	Week	Sub Topic	Sub Topic Duration (Hours)	Total Duration
1.Introduction to Python	Week 1	Installation of Python	2	12
		Using the Python Interpreter IDLE	4	
		Salient Features of Python	4	
		Basic Syntax of Python	2	
2.Using Variables in Python	Week 1	Data Types and Variables	4	20
		Numeric Data Types	4	
		String Data Type	4	
	Week 2	Sequence Data Type	4	
		Dictionary Data Type	4	
3. Basics of Programming in Python	Week 2	Understanding Programs and Programming	4	24
		Using Conditionals	4	
		Using Loops	4	
	Week 3	Using Functions	4	
		Using Functions from Built-in Modules	4	
		Constructing Modules and Packages	4	
		Overview of OOP	2	
4. Principles of Object-oriented Programming (OOP)	Week 3	Declaring Class and Creating Object	4	14
		Understanding Inheritance	4	
		Using Magic Methods	2	
	Week 4			
5. Connecting to SQLite Database	Week 4	Introduction to SQL	4	20
		Creating an SQLite database	8	
		Accessing SQLite Database through Python	8	
6. Developing a GUI with PyQt	Week 4	GUI and Event driven programming	4	20
		Qt Designer	4	
		Using Common Widgets	4	
		Geometry Management	4	



		Designing Menu Systems	4	
				120

Table of Contents:

1. Introduction to Python

- Installation of Python
- Using the Python Interpreter IDLE
- Salient Features of Python
- Basic Syntax of Python

2. Using Variables in Python

- Data Types and Variables
- Numeric Data Types
- String Data Type
- Sequence Data Type
- Dictionary Data Type

3. Basics of Programming in Python

- Understanding Programs and Programming
- Using Conditionals
- Using Loops
- Using Functions
- Using Functions from Built-in Modules
- Constructing Modules and Packages

4. Principles of Object-oriented Programming (OOP)

- Overview of OOP
- Declaring Class and Creating Object
- Understanding Inheritance
- Using Magic Methods

5. Connecting to SQLite Database

- Introduction to SQL



- Creating an SQLite database
- Accessing SQLite Database through Python

6. Developing a GUI with PyQt

- GUI and Event driven programming
- Qt Designer
- Using Common Widgets • Geometry Management
- Designing Menu Systems

Python

Python is a powerful general-purpose programming language. It is used in web development, data science, creating software prototypes, and so on. Fortunately for beginners, Python has simple easy-to-use syntax. This makes Python an excellent language to learn to program for beginners

Any student can pursue the Python programming course. Whether a graduate, a postgraduate, or a 12th pass out students from any field can join the institutes offering Python courses. The course in Python is highly focused on providing the fundamental aspects of language to the students.

Why to Learn Python?

Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages.

Python is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. I will list down some of the key advantages of learning Python:

Python is Interpreted – Python is processed at runtime by the interpreter. You do not need to compile your program before executing it. This is similar to PERL and PHP.

Python is Interactive – You can actually sit at a Python prompt and interact with the interpreter directly to write your programs.

Python is Object-Oriented – Python supports Object-Oriented style or technique of programming that encapsulates code within objects.

Python is a Beginner's Language – Python is a great language for the beginner-level programmers and supports the development of a wide range of applications from simple text processing to WWW browsers to games.

Characteristics of Python

Following are important characteristics of Python Programming –



It supports functional and structured programming methods as well as OOP.

It can be used as a scripting language or can be compiled to byte-code for building large applications.

It provides very high-level dynamic data types and supports dynamic type checking.

It supports automatic garbage collection.

It can be easily integrated with C, C++, COM, ActiveX, CORBA, and Java.

Applications of Python

As mentioned before, Python is one of the most widely used language over the web. I'm going to list few of them here:

Easy-to-learn - Python has few keywords, simple structure, and a clearly defined syntax. This allows the student to pick up the language quickly.

Easy-to-read - Python code is more clearly defined and visible to the eyes.

Easy-to-maintain - Python's source code is fairly easy-to-maintain.

A broad standard library - Python's bulk of the library is very portable and cross-platform compatible on UNIX, Windows, and Macintosh.

Interactive Mode - Python has support for an interactive mode which allows interactive testing and debugging of snippets of code.

Portable - Python can run on a wide variety of hardware platforms and has the same interface on all platforms.

Extendable - You can add low-level modules to the Python interpreter. These modules enable programmers to add to or customize their tools to be more efficient.

Databases - Python provides interfaces to all major commercial databases.

GUI Programming - Python supports GUI applications that can be created and ported to many system calls, libraries and windows systems, such as Windows MFC, Macintosh, and the X Window system of Unix.

Scalable - Python provides a better structure and support for large programs than shell scripting.



Students learning python course



Inauguration of PYTHON Certificate Course Programme





Students Participation



**Training of PYTHON Certificate Course
at Computer Lab**



Training of PYTHON Certificate Course at Computer Lab



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Course Certificates



05/20/2019

Lalam Naidu Babu

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera.

A handwritten signature in black ink, appearing to read 'Charles', written over a horizontal line.

Charles Severance
Clinical Associate Professor, School of Information
University of Michigan

COURSE
CERTIFICATE



Verify at coursera.org/verify/W6F2A467HLEJ

Coursera has confirmed the identity of this individual and their participation in the course.



COURSE
CERTIFICATE

05/21/2019

Lalam Naidu Babu

has successfully completed

Python Data Structures

an online non-credit course authorized by University of Michigan and offered through
Coursera



A handwritten signature in black ink, appearing to read 'Charles'.

Charles Severance
Clinical Associate Professor, School of Information
University of Michigan

Verify at coursera.org/verify/FZVKXSLBE5N6

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their participation in the course.



COURSE
CERTIFICATE

05/22/2019

Lalam Naidu Babu

has successfully completed

Using Databases with Python

an online non-credit course authorized by University of Michigan and offered through Coursera



A handwritten signature in black ink, appearing to read 'Charles'.

Charles Severance
Clinical Associate Professor, School of Information
University of Michigan

Verify at coursera.org/verify/WXGLERVL4F49

Coursera has confirmed the identity of this individual and their participation in the course.

Certificates Distribution

