

Objectives of the Course

Internet of Things (IoT) is a wide and rapidly developing area with expected strong and growing implications for the industry. Numerous IoT research and application projects have been done by universities or in joint industry-university consortia in recent years. However an important question is on value creation for industry. IoT applications in the sense of this industry workshop are solutions using IoT technologies to improve industrial manufacturing processes, enable new and efficient ways to do operate production plants, create new service or supervision means for industrial installations, offer an optimized infrastructure, reduce operational cost or improve human safety in industrial areas. From an industry point of view value creation from IoT applications and sustainability are essential. How these problems will be addressed and solved will influence the use of IoT technologies in the industry, on a larger scale, in the coming years. The workshops intends to bring together experts from around the world to discuss and stimulate ideas. The major contents of the program are:

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Introduction to Embedded IOT System
Developer Suit Overview, OS installation and Architecture
Introduction to Python and I-o Interfacing
Interfacing sensors and motor
.....
Introduction to IOT
Impact of IOT
Designing web page Basic of HTML and PHP
Controlling Devices and Reading input Status from sensors using webpage
Creating text to speech Using python
Creating applications with weather updates
.....
Introduction to API and web services
Designing SMS API and security OTP app
Matlab simulink & interfacing sensors
Camera Interfacing using sensors
Basic SMTP protocol and Mail server and
Sending Mail (Security application) mail based
Automation

Course Coordinator

Dr. Vijayakumar K obtained his B.E. from Coimbatore Institute of Technology, Coimbatore. He obtained his M.Tech. and Ph.D. from National Institute of Technology, Tiruchirappalli, in the year 2009 and 2012 respectively. Subsequently, He was a post-doctoral research fellow in Nanyang Technological University, Singapore and Assistant Professor in Malaviya National Institute of Technology, Jaipur. He was also visiting professor at University of Saskatchewan, Canada. Presently, He is a Faculty at IIITDM Kancheepuram, Chennai.

AICTE Training & Learning Academy (ATAL)

The objective of the academy is to train Faculties, students and research scholars in recent technological developments. In addition, the training will be mandatory for new teachers from 2019 and it will be necessary for existing teachers and assistant teachers while applying for promotions. AICTE is statutory body established in November 1945. It comes under aegis of Department of Higher Education, Ministry of Human Resources Development. It is national-level council for technical education responsible for planning and coordination of technical education management of education system in the country. It is headquartered in New Delhi.

AICTE sponsored Short Term Course (STC) on Internet of Things: Concepts and Implementation

15th–19th November, 2019

Sponsored By



<https://www.youtube.com/watch?v=ujtUyW30P60>

Organized by

**Indian Institute of Information Technology
Design and Manufacturing, Kancheepuram**

Institute of National Importance

(under Ministry of HRD, Govt. of India)

Chennai- 600127.

About IIITDM Kancheepuram, Chennai

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Human Resource Development, Government of India to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantage of Indian products in global markets. The institute is located on a 51 acre campus on the outskirts of Chennai, off the Vandalur-Kelambakkam road. The campus houses the academic block, the administrative block, lecture hall complex and laboratory block. The Institute is presently offering B.Tech programmes in Computer Engineering, Electronics and Communication Engineering (Design & Manufacturing) and Mechanical Engineering (Design & Manufacturing), five Dual Degree programmes leading to B.Tech and M.Tech Degrees, M.Des in Electronic Systems Design, Communication Systems Design, Mechanical Systems Design and inter-disciplinary Ph.D programmes in core and applied areas of engineering. From the academic year 2016, the Institute has introduced the B.Tech Mechanical (Smart Manufacturing). The faculty members of the Institute are also involved in sponsored and consultancy research projects from reputed industries and government organizations.

The curricula for all the programs have been framed after extensive deliberations and discussions with IITs, IISc and other reputed Institute faculty members and industry stakeholders. The programmes are aimed at providing solutions to current technological challenges in wide domains like robotics, home entertainment, telecommunication, automotive systems, etc. Design engineers and researchers passing out from IIITDM Kancheepuram will find scope and relevance in IT and IT enabled product companies, in particular analog and digital electronics IC companies, embedded systems players, automotive design, consumer product design and manufacturing and knowledge/service based industries. With mastery of domain specific design, engineering skills and required managerial expertise, our graduates can entrepreneur organizations involved in the design and manufacture of commercially successful electronic or mechanical products.

Tourist Attractions

The institute is located on the outskirts of Chennai, off the Vandalur-Kelambakkamroad. Chennai is very well connected by bus services, suburban train system and Metro rail.

Shopping and Leisure

You might want to enjoy an evening at the beach @ Besant Nagar

Or maybe catch the sunrise along the longest natural beach in India @ Marina

An exquisite collection of Indian arts @ Poompuhar

Explore the world of handicrafts @ Victoria Technical Institute
Want to get lost in the Malls of Chennai heaving with people?

Take a cab to:

Marina Mall, Chennai City Center, Spencers

Visit and learn about the many rare, endangered species @ The VandalurZoo

A one of its kind park for the reptiles: Crocodile Park

Culture

Visit the world famous heritage town on the beach: Mahabalipuram

Like to see a glimpse of the housing, culture in the southern states? Try DakshinaChitra

Religious

Kapaleeswarar Temple is famous for its association with Gnanasambandar, a Hindu saint.

Parthasarathy temple is famous for being one of the holy temples of Vaishavism and also an architectural beauty.

Registration

The participants are requested to register online by using the following link: [Online Form for registration](#)

Last date for Registration is 5th November 2019.

The registration fee includes course materials, certificate, refreshment and Lunch. Participants are requested to bring their laptop for hands on sessions, If any. The confirmation of participation would be sent through email.

Accommodation/TA/DA

A few twin shared accommodation is available in the Guest Hostels of the IIITDM for outstation participants with an advance request on a first come first serve basis and nominal chargeable basis. The participant will not be paid any travelling and dearness allowance.

Target Audience

The program is targeted towards Ph.D. scholars, faculty members and UG/PG students from academic institutes.

Organizing Committee

Patron

Prof. Banshidhar Majhi, Director

Coordinator

Dr. Vijayakumar K; vijayakumar@iiitdm.ac.in; 9549659069

AICTE sponsored Short Term Course on

Internet of Things: Concepts and Implementation (Hands On)

15th – 19th November, 2019

Registration Form

Full Name: _____

Designation: _____

Organization: _____

Qualification: _____

Specialization: _____

Mailing Address: _____

Pin Code: _____ Phone(M): : _____

Email: _____

Accommodation required? Yes / No

Details of Registration fee (Refundable at the end of course)

Name of Bank & branch: _____

DD No.: _____ Date: _____

For Rs.: _____ in favour of The Registrar, IIITDM

Kancheepuram payable at Chennai, is enclosed.

Date: _____

Signature of Participant