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CHAITANYA SCIENCE & ARTS COLLEGE

PAMGARH, DIST - JANJGIR-CHAMPA (C.G)



VALUE ADDED COURSE

(Duration : 30 Hours)

ON

PYTHON & MACHINE LEARNING

(Circular No - CSAC/VAC/2022-23/26)

12th to 26th November, 2022

Hybrid Mode(Online / Offline)

Organizing By:
Department of Computer Science & Application
in collaboration with
IQAC, CSAC, PAMGARH
Chaitanya Science & Arts College Pamgarh
Dist-Janjgir-Champa, Chhattisgarh



Permanent Affiliated To:

**Shaheed Nandkumar Patel
Vishwavidyalaya**
Raigarh, Chhattisgarh

MODULES

Module 1: Introduction

- 1.How is Python? (History)
- 2.What is Python?
- 3.Why is Python?
- 4.Where is Python?

Module 2: Development Setup

- 1.Install Python
- 2.Virtual Environment Setup

Module 3: Variables and Datatype

- 1.Python Fundamentals (***)
- 2.Variables
- 3.Data types: String, Integer, Boolean, Float
- 4.None Type
- 5.Operators (***)
- 6.Data Structure: List, Dictionary, Tuple, Array, Set

Module 4: Statement

- 1.Conditional Statement
- 2.Looping Statement
- 3.Nested Loop
- 4.Control Looping
- 5.Break and Continue, pass(**)

Module 5: Numbers & Arrays in Python (***)

- 1.Numbers (math-module & random-module)***
- 2.Array-module(***)

Module 6: Collections (Data-Structures) in Python

- 1.String in Python***
- 2.List in Python***
- 3.Tuple in Python***
- 4.Set in Python***
- 5.FrozenSet in Python***
- 6.Dictionary in Python***

Module 7: Introduction to Machine Learning

Brief Introduction
Data Pre Processing
Machine Learning Techniques

Module 8: Career Guidance by Experts

ABOUT THE PYTHON

Python is a popular general-purpose programming language that can be used for a wide variety of applications. It includes high-level data structures, dynamic typing, dynamic binding, and many more features that make it as useful for complex application development as it is for scripting or "glue code" that connects components together. It can also be extended to make system calls to almost all operating systems and to run code written in C or C++. Due to its ubiquity and ability to run on nearly every system architecture, Python is a universal language found in a variety of different applications.

COURSE OBJECTIVE

- 1.To introduce students to the basic concepts and techniques of Machine Learning.
- 2.To develop skills of using recent machine learning software for solving practical problems.
- 3.To gain experience of doing independent study and research.
- 4.To acquire programming skills in core Python.
- 5.To acquire Object Oriented Skills in Python.
- 6.To develop the skill of designing Graphical user Interfaces in Python

COURSE OUTCOME

At the end of the course, the student will be able to

- 1.Understand machine learning concepts and range of problems that can be handled by machine learning.
- 2.Compare and parameterize different learning algorithms.
- 3.Apply the machine learning concepts in real life problems.
- 4.Explain basic principles of Python programming language.
- 5.Implement object oriented concepts,
- 6.Implement database and GUI applications.

ONLINE RESOURCES

<https://www.python.org/>

<https://www.w3schools.com/python/>

https://www.w3schools.com/python/python_ml_getting_started.asp

ABOUT COLLEGE

With the birth of new state Chhattisgarh in year 2001, Chaitanya Science & Arts College was established in rural pocket of central Chhattisgarh with aim to develop the rural youth into promising human resources according to the present social needs. Today Chaitanya College is running various job oriented under Graduate and Post Graduation Programmes and Diploma Programmes to empower the young minds. We are elated that our endless efforts and hard work have resulted in success. Year after year our employment oriented curriculum along with necessary educational infrastructure has continued to empower our Students. Our efforts will forever march towards perfection.

REGISTRATION

REGISTRATION FEE : ₹100

REGISTRATION LINK

<https://forms.gle/dCCrWSdRkky41kkg8>



PAYMENT TO

PhonePe/Gpay : 7898726342

SCHEDULE



Online Lecture Link

<https://meet.google.com/qwj-bnmg-wnm>

Schedule



**12th to 26th November, 2022
Mon-Sat, at 2.30 PM**



After successful participation , participant will be award a valid certificate for future reference.

CONTACT

For any query contact us on:

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for more details visit

www.chaitanyacg.ac.in

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