State Level Student Symposium & Project Exhibition on Industrial Internet of Things IIOT - 2K17

Registration Form

Team Leader Name: ....

Project Title: ....

College Name: ....

Mobile No. : ....

Email ID: ....

Mode of Payment (Tick (✔) in the appropriate box)

DD ☐   NEFT ☐

i) DD Details:

DD Number: .... Dated on: ....

Bank: .... Amount: ....

ii) NEFT Details:

Transaction ID: .... Dated on: ....

Bank: .... Amount: ....

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Signature of Head of the Institute with seal

A/c number   : 8022 000 1001 00001

A/c Name   : Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal

Type of A/c   : Current Account

Name of the Bank   : Karnataka Bank Limited.

Branch   : Carstreet, Udupi

IFSC Code   : KARB0000802

Registration Fee/team : INR 500

Team Size   : 04 (Maximum)

ORGANISING COMMITTEE

CHIEF PATRON
His Holiness Shri Vishwavallabha Theertha Swamiji
Shri Sode Vadiraja Mutt, Udupi | President, SSVMET & Chairman Governing Council, SMVITM

PATRONS
Shri P Shrinivasa Tantry
Vice President, SSVMET, Udupi

Shri Rathnakumar
Secretary, SSVMET, Udupi

CHAIRMAN
Dr. Thirumaleshwara Bhat
Principal, SMVITM

CONVENER
Dr. Vasudeva
Head, Dept. of CS & Engg., SMVITM

FACULTY COORDINATORS
Mr. Rama Moorthy H.
Asst. Professor, Dept. of CS & Engg., SMVITM

Mr. Manoj T
Asst. Professor, Dept. of CS & Engg., SMVITM

Mr. Sachin Bhat
Asst. Professor, Dept. of E&C Engg., SMVITM

ADVISORY COMMITTEE
Mr. Devesh Rajadhyax
CEO, Cere Labs Pvt. Ltd., Mumbai.

Mr. Chandrashekar Rao Kuthyar
Lead Consultant - SangamOne Connected Services Pvt. Ltd. ;
Lead Consultant - ApnaKhata Labs Pvt Ltd.

Dr. B. Radheshyam
Head, Dept. of Civil Engg., SMVITM

Dr. Balachandra Achar H.V.
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Head, Dept. of Mechanical Engg., SMVITM

Dr. K . K. Srinivasan
Professor, Department of Chemistry, SMVITM

Dr. Ravindra H. J.
Head, Dept. of Physics, SMVITM

Dr. Lolita Priya Castelino
Head, Dept. of Mathematics, SMVITM

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CONTACT

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STATE LEVEL STUDENT SYMPOSIUM AND PROJECT EXHIBITION ON INDUSTRIAL INTERNET OF THINGS IIOT-2K17

10 NOVEMBER 2017

Organised by

Internet of Things Club
SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Bantakal - 574 115, Udupi Dist., Karnataka, INDIA

About the Institute

Established in the year 2010 under the aegis of Shri Sode Vadiraja Mutt Education Trust, Udupi, Shri Madhwa Vadiraja Institute of Technology & Management (SMVITM) has emerged as a promising institution with a distinction and has been in the pursuit of academic excellence in the field of engineering education right from its inception. The sole aim of the Institute is to promote research activities of global standards and provide quality professional education in engineering and management to rural students at affordable costs and thereby ensuring the up-lift of the underprivileged.

Though at its infancy, SMVITM has carved a niche for itself in the field of technical education in the Coastal Karnataka region. With its well qualified and motivated faculty, state-of-the-art infrastructure and distinctive learning-centric facilities, the Institute has become one of the most sought after engineering institutes in the region. Currently, more than 1600 students are pursuing BE programmes in four major disciplines at SMVITM: Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering and Mechanical Engineering.

The accomplishments of SMVITM have already garnered well deserved recognition and wide spread praise from eminent personalities across the spectrum. Late Dr. A. P. J. Abdul Kalam, Former President of India, having admired the vision and value addition to engineering education taking place at the institute, made a visit to the institute, appreciated the holistic education imparted at SMVITM and inspired the students in 2014. Shri. A. S. Kiran Kumar, Chairman, ISRO; Dr. B N Suresh, Distinguished Scientist of ISRO; Justice Dr. M. Rama Jois; Shri. M. N. Venkatachalaiah, Former Chief Justice of India and many more renowned scientists, technocrats and academicians have visited the institute to guide and motivate the students.

About the Event

Internet of Things (IoT) is a trending and buzzword, which has created lot of excitement among the corporate sector, academia, research scholars and scientific community. It is envisioned as the next big revolution in the technical landscape. It deals with the network of physical objects or "things" embedded with electronics, software, sensors and network connectivity, which enables these objects to collect and exchange data. The advantages and capabilities of IoT are multifarious.

The interconnection of devices will lead to a major paradigm shift, where the world will be heading towards an automated era, which will pave the way for new vertical and horizontal in the industry.

The Internet of Things will include around 26 billion units installed by 2020, as predicted by Gartner.

When a huge number of devices are being connected to existing network infrastructure, lot of open challenges will be thrown at technical community such as architecture and dependencies, massive scaling of devices, knowledge discovery and analytics of big data, standards for device monitoring and management, interoperability, data security and privacy etc. for the IoT platform.

To address these open challenges, we at Shri Madhwa Vadiraja Institute of Technology & Management are organizing a "**State Level Student Symposium and Project Exhibition Industrial Internet of Things (IIOT-2K17)**" **on November 10, 2017.**
Students may select the following areas for ideating and developing the projects for the competition:

- Civil Engineering Solutions (Next generation home, ERP for construction management, Smart Traffic management, Smart Inland Waterways, CRM for highway management, SCM for Construction material supply)
- Automobile industry Industrial automation (Industrial production, sale and maintenance controls, Smart cars)
- Health care units (Personal and Home health care, Hospitals, Patient monitoring systems, Baby care systems).
- Pharma solutions (Drug distribution and production network)
- Electronics and mobile industry (Smart gadgets with IOT enabled, Smart Lighting)
- Retail industry (Smart cart)
- Scientific products (Smart Meter, Smart Thermometer)
- Agro Industry and equipment (Connected tractor, smart irrigation system)
- Education (Students progress and attendance monitoring system, Smart Lab)
- Agriculture solutions (Smart water and fertilizer feeding system)
- Auto Water supply and control systems for City
- Vehicle monitoring system (Remote speed control, real time location and security)
- Logistics (DHL, Blue dart)
- Defence Industry (Smart surveillance, Smart fencing, Smart drones, IOT aided robotics in military environment)
- Aviation Industry (Smart baggage tracking, Smart ATC, Smart ground attendant, Smart passenger preference)

Guidelines for Project Submission

- Each team may comprise minimum one member and a maximum of four members. Interdisciplinary teams comprising members from different branches are also allowed.
- Only working project models are allowed at the competition. Poster or paper presentation will not be allowed.
- Each team must submit the general electrical and networking infrastructure required for their project demonstration along with the registration form.
- The project report has to be prepared in MS Word document and must reach the given contact email id on or before last date of registration.

Last Date for Registration: 18 October 2017

A Glimpse of IOT 2K15

The Internet of Things (IOT) refers to the networking of physical objects through the use of embedded sensors, actuators, and other devices that can collect or transmit information about the objects.

Applications based on this emerging technology are increasingly being introduced in a number industries such as healthcare, smart home and office solutions, automobile, pharmaceuticals, electronic gadgets, retail, industrial automation, smart scientific products, education, agriculture, traffic management, gas and water supply system etc.

The Multifunctional Smart Fitness Band, explores the potential of the technology. The device offers a wide range of applications in the healthcare sector and is capable of measuring and monitoring several vital physical parameters such as heart rate, temperature, energy burnt etc.

A Glimpse of IIOT 2K16

Passing on the good work initiated from the Inter-Department competition held during August, 2015, "State Level student symposium cum project exhibition, IIOT 2K16" was held in the month of November 2016. More than 30 teams from all over Karnataka participated in this event. Varieties of projects were displayed and many exciting prizes were distributed.

Many of the projects were applicable in all aspects of daily life. Models of Process Automation, Agri Copter, Automated Paddy Trans-planter to support the farmers, Automation Dry-Wet Waste collection to support Swach Bharath Abhiyan, were few from the projects exhibited in this forum.

The driving philosophy behind the IIOT 2K16 was to motivate the young minds to work together and exhibit their real talents, also to think towards building some smarter appliances using the trending technology of *Internet of Things* to help the larger community to get an appropriate solution to their real life issues.

Registration Details:

- **Participants are requested to fill in the registration form and pay the prescribed registration fee either through a Demand Draft in favour of Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal payable at Udupi or through NEFT transaction.**
- **The hardcopy of the filled-in registration form as well as the DD must be sent to the given contact address by post.**
- **Alternatively, the scanned copy of the filled-in registration form along with the NEFT transaction receipt can be emailed to: iiotsmvitm@sode-edu.in**