

**A SIX DAY NATIONAL LEVEL
WORKSHOP
On
INTERNET OF THINGS**

**27th-29th December 2018
&
03rd-05th January 2019
In Association with APSSDC
(Andhra Pradesh State Skill Development Corporation)**

REGISTRATION FORM

1. Name :
2. Designation :
3. Organization :
4. Mailing Address :
5. Ph. No. :
6. Email :
7. Whether accommodation is required:
YES/NO
8. Amount :

(Signature of Applicant)

I recommend his/her participation in the course

**Signature
(Head of the Institute with seal)**

CHIEF PATRON

Sri Kallam Haranadha Reddy - Chairman

PATRONS

Sri K. Mohan Reddy - Secretary
Dr.M. Umasankara Reddy – Director
Dr.B.S.B.Reddy, Principal, KHIT

CONVENER

Mr.K.Kranthi Kumar, Asst. Professor,
Department of CSE

ADVISORY COMMITTEE

Dr. K. Venkata Subba Reddy, HOD, CSE
Dr.B.Tarakeswara Rao, Prof., CSE
Dr.Md.Umarkhan, Prof., CSE
Prof.B. Satyanarayana Reddy, CSE
Mr.Samsonu Ckukka, Assoc.Prof,CSE
Mr.B.Srikanth, Assoc.Professor, CSE
Mr.N.Md.Jubair Basha,Assoc.Prof, CSE
Mr.P.Lakshmikanth, Assoc.Prof, CSE
Mr.A.Sandeep Kumar, Asst.Prof, CSE
Mr.B.Ramakrishna, Asst.Professor, CSE
Mrs.Nagalakshmi.P, Asst.Prof, CSE
Ms. Sri Lakshmi Parvathi, Asst.Prof,
Mr.S.Krishna reddy, Asst.Professor, CSE
Mrs. Lavanya.P, Asst.Prof, CSE
Mr.S.Srinivasa Rao, Asst.Professor
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Ms.P.Umarani, Asst.Professor, CSE
Ms.K.Naga Mallika, Asst.Prof, CSE
Mr.S.V.Reddy.P, Asst.Professor, CSE
Mr.M.Prasad Rao, Asst.Professor, CSE
Mrs.A.Sunitha, Asst.Professor,CSE

For registration & queries, contact:

Mr.K.Kranthi Kumar
Assistant Professor, CSE
Mobile: 9985372152
E-mail : hod_cse@khitguntur.ac.in

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Organized by

**Department of Computer
Science and Engineering**

**Kallam Haranadhareddy
Institute of Technology**



**(Approved by AICTE, New Delhi &
Affiliated to JNTUK, Kakinada)
Accredited by NBA and NAAC
ISO: 9001-2015 Certified Institution
NH-5, Chowdavaram, GUNTUR-522019
Mobile: 94910 73337
E-mail: kaesguntur@gmail.com;
www.khitguntur.ac.in**

Introduction:

The Internet of things is the network of devices, vehicles, and home appliances that contain electronics, software, actuators, and connectivity which allows these things to connect, interact and exchange data.

Objectives:

The seminar is aimed at providing an opportunity for participants to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society. This program serves as a platform for research scholars, faculty, engineers and students to interact on cutting edge technologies in IoT.

IoT Phase-1 Syllabus:

Day 1: Introduction to IoT, Introduction to Embedded Systems, Introduction to 8051 family, Introduction to Keil- IDE, Embedded C Programming, Proteus software, LED based Projects.

Day 2: Interfacing Button, seven segment display, Motors with 8051, LCD Interfacing Arduino Programming, Introduction to Digital Pins & Inputs-LED Based Projects

Day 3: Interfacing of switches with Arduino & LCD Based Projects, Interfacing of Seven segment Display with Arduino, Interfacing of sensors with Arduino-LDR, Humidity sensor, Temperature sensor, Things Speak Cloud

IoT Phase-2 Syllabus:

Day 4: Linux Basics, Login Linux File system, Navigating the File system, Text Editors, Accessing Files, Permissions, Processes, Linux Graphic User Interface, Raspberry Pi Board, Raspberry Pi Processor, Raspberry Pi vs. Arduino, Operating System Benefits, Processes

Day 5: Raspberry Pi IoT, Raspberry Pi Setup, Raspberry Pi Configuration & Over clocking General Purpose IO Pins, Protocol Pins, GPIO Access, General Purpose IO Pins, Pulse Width Modulation Network, Secure Shell, SSH Client/Server, SSH Server, Network Programs, Internet Protocols, IP Addresses & Domain Names, Client/Server

Day 6: Sockets, Sending Data, Interfacing sensors with raspberry Pi Amazon web services, introduction Using Services, Amazon web services-Controlling of hardware through cloud, AWS-IoT Badge

About the College

Kallam Haranadhareddy Institute of Technology (KHIT) was established by Kallam Academy of Educational Society in the year 2010. It has come up in an area of 10 acres with a built-up area of more than 2 lakh sq. ft. with lush green environment with an aim to impart quality education to students in Engineering & Technology. The college registered a phenomenal growth and today it stands as a premier institution offering engineering education at UG and PG levels.

In 2018 it had become the youngest college to have been accredited by the NBA and NAAC.

The college has a rich tradition of soaring high, with academic excellence & overall personal growth of students. This is achieved by providing excellent academic environment and infrastructure with the help of dedicated, highly qualified and experienced team of faculty members. The Institute offers B.Tech in ECE, CSE, EEE, CE and ME. and M.Tech in CSE, ME and CE.

About CSE Department:

The Department of Computer Science and Engineering started B.Tech course in 2010 and M.Tech (CSE) in 2012. The B. Tech program is accredited by NBA in 2018.

The department has well experienced faculty with right mix of specializations and highly skilled and motivated technicians to provide quality education to the students. A well established Research and Development laboratory with 35 high end computer systems.

Target Audience:

III/IV CSE/ECE Engineering Students

Resource Persons:

Subject Experts from APSSDC

Registration and Fee Particulars for Participants:

UG/PG Students: Phase & Phase-2 Rs: 500/-

Last date for submission of Application: 25-12-2018