



BHARTIA VIDYA BHAVAN'S
SARDAR PATEL COLLEGE OF ENGINEERING
(Government Aided Autonomous Institute)



Mechanical Engineering Department of SPCE

Organizes One Day Workshop on



Internet of Things (IOT)

06th May 2016

Under Technical Education Quality Improvement Program (TEQIP) in collaboration with Kratos Engineering and IT Solutions Pvt. Ltd.

Organizing Body

Dr. P. H. Sawant	Principal
Dr. M. M. Murudi	Vice Principal
Dr. Rajesh Buktar	Head of Mechanical Engineering Department
Dr. Kiran S. Bhole	Coordinator
Prof. Sharad Valvi	Co-Coordinator
Prof. Haseen Shaikh	Co-Coordinator



ADDRESS FOR CORRESPONDENCE :

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SARDAR PATEL COLLEGE OF ENGINEERING

Sardar Patel College of Engineering (SPCE) under the management of the Bhartiya Vidya Bhavan, was founded by Kulpati Dr. K. M. Munshi. It was established to meet the growing demand for engineering talent.

The foundation stone of the college was laid on 17th September 1961 by Shri. Y. B. Chavan (the then Chief Minister of Maharashtra who later became the Defence Minister of India.)

The college was inaugurated by the first Prime Minister of Independent India, Pandit Jawaharlal Nehru in 1962. The college is dedicated to Sardar Vallabhbhai Patel, an eminent nation builder of independent India.

The college is autonomous and affiliated to the University of Mumbai for the full-time degree, post graduate, and research programs. The institute has set high standards for aspiring engineering students and also meets the need of quality education in the challenging world of business.

Over the last 50 years the college has gained an excellent reputation in the field of Technical Education.

SPCE is one of the few colleges that have received Grade 'A+' rating for its aided courses from the Govt. of Maharashtra which certifies the spirit of excellence that the institute has symbolized and always practiced. Institute celebrated its golden jubilee in the year 2012.

KRATOS ENGINEERING AND IT SOLUTIONS PVT. LTD.

Kratos Engineering is a pan India supplier of Advanced Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Computer Aided Engineering (CAE) Solutions and Product Lifecycle Management (PLM). Kratos engineering pride in providing Integrated CAD / CAM / CAE / PLM Systems that enable customers to design & develop innovative products. Kratos engineering also focus on helping customers design better products, faster.

Kratos engineering has been recently appointed as national business partner by prominent engineering software OEMS like PTC, Delcam, Moldex and CT Core Technologies Germany & MSC Software Corporation USA.

WHO SHOULD ATTEND THE COURSE

This course is useful for engineers of different disciplines aspiring towards development of IoT enabled devices for various applications ranging from engineering, biomedical, agricultural, social network etc. The course will be most beneficial for:

- Engineering graduates and post-graduates (B.E./B. Tech./M.E./M. Tech. in Mechanical, Production, Automobile, Aerospace, Bio-medical, Electrical, Electronics, Chemical Engineering)
- Professionals in Design, Manufacturing industry
- Faculty members from academic and research institutions
- Final year B.E. students who are aspiring for higher education, technology development, startups

WORKSHOP CONTENTS

- Basics of IoT
- Trends and challenges in IoT
- Case Studies on IoT
- Live Demo of Thingworx - Application Development Platform
- The future technology advancements

ABOUT IOT WORKSHOP

Why the workshop on IoT?

The **Internet of Things (IoT)** is the network of physical objects-devices, vehicles, buildings and other items embedded with electronics, software, sensors, and network connectivity that enables these objects to collect and exchange data. The IoT allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit; when IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, smart homes, intelligent transportation and smart cities. Each thing is uniquely identifiable through its embedded computing system but is able to interoperate within the existing Internet infrastructure. Experts estimate that the IoT will consist of almost 50 billion objects by 2020. Looking at this wide scope of IoT, it has become essential to gain knowledge in this regard and further to introduce it into the main frame of the academics. With this thought SPCE started its initiatives to have the workshop on IoT.

Objectives

This workshop is designed to help the Internet Society community navigate the dialogue surrounding the IoT in light of the competing predictions about its promises and perils. It provides a high-level overview of the basics of IoT and some of the key issues and questions that this technology raises from the perspective of the Internet Society and the core values for its promotion. Workshop also encompasses some of the unique aspects of the IoT that make this a transformational technology for the Internet.

Scope

The IoT holds significant promise for delivering social and economic benefits to emerging and developing economies. This includes areas such as sustainable agriculture, water quality and use, healthcare, industrialization, and environmental management, among others. Considering these wide scope of IoT, the workshop is designed to discuss various case studies of IoT applications. The workshop also covers the live demo on application development platform for better understanding of the technology.

WORKSHOP FEES

Registration Fee

Student	Faculty (Non-TEQIP colleges)	Faculty (TEQIP colleges)	Industry /Sponsored
Rs. 100	Rs. 200	Rs. 500	Rs. 500

The registration fees includes Course Material, Media DVD and Breakfast/Tea-snacks/Working Lunch.

Registration fee should be paid in the form of cheque/DD drawn in the favor of "The Principal, SPCE".

CONTACT DETAILS FOR MORE INFORMATION

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PATRONS

Dr. Sessa Iyer	Chairman, BOG- Sardar Patel College of Engineering
Dr. P. H. Sawant	Principal, Sardar Patel College of Engineering

Registration Form

ONE DAY WORKSHOP under TEQIP

On

Internet of Things

06th May, 2016

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(Government Aided Autonomous Institution)

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Name (in Block Letter): (Mr./Mrs./Ms./Dr) _____

Designation: _____

Educational Qualification: _____ Experience: _____

Organization: _____

Mailing Address: _____

Telephone: Office: _____ Residence: _____ Mobile: _____

Email: _____

Cheque/DD No. and date: _____

Registration fees (amount paid): _____

Signature of Candidate: _____

Seal and Signature of Sponsoring Authority

Note: For registration pay the registration fees and send the scanned copy of filled registration form to kiran_bhole@spce.ac.in