

CHIEF PATRON

Prof.V. Uma

Vice-Chancellor (I/c), SPMVV

PATRON

Prof.D.M.Mamatha

Registrar, SPMVV

CONVENOR

Prof.S. Jyothi

Secretary, SSIIE

CO-CONVENER

Prof. R. Usha

Executive Member, SSIIE

ORGANISING SECRETARY

Mr. Y. Mallikarjuna Reddy

CEO, SSIIE – TBI

ORGANISING COMMITTEE

Prof. V. KALARANI

Department of Biotechnology

Dr. P. JOSTHNA

Department of Biotechnology

Dr. D. SUJATHA

Executive Member, SSIIE

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(Incubation Manager, SSIIE-TBI)

Dr. D. PRAGATHI

Scientific Assistant, SSIIE-TBI

Ms. Y. USHA

Lab Assistant, SSIIE-TBI

Mr. J. PRAVEEN KUMAR

Computer Operator, SSIIE-TBI

**FOR FURTHER DETAILS OR QUERIES
CONTACT:**

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SSIIE-TBI

One-week Hands-on Workshop

on

“Python for Genomic Data Sciences”

25th - 30th January 2019

REGISTRATION FORM

PERSONAL INFORMATION:-

NAME: DR./MR./MS./MRS.

DESIGNATION:

ACADEMIC QUALIFICATIONS:

DEPARTMENT:

CONTACT DETAILS: -

MOBILE NO.

E-MAIL:(CAPS ONLY)

CORRESPONDENCE ADDRESS:-.....

.....

.....

FEE DETAILS: -

AMOUNT PAID.....

TRANSACTION NO (NEFT)/ DD NO:

DATE:

PLACE:

SIGNATURE



SPMVV-TIRUPATI



(One-Week Hands-on Workshop

on

**“Python for Genomic
Data Sciences”**

From 25th - 30th January 2019

**SPMVV Society for Innovation
Incubation Entrepreneurship
Technology Business Incubator (SSIIE-TBI)**

**Catalyzed & Supported by NSTEDB Division,
DST, Government of India, New Delhi**

SRI PADMAVATI MAHILA VISVAVIDYALAYAM

(Women's University)

**Accredited by NAAC
with 'A' Grade**

Tirupati-517502, Andhra Pradesh, India

Website: www.spmvv-tbi.com | Email ID: ceo.spmvv@gmail.com

ABOUT SRI PADMAVATHI MAHILA VISWA VIDYALAYAM

Sri Padmavati Mahila Visvavidyalayam (Women's university) was established in 1983 to face the social challenges of 21st century for the self-development and empowerment of women through access to education, particularly higher education in varied disciplines. The University is offering 59 courses at the post-graduate and undergraduate level with a good component of research. The Mission of the university is to provide quality education to women students with global standards laying a strong foundation on Indian values and tradition based on current advances in science and technology and societal demands with emphasis on commitment to social progress, peace, harmony and national integration. The University is accredited by NAAC with "A" grade in 2016.

ABOUT TECHNOLOGY BUSINESS INCUBATOR (SSIIE-TBI)

SSIIE-TBI is an initiative of Sri Padmavati Mahila Visvavidyalayam (Women's University) and National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology (DST), Govt. of India. SSIIE-TBI provides a vibrant ecosystem and caters to the demands of business incubators/Start-ups. It supports Innovations, Development of technology & Prototype/ Product Development. With its state-of-art Labs viz., IoT/Robotics Lab, Composite Materials Lab, Life Sciences Lab & Computer Training Lab, SSIIE-TBI is well equipped to cater to the needs of innovators who are inclined towards research and innovation. SSIIE-TBI is a member of ISBA (Indian STEP and Business Incubators Association), ABLE (Association of Biotech-Led Enterprises) and TiE (The Indus Entrepreneurs).

ABOUT THE WORKSHOP

One-week workshop on "Python for Genomic Data Sciences" is being organized by SPMVV Society of Innovation Incubation Entrepreneurship, Technology Business Incubator (SSIIE-TBI). In bioinformatics, nearly every task can be done with one of two programming languages: R and Python.

Python is an all-purpose programming language that has exploded in popularity over the last years, the reason for this massive increase is that Python is easy to learn & easy to read and also it is very versatile. Python can be used from basic scripting for task automation, basic and advanced statistics, advanced plotting to machine and deep learning & many more. The workshop will teach participants basic concepts and tools of bioinformatics programming, help them understand, analyse, and interpret data from sequencing experiments and introduce them to computational tools that deal with large amounts of data.

OBJECTIVES OF THE WORKSHOP

- The aim of this workshop is to equip participants to write basic programs in Python, to adapt existing programs to their needs, and to interface Python programs with various bioinformatics packages through the use of Biopython.
- This workshop covers the key concepts in computing and genomic data science and tools to understand, analyze and interpret data from sequencing experiments.
- At the end of this workshop students would be able to write programs in python and interface python programs with other bioinformatics tools which will be covered in lectures.
- The outcomes of this work should significantly impact the future design of ongoing programs and in turn help them turn into successful entrepreneurs.

THEME OF THE WORKSHOP

- Introduction to the basic biology of modern genomics and the experimental tools that we use to measure it.
- Introduction to the Python programming language and the spyder notebook.
- Write Python programs to solve various tasks you may encounter
- Algorithms and data structures for analysing DNA sequencing data & Evaluate the effectiveness of algorithms
- Formulate a formal computational problem from an informal biological problem
- Statistics behind the genomic data science projects
- Data Visualization
- Overview of startup opportunities ever-expanding field of Genomic Data Sciences.

TARGET AUDIENCE

Faculty, Research Scholars and PG & UG Students

REGISTRATION DETAILS

- Registration Fee: Rs. 2,500/- per candidate.
- Participants restricted to 50.
- Accommodation will be given to out station participants and is chargeable.
- Registration is compulsory for participation.
- Working lunch will be provided at Workshop
- Duly filled in registration form must reach the organizers latest by January 24th, 2019.
- Registration form can be downloaded from

www.spmvv-tbi.com

Account Details

Name of the Account Holder :	SSIIE TBI
Account Number :	174910100085868
IFSC Code :	ANDB0001749
Name of the Bank :	Andhra Bank
Branch Name :	Padmavathi Nagar, Tirupati