

About the workshop:

The Internet of Things (IoT) is 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 Internet of Things allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration between the physical world and computer-based systems, and resulting in improved efficiency, accuracy and economic benefit. The applications areas of the IoT are numerous, including: smart homes, smart cities and industrial automation. IoT systems often provide great benefits to numerous industries and society as a whole.

This one week FDP on "Internet of things (IoT) and its applications" is designed to cover theoretical aspects of IoT, its applications and also intended to give hands on experience using the related hardware and software. This is a multidisciplinary activity and hence is open to academic and Industry representatives with varied background.

Objectives of the program:

- Introduction and description of core concepts of IoT, role and scope of smart sensors for insuring convergence of Technologies and multidisciplinary engineering practices, Machine Intelligence Quotient.
- Understanding the need for migrating towards software defined networks and integrating time series data from wireless sensor networks.
- Hardware platforms and operating systems commonly used in IoT systems.
- Big data predictive analytics and transformation from IT to IOT.
- Awareness of IoT related cyber legislation.

Course contents:

- Smart things network and communication: architectures, Operating systems for IoT, Services and protocols.
- Smart things: privacy, security and identification.
- Internet of Things systems and applications.
- User-centric solutions to define IoT collaborative process.
- Innovative IoT Solutions for handicapped persons.
- Smart things and RFID/NFC communications.
- Intelligent systems based on connected vehicles.
- Smart things networks for real world data management.
- Practical experiences in Smart cities, large-scale IoT systems.
- Opportunistic IoT, based on opportunistic networking techniques.

Outcome of the program:

After completing the course the participants will understand:

- ✓ Effective usage of IoT deployment for different sectors.
- ✓ Developing and modifying code for various sensor based applications using wireless sensor modules and working with variety of modules like environmental and security module.
- ✓ Exploring the features of predictive data analytics for IoT applications.
- ✓ Modular hands on training will enable participants to conduct IoT related activities in academic environment and initiate new projects in Industrial sectors.

Participants will be encouraged to orient themselves to specific focused areas of their interest with hands on training.

Who can participate?

Faculty/ Research Scholar from Electronics and Communication Engineering, Computer Science, Information Science, Electrical and Electronics, Electronics and Instrumentation Technology, Telecommunication Engineering and Master of Computer Applications disciplines.

Registration and fee :

Registration fee is ₹ 500.00 per participant payable by Demand Draft in favour of the Principal, SJCE, Mysuru. Filled registration form in all aspects shall be sent to the program coordinator along with Demand Draft.

Accommodation for outstation participants is available at nominal charge with prior intimation [Limited].

About SJCE:

Sri Jayachamarajendra College of Engineering, conceived in 1963, is the dream child of Jagadguru Dr. Sri Shivarathri Rajendra Mahaswamigalavaru, the 23rd pontiff of Sri Suttur Mutt. It comes under the aegis of JSS Mahavidyapeetha, which is the primary institution of many such institutions. The college was officially inaugurated by the esteemed founder of Manipal Institutes, Dr. T.M.A.Pai, the then chairman of the academy of education, Manipal, Mysore State.

The Institution serves as one of the major landmarks of the western part of Mysuru, with its sprawling 117 acres of campus and several recognizable buildings. As one of the leading institutes in India, SJCE has been recognized under

the Technical Education Quality Improvement Programme (TEQIP). Acknowledging the state of the art infrastructural facilities, faculties and expertise, that have been the hallmarks of the college, the Visvesvaraya Technological University has conferred the Autonomous status to the college from the year 2007-08.

The Department of E&C Engineering was pioneered in 1970. It has a high ranking in Karnataka state. Besides teaching, the department is active in research and collaboration projects. A good number of projects in collaboration with reputed organization from India and abroad are going on and a few more are on the anvil. The overall academic track record of E&CE department is outstanding.

About TEQIP:

National Project Implementation Unit (NPIU) established by Ministry of Human Resource Development, Government of India, sought financial assistance from World Bank for systemic transformation of the technical education system in India. World Bank showed its willingness to assist the Government of India to launch a Technical Education Quality Improvement Programme (TEQIP). SJCE successfully completed TEQIP Phase I programme as LEAD institute. It is a great pleasure that SJCE has been awarded TEQIP Phase II funding of ₹ 12.5 Crores. The main objective of this funding is to scale up post graduate education, demand driven R & D and innovations. SJCE has always been a leader and is committed to fulfil the goals. The workshop of this kind is an attempt to achieve the desired targets.

The workshop is organised as a part of the centenary celebrations of Lingaikya Jagadguru, Dr. Shree Shivarathri Rajendra Mahaswamigalavaru, the founder of JSS Mahavidyapeetha, Mysuru.

Programme Coordinators

Dr. M. N. Shanmukha Swamy

Professor and Head,
Department of E&CE, SJCE, Mysuru.
Phone: 9980720199
Email: mnsjce@gmail.com

Dr. Shankaraiah

Professor,
Department of E&CE, SJCE, Mysuru.
Phone: 9482229678
Email: shankarsjce@gmail.com

Dr. U. B. Mahadevaswamy

Associate Professor,
Department of E&CE, SJCE, Mysuru.
Phone: 9886452598
Email: ubms_sjce@yahoo.co.in

Contact Details

Puneeth .K.M.

Department of E&CE, SJCE, Mysuru.
Phone: 9591330521
Email: puneethkmd90@gmail.com

Yashwanth .S.D.

Department of E&CE, SJCE, Mysuru.
Phone: 9738006421
Email: talktoyashu@gmail.com

Web Site: www.sjce.ac.in

JSS Mahavidyapeetha



Sri Jayachamarajendra College of Engineering
(An Autonomous Institution under VTU, Belagavi),
Mysuru-570006

On the occasion of Birth Centenary Celebrations of
His Holiness

Jagadguru Dr. Shree Shivarathri Rajendra Mahaswamiji

TEQIP – II Initiative FDP on
“Internet of Things (IoT) and Its
Applications”
August 8th, 2016 to August 13th, 2016



Venue

Conference Hall, MBA Block,
JSS TI Campus, SJCE, Mysuru

Organised by

Department of
Electronics and Communication Engineering,
Sri Jayachamarajendra College of Engineering
JSS TI Campus, Mysuru-570006

JSS Mahavidyapeetha

Sri Jayachamarajendra College of Engineering

(An autonomous under VTU, Balagavi)

**Department of Electronics and Communication Engineering,
JSS Technical Institute Campus, Mysuru-670006**

TEQIP – II Initiative One Week Faculty Development Programme On

“INTERNET OF THINGS (IOT) AND ITS APPLICATIONS”

August 8th, 2016 to August 13th, 2016

REGISTRATION FORM

Name:Gender [M/F]:

Qualification:

Designation:

Organization:

Mobile Number:

Email Id:

Mailing Address:

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Registration Fee details:

Demand Draft No. : Date:

Bank:

Signature
(Participant)

Signature with Seal
(Head of the Institution)