

### Registration form:

Name: .....

Designation/ Roll No.: .....

Department: .....

Institution (Full Address):  
.....  
.....

Qualifications: .....

Experience in years: Teaching: .....

Research: .....

Age: ..... Gender: Male/ Female

Mobile No. ....

Email:.....

Signature of the  
Candidate

Signature of the  
Head of the Institution  
with seal

### Note:

- Registration is free and includes participation certificate.
- Attendance is mandatory for all the sessions to get the participation certificate.
- Registration Link:  
<https://forms.gle/QsR71PLSbff3mfcu7>

### Chief Patron:

**Dr. C. Nageswara Rao**, President, Siddhartha Academy of General & Technical Education (SAGTE)

### Patron:

**Sri. P. Lakshmana Rao**, Secretary, (SAGTE)

**Sri. S. Venkateswara Rao**, Treasurer, (SAGTE)

**Sri. M. Rajayya**, Vice-President, (SAGTE)

### Convener:

**Dr. A.V. Ratna Prasad**, Principal

### Co-Convener:

**Dr. N. Vijaya Sai**, Professor & Head

### Co-Ordinator:

**Dr. V. L. Krishnan**, Associate Professor

### Co-Coordinator:

**Mrs. B. Supraja Reddy**, Assistant Professor

### Target Audience

Faculty members, UG & PG Students of Mechanical Engineering discipline from Engineering Colleges in the region.

The seminar is being organized in offline mode.

### Contact:

**Mrs. B. Supraja Reddy**  
([supraja@vrsiddhartha.ac.in](mailto:supraja@vrsiddhartha.ac.in))

One day Seminar on

# INDUSTRIAL INTERNET OF THINGS IMPLEMENTATION: PRESENT STATUS & CHALLENGES

19<sup>th</sup> (Saturday) March, 2022



Under AICTE Margdarshan

Organized by:

Department of **Mechanical Engineering**



**VELAGAPUDI RAMAKRISHNA  
SIDDHARTHA ENGINEERING COLLEGE**  
(AUTONOMOUS)

(Sponsored by Siddhartha Academy of General & Technical Education)

[www.vrsiddhartha.ac.in](http://www.vrsiddhartha.ac.in)

### About the College:

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) was established in the year 1977 as the first self-financed engineering college in the state of Undivided A.P. It is located in a vast expanse of 24 acres of land on the outskirts of Vijayawada city at a distance of about 6 Kms from the city Centre. The institution offers 7 undergraduate programmes and 11 Post graduate programmes. Presently 350 faculty members of varied experience and background are working in the institute.

The college has been accredited by NAAC with A+ grade and certified for ISO 9001:2015. It is among the top 16 engineering colleges which were selected under World Bank aid for R&D and PG enhancement Programme called TEQIP-II (S.C.1.2) by MHRD, Govt. of India. The college has secured an All India NIRF Ranking of 178 for the year 2021.

### About Dept. of Mechanical Engineering

The Department of Mechanical Engineering was established in the year 1977. At present, the department is offering one UG Program (B.Tech in Mechanical Engineering) with an intake of 180 and two PG Programs (M.Tech) in CAD/CAM and Thermal Engineering with an intake of 6 and 12 respectively. The Department was recognized by AICTE in 1993. The UG programme of Mechanical Engineering was accredited four times by NBA, GOI, New Delhi, in the years 1999, 2005, 2009 and 2015 and PG programme of (CAD/CAM) in 2015.

The department has well equipped laboratories and state-of-the-art classrooms with all necessary accessories. High academic standards are maintained in the department with the help of experienced, qualified and dedicated faculty members with various specializations following the Outcome Based Education System.

The Department has established the Centre of Excellence in Composites funded by DST-FIST. The department has established state-of-art laboratories in association with Siemens, Dassault systems and Govt. of A.P. for skill development of young engineers in the core areas of Mechanical Engineering.

Faculty members of the department are actively involved in research work and are regularly publishing their work in reputed journals.

### Theme of the Seminar:

Major market survey reports have been projecting Industrial Internet of Things (IIoT) as an evolving technology bearing immense potential to improve productivity, reduce downtime, enhance value to customers and offer significant benefits to all the stakeholders in a typical manufacturing supply chain. Of late, there has been lot of hype in this regard and the term IIoT has been a common buzzword. This seminar aims at providing a first-hand understanding regarding how does IIoT is not a just incremental technology and the way it is revolutionizing not only manufacturing but other associated industries too in a big way.

The seminar aims at offering exposure to the audience regarding nuances of Industrial Internet of Things (IIoT), essential enabling technologies for its implementation, introduction to use cases with reference to manufacturing industry, thus leading to understanding the present state of art and challenges pertaining to IIoT implementation. The seminar is also aiming at bringing awareness pertaining to skills and competencies to be acquired by students, so as to become a key contributor in the evolving industrial scenario.

**Venue:**Seminar Hall, Dept. of Mechanical Engineering, V.R. Siddhartha Engineering College, VJA-7, AP.

### Topics to be Covered:

- Industrial IoT Implementation Status
- IIoT Implementation Architecture and Protocols
- IIoT Implementation in Manufacturing Industry: Use Cases
- IIoT Application for Condition Monitoring of Manufacturing Assets.

### Resource Persons:

**Dr. V. Vasu**, Associate Professor,  
Dept. of Mechanical Engineering, National Institute of Technology, Warangal-506004

**Dr. P. Chandrasekhar**, Technical Director–  
Management consultant, 7s Technologies,  
Secunderabad-500003

**Dr. E. Suresh Babu**, Assistant Professor,  
Dept. of Computer Science & Engineering, National Institute of Technology, Warangal-506004

**Shri Girish Kumar M**, Scientist - D, CMTI,  
Banagalore

### Address for Correspondence:

**Dr. V. L. Krishnan**,  
Associate Professor,  
Department of Mechanical Engineering,  
V R Siddhartha Engineering College, Vijayawada  
-520007, A.P.  
Mobile No: +91-9502571111  
Email: drvkrishnan@vrsiddhartha.ac.in

**Mrs. B. Supraja Reddy**  
Assistant Professor,  
Department of Mechanical Engineering,  
V R Siddhartha Engineering College Vijayawada –  
520007, AP.  
Mobile No: +91-9491185803  
Email: supraja@vrsiddhartha.ac.in