



DST-NSTEDB



Sponsored

**Three Day Hands on Workshop
on
Big Data Analytics & IoT**

27th to 29th April 2018



Organized

By

SSIIE-TBI

**SPMVV SOCIETY FOR INNOVATION INCUBATION AND ENTREPRENEURSHIP
Technology Business Incubator**

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

SRI PADMAVATI MAHILA VISVAVIDYALAYAM

**Accredited by NAAC with 'A' Grade
Tirupati-517502, Andhra Pradesh, India**

Website: spmvv.ac.in

About SPMVV

Sri Padmavati Mahila Visvavidyalayam (University for Women) was founded in the year 1983, with the fervent desire to train women students as better builders of the Nation and to inculcate skills of leadership in all aspects of life. The University was established under the Sri Padmavati Mahila Visvavidyalayam Act of 1983, which has come into force on the 14 of April 1983. It was started with ten faculties and 300 students and twenty staff members. Today the University has a student population nearly 4000 and an academic staff of 105 and 131 academic consultants. Currently, the University has 59 courses at the post-graduate and undergraduate level and a good component of research. The mission of the university is Emancipation of Women through acquisition of knowledge and Empowerment through skill up-gradation, involvement and participation in various occupations in the society, towards the end of establishing a progressive egalitarian society.. The University is accredited by NAAC with “A” grade in 2016.

About SPMVV Society of Innovation Incubation and Entrepreneurship 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.

SSIIE-TBI supports the “Space, Services and Knowledge” requirements of Start-Ups. SSIIE-TBI is well equipped to cater to the needs of innovators who are inclined towards research and innovation. SSIIE-TBI will offer budding entrepreneurs much needed infrastructure support and critical mentoring to turn their dream into reality.

About the Workshop

A Three Day hands on workshop on Big Data Analytics and IoT is being organized by SPMVV Society of Innovation Incubation and Entrepreneurship, Technology Business Incubator [SSIIE-TBI]. Connected objects and devices embedded in smart homes, transportation, and industrial equipment are digitizing the physical world and open unique opportunities to control and understand complex physical systems much better than ever before. However, a new set of models and analytical methods will be required when dealing with such systems, which greatly depart from traditional analytical, data-driven only methods used in Big Data applications (e.g., on transactional or social data). Hence, this hands on workshop can serve as a platform for the commercialization of university research, especially when higher education institutions are

directly involved in the promotion and management of the incubator. Fostering the development of IoT applications such as Robotics, IoT devices will have several possible industrial applications and will therefore have a strong impact on productivity and growth. The purpose of this workshop is to provide a new venue for innovators in the emerging field at the forefront of exploiting Internet of Things (IoT) with Big data to discuss algorithms, new techniques, and approaches which deal with these specific challenges.

Objectives

- To provide an insight to implement own standardized Big-Data environment.
- To provide vibrant opportunity to know better about microcontrollers and its programming.
- To enrich knowledge on sensors and data acquisition.
- To provide hands on experience on integrating sensors with microcontrollers.
- To give guidance for building own IoT enabled devices.

Theme of the Workshop

- Writing programs to microcontrollers.
- Hands on working with microcontrollers and sensors.
- Data acquisition from sensors through microcontrollers.
- Controlling electronic devices based on information from sensors.
- Using libraries to simplify programming.

And many other live examples on developing own IoT devices with Big Data.

Target Audience

Faculty, Research Scholars and PG Students

Registration Fee

- No Registration Fee.
- Participants restricted to 50.
- No TA & DA will be given to the participants.
- Registration is compulsory for participation.
- Working lunch will be provided at Workshop Venue.
- Duly filled in registration form must reach the organizers latest by April 24th, 2018.
- Registration form can be downloaded from www.spmvv.ac.in

Chief Patron

Prof. V. Durga Bhavani
Vice-Chancellor, SPMVV

Patrons

Prof. V. Uma
Rector, SPMVV

Prof. D.M. Mamatha
Registrar, SPMVV

Convenors

Prof. S. Jyothi, Secretary, SSIIE
Prof. J. Kathyayini, Executive Member, SSIIE

Co-Convenor

Mr. Y. Mallikarjuna Reddy, CEO, SSIIE-TBI

Organising Committee

Dr. I.N. Bheema Lingeswar Reddy, Incubation manager, SSIIE-TBI

Mr. P. Uma Mahesh, Scientific Assistant, SSIIE-TBI

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