State Level Student Symposium /
Project Exhibition on
Industrial Internet of Things
IIOT - 2K16

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: .....

Signature of Head of the Institute with seal

A/c number	: 0822500100566601
A/c Name	: ISTE Chapter
Type of A/c	: Savings Bank
Name of the Bank	: Karnataka Bank Ltd.
Branch	: Bantakal
IFS Code	: KARB0000082
Registration Fee per Team	: INR 500
Team Size	: 04 (Maximum)

ORGANISING COMMITTEE

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

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

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

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STATE LEVEL STUDENT SYMPOSIUM / PROJECT EXHIBITION ON INDUSTRIAL INTERNET OF THINGS IIOT-2K16

04 NOVEMBER 2016

Organised by

प्रज्ञा प्रतिष्ठा

Internet of Things Club
SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT

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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.

Admiring the very objective of SMVITM, Bantakal to provide holistic, value based education in the field of engineering to the students of rural belt at affordable costs, Former President of India, Bharat Ratna Dr. A P J Abdul Kalam made a prestigious visit on 02 April 2014 and interacted with the students, which is really a great honor to this budding institution.

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 is organizing a "**State Level Student Symposium / Project Exhibition Industrial Internet of Things (IIOT-2k16)" on November 04, 2016.**

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)
- Power and Energy Sector (Smart grid, Smart solar systems)
- Textile and Fashion Industry (Smart clothing, Smart designing system, Wardrobe management system, Apparel management system)

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: 15 October 2016

A Glimpse of IOT 2015

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. The data harvested from such devices can be analyzed to optimize products, services, and operations by automation.

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. For example, physicians can use the information collected from wireless sensors in their patient's homes to improve their management of chronic diseases through continuous monitoring rather than periodic testing. By adopting IOT technology, physicians could reduce their treatment costs up to 20 percent benefiting the patients in terms of reducing the financial burden and can contribute effectively to the saving of lives.

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. It not only measures such vital physical parameters but also keeps the record of the same and can even be shared with doctors in emergency cases. During the critical stages, as determined by the device, not only will it automatically send messages to emergency numbers but share the exact location of the person. When developed fully, the device can help solve the problems of patients suffering from diseases which require continuous monitoring.

A few more projects – which if effectively developed, could bring down the cost, time and human effort – are being worked on by the IIOT teams of SMVITM, Bantakal and in all likelihood they will come up with gadgets and devices that harness the technology to its fullest. This budding institute is taking a lead role in disseminating IOT technology in the coastal region.

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 ISTE Chapter 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: iiot2k16.smvitm@gmail.com**