

**REGISTRATION FORM**

Name .....

Branch .....

College .....

Address .....

Mobile No .....

Email .....

**Payment details:**

Mode of payment: .....

Reference no. and Date: .....

Signature of the Applicant

Place

Date:

Registration Link:

<https://forms.gle/zNACfvhWg7bBd6L9A>



**REGISTRATION**

**Registration fee is Rs.3250/- (inclusive of GST).**

Filled up registration form along with payment proof to be sent to the coordinator **on or before 2.04.2024.**

➤ Timing: 9.30am-12:30 pm,  
2.00pm-4.00pm.

➤ Certificate will be provided.

**For registration and payment contact**

**Ms K.Sudha**

Co-Coordinator  
Department of Computer Networking  
PSG Polytechnic College

**Mob.: 9597384655**

**Email ID:dept.dcn@psgpolytech.ac.in**

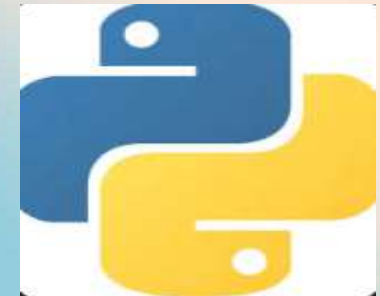
**One week Hands-on Workshop**

**On**



**Python for All  
3<sup>rd</sup> to 11<sup>th</sup>**

**May 2024**



**Organized by  
Department of  
ComputerNetworking**

PSG Polytechnic College  
Peelamedu,  
Coimbatore 641004  
Tel: 0422-2572177/  
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## ABOUT THE COLLEGE

PSG Polytechnic College, established in the year 1939, a pioneer institute in the field of Technical Education and Research is a Government-aided, ISO 9001:2015 certified institution with Autonomous status since 1976. This aids it to have a flexible curriculum and updated syllabi. The Polytechnic College has signed MoU with leading International Glasgow University (UK). The Industry attachment Programme, compulsory for all courses provides the student's exposure for current industrial practices. The college is located on the same campus as the PSG Industrial Institute.

## ABOUT THE DEPARTMENT

The Department of Computer Networking was started in the year 1998 and accredited by NBA in the year 2021. This Department offer 3 years Diploma Programme in Computer Networking. The Department is well equipped with separate Computer Networking, Wireless Networks and Internet of Things Laboratories with experienced faculty members. The department organizes various continuing education Programmes for students and Industrialists. The department also provides consultancy for various industries.

## COURSE OBJECTIVE

### ➤ Python Basics:

Provide a foundational understanding of Python syntax, data types, control structures, and basic input/output operations.

### ➤ Python Packages:

Explore the familiar packages of python like pandas, numpy, opencv, pip, tkinter, matplotlib, Tensorflow

### ➤ Python File Handling:

Learn how to perform file input/output operations in Python, including reading from and writing to files, handling exceptions, and managing file objects.

### ➤ Python Database Implementation:

Introduce database concepts in Python, including connecting to databases, executing SQL queries, and performing CRUD (Create, Read, Update, and Delete) operations.

### ➤ Python Django:

Provide an introduction to Django, a high-level Python web framework, covering topics such as model-view-controller (MVC) architecture, URL routing, template rendering, and database integration.

### ➤ Python Networking:

Explore networking concepts in Python, including socket programming, TCP/IP and UDP protocols, client-server communication, and network security.

### ➤ Python IoT

Gain proficiency by using Python with IoT.

### ➤ Python Tkinter & JSON (JavaScript Object Notation):

Understand Tkinter & JSON data format and learn how to parse, serialize, and manipulate JSON data using Python.

Learn how to develop Graphical User Interfaces (GUIs) for Python applications, focusing on interaction design, event handling, and integration with hardware devices or software systems.

## TOPICS COVERED

### ➤ DAY 1 - 2

- ✓ Introduction to Python
- ✓ Setting Up Development Environment
- ✓ Python Syntax
- ✓ Basic Operations
- ✓ Control Flow
- ✓ Lists
- ✓ Tuples
- ✓ Dictionary

### ➤ DAY 3

- ✓ Packages: pandas, numpy, opencv,
- ✓ pip, tkinter, matplotlib, Tensorflow

### ➤ DAY 4

- ✓ Python Basic Practice
- ✓ Python Functions
- ✓ Python file Handling
- ✓ Python file Handling Practice
- ✓ Python Functions Practice

### ➤ DAY 5

- ✓ Python database
- ✓ Python database Implementation
- ✓ Python Tkinter
- ✓ Python Django

### ➤ DAY 6

- ✓ Python Networking
- ✓ Python Networking Implementation
- ✓ Python Database Practice
- ✓ Python Django Practice

### ➤ DAY 7

- ✓ Python IoT
- ✓ Python IoT integration
- ✓ Project Demo

By mastering these topics, participants will gain a solid foundation in Python programming, empowering them to pursue further studies or embark on careers in software development and related fields.

## COORDINATOR

**Dr S Brindha**

HoD

Dept. of Computer Networking  
PSG PTC

## CO-COORDINATOR

**Ms K.Sudha**

Lecturer

Dept. of Computer Networking  
PSG PTC