

Registration Form
Two days STTP on
"Python Programming for IoT"
Special session on "Funding Opportunities from DRDO"

1. Name:

2. Designation:

3. Department:

4. Organization / Institute:

5. Address:

Mobile:

Email:

6. Accommodation Required: Yes / No

7. Particulars of Fees: Rs.

DD No. : Date:

Bank Details:

(DD shall be withdrawn in favour of SSDGCT's GOI Faculty of Engineering)

Date:

Participant's Signature

Sign and Seal
Head of Institute

Registration Fees

Rs. 500 per participant
(Registration fee includes workshop kit, certificate, lunch, tea.)

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Convener

Prof. (Dr.) Suryakant B. Patil
Head & Professor CSE Department

Co-ordinators

For registration please contact

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Asst. Prof. CSE Dept.
Mob.: 8390884454

Prof. S.H. Dinde
Asst. Prof. CSE Dept.
Mob.: 7588171304

Organizing Committee

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Co-ordinator, IT Cell

www.sginstitute.in/python

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ISTE & CSI approved
Two days STTP



on
"Python Programming for IoT"
Special session on
"Funding Opportunities from DRDO"

10th & 11th June, 2016



Organised by :

**Department of
Computer Science & Engineering**



Sou. Sushila Danchand Ghodawat Charitable Trust's
Sanjay Ghodawat Group of Institutions

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About SGI

Spread across 150 Acres, Sou. Sushila Danchand Ghodawat Charitable Trust's Sanjay Ghodawat Group of Institutions (SGI) is situated in serene atmosphere amidst idyllic hills and lush green meadows. The Institution aspires to run along the lines of best-in- the-world education and become a world-class institution where teaching-learning process gets a far deeper meaning. The institute is ISO 9001: 2008 certified, NBA Accredited & NAAC 'A' grade, also ranked 44th among Private Institutes of the Nation by Times Engineering Ranking by Times of India. The institute offers Engineering, Management, Polytechnic , International School, Junior College, IIT & Medical Academy, Olympiad Academy and has approx. 11,000 students.

About CSE Department

At CSE Department we focus on the Students' 360 degree development, we believe in the "Train the Trainer" Concept to upgrade our teachers who will in turn be better equipped to impart skills to the students. The department has excellent infrastructure at par with IT corporate industries with state-of-the-art equipments and softwares. We have exclusive 100 Mbps lease line & VLAN with manageable switches to provide strong Bandwidth and WiFi services. We all are progressing towards the visions of "Make in India" and "Digital India". The vision is 100% deployment & usability of the FOSS (Free Open Source Software) and Initiatives towards the successful startups at the incubation center to achieve the goals. The Department's USP is the active involvement of the students towards strengthening the "Industry Institute Interaction" through the means of IT internships, Industry Sponsored Projects, Hi-Tech Seminar Series by an IT industry experts, Hands-on Workshops of Advanced Technologies, followed by the Corporate Training and Certification of Microsoft .NET, ORACLE OCPJ/OCJA (WDP center of ORACLE), CISCO Training and Certification and FOSS (Free Open Sources Software), Big data, Cloud and Mobility Laboratory development.

About STTP

The workshop aims at Demonstration & Practical sessions on Python programming for IoT. Python is a very powerful high-level, object-oriented programming

language and it is a very easy-to-use and has simple syntax. Python is Free and Open Source Programming Language which will help for decreasing software costs, increasing security and stability, protecting privacy, and giving users more control over their hardware. Unfortunately softwares are not patented so there is need that electronic devices and IoT work with python. The Internet of Things (IoT) is a system of inter-related computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network. Python with IoT helps to build Digital India concepts through Mini-projects as well as major projects undertaken by UG/PG students. Hence after completion of this workshop participants will able to understand IoT concepts and implement them practically.

Objectives

- To learn concepts on Python Programming for IoT.
- Learn how to set up and install Python Software
- Demonstration and Hands-on Practical session on Python application.
- To learn Data Structures & Advanced Topics in Python.
- To learn creating custom APIs and Framework.
- Figure out what tools to use for UG/PG Python projects.

Course Content

Special Session on "Funding Opportunities from DRDO" by Captain S.K. Thakur

Day 1 : Introduction to python as a scripting Language

PART I :

- Introduction
- Getting started, prerequisites and installation
- Questions and Answers

PART II

- helloworld.py
- fundamentals (datatypes, variables, functions, classes, objects, OOP fundas)
- programming (conditionals, control structures, loops,)
- Exception Handling

- Questions and Answers

PART III

- Lists, Tuples, Sets and Dictionaries
- Data structures
- File operation
- Questions and Answers

Day 2 : Advanced Python and IoT

PART I

- Writing custom modules and importing them in scripts.
- Exploring standard Libraries and APIs
- Creating custom APIs and Framework
- Questions and Answers

PART II

- Introduction to IoT and its Applications
- Basic concepts in IoT
- Questions and Answers

PART III

- Internals of an IoT application
- Sample IoT project demo.
- Questions and Answers

Validatory Function (Chief Guest)

Prof. (Dr.) Vijay R. Ghorpade

Chief Guest & Resource Person

Captain S.K. Thakur

Dy Director General (Marine Projects)

Prof. (Dr.) Vijay R. Ghorpade

Principal, Dr. D.Y. Patil College of Engineering, Kolhapur,
Chairman, BOS (CSE), Shivaji University

Mr. Narendra Petkar

M.Tech. (CS VJTI Mumbai) and
Software Engineer at GS LAB, Pune

Important Dates

Workshop:
10th & 11th June, 2016

Registration on or before:
05th June, 2016