Introduction

The new technology and concepts of Internet of Things (IoT) is gaining a lot of interest in the recent years. This technology aims at improving the quality and productivity in various domains. IoT is about the use of smart devices for various applications. IoT has proven its significance in many domains and successfully used in the various fields of Civil Engineering.

The relevance of IoT in the present day is significant and continues to grow as more industries such as Civil Engineering and Construction sectors embrace its capabilities. IoT plays a crucial role in the development of Smart Cities and Infrastructure connected with sensors and systems enable efficient traffic management, waste management, energy distribution, public safety, and improved urban planning. IoT contributes to sustainable, livable cities that offer enhanced quality of life for residents. IoT can contribute to Environmental Sustainability efforts.

Course Content

- IoT and its scope for various applications in Civil Engineering
- IoT Applications in Structural Health Monitoring
- IoT applications in Smart Cities
- IoT Applications in Construction site Monitoring
- IoT applications in Environmental and Water Resources Engineering
- IoT applications in Geotechnical Engineering
- IoT applications in Traffic Management
- IoT applications in Energy Management
- IoT & Its applications in various Engineering domains

Objectives

The Objectives of the FDP are;

- It will be focused on exposing the participants on Sensors, actuators, IoT and its applications in Civil Engineering.
- It will familiarize the participants on various popular IoT platforms and tools available in the market suitable for Civil Engineering.
- It will train the participants in various modern techniques such as analytics and visualization tools relevant to Civil Engineering.

Who can attend?

This program is open to teaching faculty of constituent & affiliated colleges of JNTUA.

How to Register for FDP?

- No Registration Fee
- Participants will be selected on First-Come-First-Serve basis.
- Number of registrations limited to 30 members
- Participants are advised to bring their own laptops for practice.
- Accommodation will be provided for outstation participants on prior request.
- Registration link:
  https://forms.gle/fXFKBTGY4gNEUEMs9

Five Days - Faculty Development Programme

on

IoT & IT'S APPLICATIONS IN CIVIL ENGINEERING

28th August 2023 to 1st September 2023

Jointly Organized by

Department of Civil Engineering
Sri Venkateswara College of Engineering & Technology (Autonomous)
R V S Nagar, Chittoor District
Andhra Pradesh, India-517127
www.svcetedu.org

and

Faculty Development Cell
Jawaharlal Nehru Technological University, Anantapur,
Anantapuramu-515002,
Andhra Pradesh, India

In association
with

ISTE, A.P. Section

About the College

Sri Venkateswara College of Engineering & Technology (Autonomous), Chittoor, established in the year 1998, enjoys the reputation as one of the best engineering colleges in Andhra Pradesh, Founded by the far-sighted eminent educationist and philanthropist, Dr. Ravuri Venkataswamy under the auspice Srinivasa Educational academy, Chittoor, with a purpose of imparting technical education to the students. The mission of the institute is twofold to educate and prepare students as dynamic, competent, valued and knowledgeable professionals who shall lead the nation in reaching the forefront of leadership in the field of engineering and technology. The Institution is located on National Highway (NH-18) in an area of 65 acres of picturesque landscape at R.V.S. Nagar, Chittoor, Andhra Pradesh. SVCET (A) is self-financing autonomous professional college affiliated to JNTU Anantapur, recognized by AICTE and accredited under Tier-I by NBA, New Delhi, and with A$^+$ grade, by NAAC, Bengaluru. The institution is ISO 9001:2001 certified. The college has attained autonomous status from the academic year 2011-12 onwards.

CAMPUS has commenced academic programs in B.Tech (Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Electrical and Electronic Engineering, Electronics and Communication Engineering, Information Technology, CSE (AI), Computer Science and Business System, CSE (Cyber Security), CSE (DS), CSE (AI&ML), CSE (IoT) and ECE (Bio Medical Engineering)) and M.Tech (Structural Engineering) from the academic session 2012-13. The Institute has been placed in top 198th position in NIRF Ranking System in 2022.

About the Department

The Civil Engineering Department was established in 2008, and is fully established in terms of faculty members and state-of-art laboratory facilities. The department is offering B. Tech Program in Civil Engineering with annual intake of 120, M.Tech (Structural Engineering) Program with annual intake of 18 and also offers Diploma in Civil Engineering as Second shift.

The Department has very good team of qualified faculty members with rich experience and expertise in their respective areas of specializations.

Resource Persons

Faculty from reputed technical Institutions are the resource persons for the programme and will deliver the lectures.

Dr. S. T. G. Raghukanth
Professor, CE Dept., IIT Madras

Dr. G. Appa Rao
Professor, CE Dept., IIT Madras

Dr. A. Murali Krishna
Professor, CE Dept., IIT Tirupati

Dr. C. Sashidhar,
Professor & Registrar, JNTUA, Anantapuramu

Dr. I. V. Ramana Reddy
Professor, CE Dept., SV University, Tirupati

Dr. M. Uma Shankar
Professor, VIT University, Vellore

Dr. Amarendra Kumar Sandra,
Professor, CE Dept., RGUKT, RK Valley

Dr. N. Venkata Ramana
Professor, Visvesvaraya Technological University, Belagavi, Karnataka

Dr. A. Rama Chandra Murthy
Principal Scientist, SERC (CSIR), Chennai

Dr. V. Srinivas
Principal Scientist, SERC (CSIR), Chennai

Chief Patron
Prof. G. Ranga Janardhana
Hon'ble Vice-Chancellor, JNTUA

Patrons
Prof. M. Vijaya Kumar,
Rector, JNTUA
Prof. C. Sashidhar,
Registrar, JNTUA

Chair Persons
Dr. R. Venkataswamy,
Chairman, SVCET, Chittoor
Mr. R. Srinivas
Vice Chairman, SVCET, Chittoor

Program Director
Prof. B. Eswara Reddy
Director, Faculty Development Cell, JNTUA.
Secretary, ISTE AP Section

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Dr. M. Mohan Babu
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