# Visvesvaraya Technological University "Jnana Sangama" Belagavi



Workshop On "Python"

21, 22 & 23 August, 2017



Director

Internal Quality Assuran Coordinator
(10AC)
Visvesvaraya Tout of Dr. Rashmi R. Rachh
Associate Professor, Dept. of Computer Science &
Engineering, VTU, Belagavi

Organized by

Department of Computer Science & Engg. **Centre for P.G Studies** Visvesvaraya Technological University, Belagavi 590018

### **ABOUT VTU**

Visvesvaraya Technological University, named after Bharath Rathna Dr. Sir. M. Visvesvaraya, began its journey in the year 1998 and has established as one of the largest technological universities in the country with 200+ engineering colleges affiliated to it. VTU imparts technical education to more than 4 lakh students under its 35 UG and 94 PG programs. There are over 592 departments of affiliated colleges recognized as research centres across the state. Recently, the university has been awarded with the Best University in the country with regards to use of advanced technology in the field of conduct of examination, evaluation & result declaration. VTU has established 25 extension centres/centres of Excellence throughout Karnataka & entered MOUs with more than 25 reputed National & International organisations/ Multinational companies. It is known for having different pedagogy, procedures, traditions, excellent physical infrastrumer and also for having a pool of intellectual and professional academicians.

### CENTRE FOR POST GRADUATE STUDIES

Centre for Post Graduate studies, Belagavi was established in the year 2002 with all necessary infrastructure required for imparting quality education. There are five full time and two part time M.Tech. programs as well as MCA and MBA programs with full time well qualified and experienced faculty in all the departments.

### COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Department of Computer Science and Engineering was established in the year 2006. Faculty of the department have wide professional expertise and are actively involved in research and technical services. The area of research includes image processing, network security, Big data analytics, machine learning and many more. The department is also very active in manpower development and regularly organizes tailor-made workshops and training programs.

### **ABOUT PYTHON**

Python is a general purpose versatile and remarkably powerful dynamic programming language used in wide variety of application domains. Python supports multiple programming paradigms including object oriented, imperative and functional programming styles. It can be used in various applications such as numeric and symbolic computation, 2D/3D plotting, scientific computing, machine learning and many more. The use of Python in wide range of applications makes it an essential pre-requisite for all the students and faculty to be acquainted with. Therefore, this workshop aims at imparting basics of Python including hands on sessions.

### **COURSE CONTENTS**

COCIO
Day 1:
Session 1:
1. Introductio
2 IPuthon an

- coduction to Python
- 2. IPython and Plotting

### Session 2:

- 1. Plotting Lists and NumPy Arrays
- 2. PythonData Types, control structures Input Output

### Day 2:

### Session 1:

- 1. Python Functions, Modules
- 2. Exceptions

### Session 2:

- Python classes and Object
   Oriented Programming
- 2. Scientific Computing Applications

### Day 3:

### Session 1:

- Image Processing, Data Mining, Statistical Analysis
- 2. Simple Web applications
  Using Python Flask

### WHO CAN APPLY?

Leulty members from any stream from AICTE approved engineering colleges.

### REGISTRATION

Participants interested in attending the workshop must register online at workshop.vtu.ac.in. The registration fee of Rs. 500 / should be in the form of demand draft in the favour of Finance Officer, VTU, Belagavi. The participants will be provided will the course material and certificate. The hard copy of the registration form with signature of the participant and the principal/head of the institution may be submitted at the time of workshop. The number of participants is restricted to 50. Participants are requested to get their laptop during workshop for hands-on training.

### RESOURCE PERSONS

Leading academicians from reputed institutions like IIT Bombay, KLE Technological University, Hubli and other organizations.

### **VENUE & IMPORTANT DATES**

Workshop will be conducted at- Senate hall, Visvesvaraya Technological University, Belagavi.

	LAST DATE FOR ONLINE REGISTRATION	11th August, 2017
William Services	CONFIRMATION TO THE PARTICIPANTS	16th August, 2017

### **ACCOMODATION**

Accommodation will be provided to the outstation participants on request and first come first serve basis at nominal charges.For Accommodation contact.

Mr. Mahesh Neelgar Asst. Prof. Dept. of VLSI and embedded systems. E-mail: mahesh.n@vtu.ac.in M: 9738280658

### ADDRESS FOR CORRESPONDENCE

Dr.Rashmi R Rachh Associate Professor Dept. of Computer Science and Engineering Centre for PG Studies, VTU, Belagavi-590018 Email: rashmirachh@vtu.ac.in

### **CHIEF PATRON**

### Dr. Karisiddappa

Hon'ble Vice- Chancellor, VTU, Belagavi

### **PATRONS**

Dr. H. N. Jagannatha Reddy

Dr. Satish Annigeri

Registrar, VTU, Belagavi

Registrar (Evaluation), VTU, Belagavi

Mrs. M.A.Sap na

Finance Officer, VTU, Belagavi

### **WORKSHOP CHAIR**

Dr. Shivaprasad B. Dandagi

PG Co-ordinator, CPGS, VTU, Belagavi

### **ORGANISING COMMITTE**

Dr. S. A. Angadi

Professor Dept. of Computer Science & Engineering,

Centre for P.G. Studies,

VTU, Belagavi.

Mr. Vivek Reddy

Mrs. Ranjana N.

Asst. Prof. Dept. of Computer Science & Engineering,

Centre for P.G. Studies,

VTU, Belagavi.





# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy, B.E. M.E., Ph.D. Registrar

Phone: (0831) 2405468 Fax: (0831) 2405467

Ref.: VTU/Aca/2017-2018/3457

Date: 3 AUG 2017

### **CIRCULAR**

Sub: Workshop on Scilab and Python---Reg.

Ref: Hon'ble Vice-Chancellor approval dated 17-6-2017.

With reference to the above subject, department of Computer Science and Engineering, Center for Post Graduate Studies, Belagavi, is organizing

Two days workshop on Scilab

18-19 August, 2017

Three days workshop on Python:

21-23 August, 2017

Faculty members from any stream can attend this workshop. Interested faculty members can register online at workshop.vtu.ac.in. The brochures for both the workshops are enclosed herewith.

For any queries, contact: Dr. Rashmi R. Rachh, Department of Computer Science & Engineering, Center for Post Graduate Studies, Belagavi, e-mail: rashmirachh@ytu.ac.in,

You are requested to bring this to notice of all the faculty members of your institution.

By Order Sd/-REGISTRAR

To,

- 1. The Principals of all Engineering Colleges affiliated and the constituent Engineering College, VTU, Belagavi.
- 2. The PG Coordinator, VTU Extension Centre/ Regional Centre for PG Studies in Bengaluru, Belagavi, Kalaburagi & Mysuru.

Copy to,

- 1. The Special Officer, VTU's Regional Office at Bengaluru, Belagavi, Kalaburagi & Mysuru for information.
- 2. The Secretary to VC, VTU, Belagavi.
- 3. CNC to upload on the website

Director

**Internal Quality Assurance Cell** (IQAC) Visvesvaraya Technological University,

Belgavi - 590018

10

Workshops on Scilab and Python at Visvesvaraya Technological University, Belagavi

In order to promote the usage of Free and Open Source Software (FOSS) among students and faculty of Visvesvaraya Technological University, Department of Computer Science and Engineering, Centre for post graduate studies, Belagavi is organizing workshops on Scilab and Python. Workshop on Scilab is scheduled between 18 &19 August 2017 and workshop on Python is scheduled from 21-23 August 2017. These workshops have been organized deriving inspiration from the activities of MHRD funded FOSSEE project at IIT Bombay. Prof. Kannan Moudgalaya, principal investigator of FOSSEE project at IIT Bombay is the keynote speaker. The other resource persons are from IIT Bombay and KLE technological University, Hubballi. Faculty members from VTU affiliated colleges and industry are participating in this workshop.

Director
Internal Quality Assurance Cell
(IQAC)
Visvesvaraya Technological University,
Belgavi - 590018



# Visvesvaraya Technological University, Belagavi Department of Computer Science and Engineering

Centre for P.G. Studies, "Jnana Sangama", Belagavi - 590018

# Workshop on Python, 21st - 23rd August, 2017 Session Attendance Sheet

Session: Afternoon

Date: 21/08/2017

Sl. No.	Name of the Participant	Singature
1	Roopa, M.U.	(Waste
2	sucta, N Patil	Suf
3	July Mayannaval	dutre.
4	Shilpa- Kamath	Teanath.
5	Mechana Kulhaeni	M.
6	Ranjeina. B. X	Buy 1
7	Geetha Kiman A	Contraction
'8	Vidya Chilapur	2
9	Sasjana. M. Kawalagi	Canjara
10	Renla. B	Panal
11	Shilpa. Kamath	
12	Thanky a T. C.	- A-VL
13	Vinaykumas. Hi Halamani	12 04
14	Rohit B.K	918
15	Shiraguada Pati	Taget of
16	Priyo M. Gowl	P.V. Conote.
17	J. M. Patloushelli	The state of the s
18	Simplyhuai N	de Biste.
19	Yani-M	Vans
20	Kekha A	Reclie. A
21	Sunita S Ratnoj	Satroj.
22	Keesti Mareful	red of
23	S. R. Nagarmulash	low
24	Ly Cotooppa gybo	Mo
25	Dr. Natural Viabus	PA AM
26	TMO T. Phatak	
27	Muttana B	Dewitt.
28	Karendea S. Hande	The same of the sa
29	Mothesh. S. Wathfall M. S. Emmi	
30	C P T W WI	245
31	Sachidananda - S. Joshi Pranen kukarni Ravindra pahi	0.
32	Planen Koncorn.	6 d
33	Kaninara pari	Rocery Dalle.
34	Allena L	XILLE.

Director

Internal Quality Assurance Cell (IQAC) Visvesvaraya Technological University,

Belgavi - 590018



# Visvesvaraya Technological University, Belagavi Department of Computer Science and Engineering

Centre for P.G. Studies, "Jnana Sangama", Belagavi - 590018

# Workshop on Python, 21st to 23rd August, 2017 Session Attendance Sheet

Date: 21/08/2017 Session: Afternoon

Sl. No.	Name of the Participant	Singature
35	Soumyashell R M	
36	200jal Mallasure	Paralis
37	Prema Malali	Siring
38	Chaitanua S.A	111
39	Rohan S. Gurar	gerhay
40	Chaitna D.B	Que OB
41	Aditya. G.S.	Adi.19 a. a. S
42	Anjankya. B.	Anjanya
43	Panh ant. K	5
44	Shweta. S.N.	Chinita
45	Shilpa. M. H.	elicoa.
46		
47		
48		
49		
50		
51	and the same of th	
52		
53		
54		
55		
56		
57		
58		
- 59		
60		

3

Director

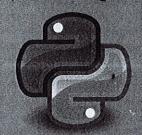
Internal Quality Assurance Cell (IQAC) Visvesvaraya Technological University, Belgavi - 590018

# Visvesvaraya Technological University "Jnana Sangama" Belagavi



Workshop On "Python"

21, 22 & 23 August, 2017



### Coordinator

Dr. Rashmi R. Rachh Associate Professor, Dept. of Computer Science & Engineering, VTU, Belagavi

### Organized by

Department of Computer Science & Engg. Centre for P.G Studies Visvesvaraya Technological University, Belagavi 590018



Internal Quality Assurance Cell (IQAC) Visvesvaraya Technological University, Belgavi - 590018 Visvesvaraya Technological University, named after Bharath Rathna Dr. Sir. M. Visvesvaraya, began its journey in the year 1998 and has established as one of the largest technological universities in the country with 200+ engineering colleges affiliated to it. VTU imparts technical education to more than 4 lakh students under its 35 UG and 94 PG programs. There are over 592 departments of affiliated colleges recognized as research centres across the state. Recently, the university has been awarded with the Best University in the country with regards to use of advanced technology in the field of conduct of examination, evaluation & result declaration. VTU has established 25 extension centres/centres of Excellence throughout Karnataka & entered MOUs with more than 25 reputed National & International organisations/ Multinational companies. It is known for having different pedagogy, procedures, traditions, excellent physical infrastructure and also for having a pool of intellectual and professional academicians.

### CENTRE FOR POST GRADUATE STUDIES

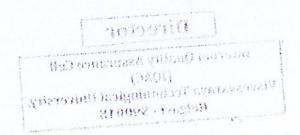
Centre for Post Graduate studies, Belagavi was established in the year 2002 with all necessary infrastructure required for imparting quality education. There are five full time and two part time M.Tech. programs as well as MCA and MBA programs with full time well qualified and experienced faculty in all the departments.

### COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Department of Computer Science and Engineering was established in the year 2006. Faculty of the department have wide professional expertise and are actively involved in research and technical services. The area of research includes image processing, network security, Big data analytics, machine learning and many more. The department is also very active in manpower development and regularly organizes tailor-made workshops and training programs.

### ABOUT PYTHON

Python is a general purpose versatile and remarkably powerful dynamic programming language used in wide variety of application domains. Python supports multiple programming paradigm including object oriented, imperative and functional programming styles. It can be used in various applications such as numeric and symbolic computation, 2D/3D plotting, scientific computing machine learning and many more. The use of Python in wide range of applications makes it as essential pre-requisite for all the students and faculty to be acquainted with. Therefore, this workshop aims at imparting basics of Python including hands on sessions.



### **COURSE CONTENTS**

Day 1: Session 1: 1. Introduction to Python 2. IPython and Plotting Session 2: 1. Plotting Lists and NumPy Arrays 2. PythonData Types, control

Day 2: Session 1:

1. Python Functions, Modules

2. Exceptions

Session 2:

1. Python classes and Object Oriented Programming

2. Scientific Computing Applications

Session 1: image Processing Data Minin

Statistical Analysis 1. Simple Web applications Using Python Flask

### structures Input Output WHO CAN APPLY?

Faculty members from any stream from AICTE approved engineering colleges.

### REGISTRATION

Participants interested in attending the workshop must register online at workshop vtu.ac.in. The registration fee of Rs. 500 / should be in the form of demand draft in the favour of Finance Officer, VTU, Belagavi. The participants will be provided will the course material and certificate. The hard copy of the registration form with signature of the participant and the principal/head of the institution may be submitted at the time of workshop. The number of participants is restricted to 50. Participants are requested to get their laptop during workshop for hands-on training.

### RESOURCE PERSONS

Leading academicians from reputed institutions like IIT Bombay, KLE Technological University, Hubli and other organizations.

### **VENUE & IMPORTANT DATES**

Workshop will be conducted at-Senate hall, Visvesvaraya Technological University, Belagavi.

ははないのでは、	LAST DATE FOR ONLINE REGISTRATION 11" August, 2017	NACKSPERSONAL PROPERTY.
STATE STATE	CONFIRMATION TO THE PARTICIPANTS 16" August, 2017	

### **ACCOMODATION**

Accommodation will be provided to the outstation participants on request and first come first serve basis at nominal charges. For Accommodation contact.

Mr. Mahesh Neelgar Asst. Prof. Dept. of VLSI and embedded systems. E-mail; mahesh.n@vtu.ac.in M: 9738280658

### ADDRESS FOR CORRESPONDENCE

Dr.Rashmi R Rachh **Associate Professor** Dept, of Computer Science and Engineering Centre for PG Studies, VTU, Belagavi-590018 Email: rashmirachh@vtu.ac.in

Director

**Internal Quality Assurance Cell** (IQAC) Visvesvaraya Technological University,

Belgavi - 590018

### **COURSE CONTENTS**

Day 1: Session 1:

- 1. Introduction to Python
- 2. IPython and Plotting

Session 2:

- 1. Plotting Lists and NumPy Arrays
- 2. PythonData Types, control structures Input Output

Day 2:

Session 1:

- 1. Python Functions, Modules
- 2. Exceptions

Session 2:

- Python classes and Object
   Oriented Programming
- 2. Scientific Computing
  Applications

Day 3

Session 1:

Image Processing, Data Mining Statistical Analysis

Simple Web applications
 Using Python Flask

#### WHO CAN APPLY?

Faculty members from any stream from AICTE approved engineering colleges,

### REGISTRATION

Participants interested in attending the workshop must register online at workshop vtu.ac.in. The registration fee of Rs. 500 / should be in the form of demand draft in the favour of Finance Officer, VTU, Belagavi The participants will be provided will the course material and certificate. The hard copy of the registration form with signature of the participant and the principal/head of the institution may be submitted at the time of workshop. The number of participants is restricted to 50. Participants are requested to get their laptop during workshop for hands-on training.

### RESOURCE PERSONS

Leading academicians from reputed institutions like IIT Bombay, KLE Technological University, Hubli and other organizations.

### **VENUE & IMPORTANT DATES**

Workshop will be conducted at- Senate hall, Visvesvaraya Technological University, Belagavi,

LAST DATE FOR ONLINE REGISTRATION	11 <sup>th</sup> August, 2017
CONFIRMATION TO THE PARTICIPANTS	16" August, 2017

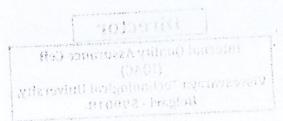
### ACCOMODATION

Accommodation will be provided to the outstation participants on request and first come first serve basis at nominal charges. For Accommodation contact.

Mr. Mahesh Neelgar Asst: Prof. Dept. of VLSI and embedded systems. E-mail:mahesh.n@vtu.ac.in M: 9738280658

### ADDRESS FOR CORRESPONDENCE

Dr.Rashmi R Rachh Associate Professor Dept. of Computer Science and Engineering Centre for PG Studies, VTU, Belagavi-590018 Email: rashmirachh@vtu.ac.in



## CHIEF PATRON

Dr. Karisiddappa

Hon'ble Vice- Chancellor, VTU, Belagavi

### **PATRONS**

Dr. H. N. Jagannatha Reddy

Dr. Satish Annigeri

Registrar, VTU, Belagavi

Registrar (Evaluation), VTU, Belagavi

Mrs. M.A.Sapna

Finance Officer, VTU, Belagavi

## WORKSHOP CHAIR

Dr. Shivaprasad B. Dandagi

PG Co-ordinator, CPGS, VTU, Belagavi

# ORGANISING COMMITTE

Dr. S. A. Angadi

Professor Dept. of Computer Science & Engineering,

Centre for P.G. Studies,

VTU, Belagavi.

Mr. Vivek Reddy

Mrs. Ranjana N.

Asst. Prof. Dept. of Computer Science & Engineering,

Centre for P.G. Studies,

VTU, Belagavi.



# Director

Internal Quality Assurance Cell (IQAC)

Visvesvaraya Technological University, Belgavi - 590018