



**CHRIST ACADEMY**  
**INSTITUTE FOR ADVANCED STUDIES**

**AFFILIATED TO BANGALORE UNIVERSITY || BENGALURU - 83 ||**

## **DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS**

**Report** of Five-Day Workshop on “Sensing, Automation and IoT “

**Date & Time:** 8<sup>th</sup> -12<sup>th</sup> February 2023 between 08.00 Am - 01.30 Pm

**Audience:** I MCA and III BCA Students

Event Co-ordinator

Dept of Computer Science & Applications

HOD

Dept of Computer Science & Applications

IQAC Co-ordinator

Christ Academy Institute for Advanced Studies

Principal

Christ Academy Institute for Advanced Studies

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Poster / Brochure



NDLI Club

# FIVE DAYS HANDS-ON WORKSHOP ON SENSING, AUTOMATION AND IOT

08.02.2023 to 12.02.2023  
8 am to 1.30 pm

Expected count : 60

Type of participants : I MCA and III BCA

**Registration Fee: Rs.500**



Resource person

**Dr. Sreenivasa Setty**

Chief Technical Officer SST Technologies  
Bangalore-560078



Program Coordinators: Dr.Sangeetha G and Ms.Jithy Lijo

## Profile of the Speaker

Dr. Sreenivasa Setty pursued his Bachelors (B.E) in Electronics and Communication Engineering from Mysore University in 1990, M.S in Software Systems from BITS Pilani in 1999 and Ph.D (CSE) in Visweshwaraya Technological University (VTU), Belagavi. He has rendered his teaching service with practical hands on experience with a great devotion for over 32 long years in Top-notch technical institutes in Karnataka viz., MVJ College of Engineering, PES Mandya, Don Bosco Institute of Technology, AMC College of Engineering, Dayananda Sagar College of Engineering and R.V.College of Engineering, Bengaluru. He has authored one book and 15 technical articles in refereed journals and proceedings such as



IEEE, Springer. His research interests include Microprocessor and Microcontroller, embedded system, IoT and image processing algorithms. He is having a strong communication and presentation skills, effective collaboration & team building capabilities with zeal to adapt to latest technological and leadership concepts & utilize the same in a productive and effective manner for the progress of the students and the society is his motto. He has hosted workshops in diverse domains of Technology in institutes like RVCE, DBIT, MSRIT, BGSIT, EWIT, DSCE, BGSIT, BMSIT, BNMIT, RRIT etc. As a result, he is a very likeable, student friendly and a popular teacher among the student community. He addressed more than 3 lakh students. He has also founded a technical start up lately named SST Technologies in 2016. Presently Dr. Sreenivasa Setty is the Founder and the CTO of the company. SST Technologies has been established in with a vision to be one of the top companies for IOT, Arduino, Raspberry Pi, Android Development Training, C, C++, Java, Python, Android App Development, Microprocessors, IoT, Dot.net & PHP, Embedded development, Web Designing and hosting, Robotics, Software Testing solutions etc. SST Technology always thrive to provide a better and smarter way to conduct and train the students, in bridging the gap between the industry requirement and the knowledge acquired by students.



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## INSTITUTE FOR ADVANCED STUDIES

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## DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

Five-Day Workshop on “Sensing, Automation and IoT “

**DATE:** 08/02/2023

**TIME:** 08.00 Am Onwards

**MODE:** Offline

**Faculty In charge:** Dr. Sangeetha Govinda and Ms.Jithy Lijo

**Name of the resource person for the event:** Dr. Sreenivasa Setty

**No of Participants:** 120

**Venue:** First floor seminar hall

### Report on the Event

The 5-Day Workshop organized by the Department of Computer Science and Applications began at 08.00 Am on 8<sup>th</sup> of February 2023. It began by welcoming of the Speakers and participants followed by Inaugural Address by Dr. Sangeetha Govind HOD of department computer science and application. She motivated the student with her speech and explained that these kinds of workshops are beneficial for their upcoming placements and technical knowledge which later followed by the warm welcoming of the Speaker Dr. Sreenivasa Setty, Founder and the CTO of SST Technologies.

Dr. Sreenivasa Setty then tookover the session about Sensing, Automation and IoT using Arduino Uno Microcontroller, how to make a IoT Sensing devices using Arduino Uno Microcontroller and an hands on experience in hardware and software. The students were asked to work on Arduino 1.8.16 software and CISCO packet tracer. The students were asked to form a team of 3 as to provide Arduino kit to each team. Dr. Sreenivasa Setty explained about what digital and analog signal, sensor, actuator, processor and code using python.

Dr. Sreenivasa Setty gave a complete in and out of sensing, automation and IoT and how the Embedded System Design Using Arduino Uno Microcontroller works which included the implementation of RGB LED combination along with how to control LED with push button.

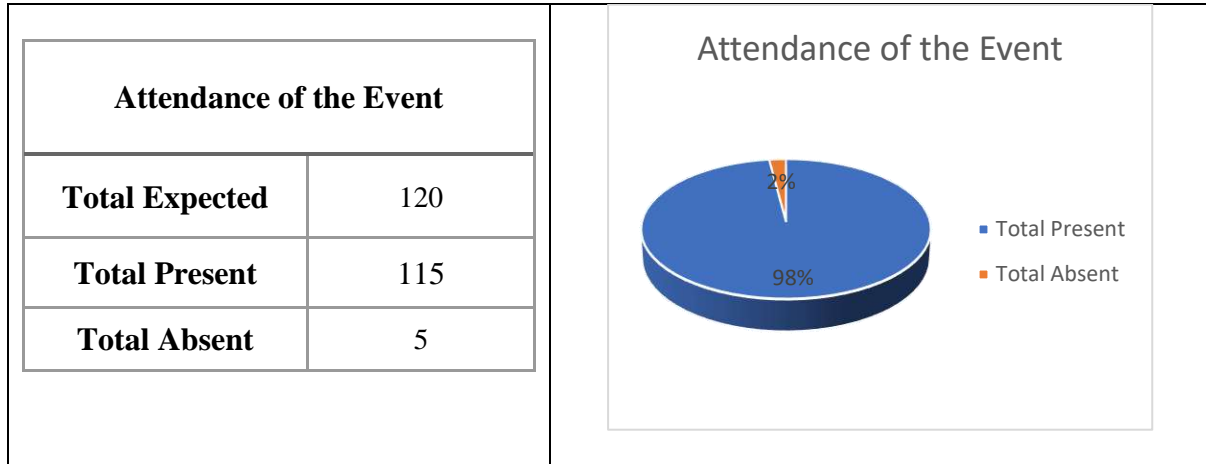
The students were introduced to smart fan and controlling of smart light with the wireless connection in virtual mode of the Arduino microcontroller with the help of the app "Cisco Packet Tracer". Later the resource person also spoke about controlling the Arduino board using Bluetooth interface and to design the connection and to glow the LED just once. Later he gave an activity to modify the code accordingly to control buzzer and RGB LED combination using the "Bluetooth Serial Controller".

The students were assigned for model design activity, and they were asked to form 5 teams of 11 members in each team with five leaders assigned and groups were formed accordingly. The students were given 2 days to do a model with the help of an Arduino Uno kit provided to them by implementing the concepts learned from the sessions taken on day 1 and day 2. This was followed by a IOT Workshop Model Exhibition where students were asked to present their IoT models which they had designed to the CAIAS faculty and students.

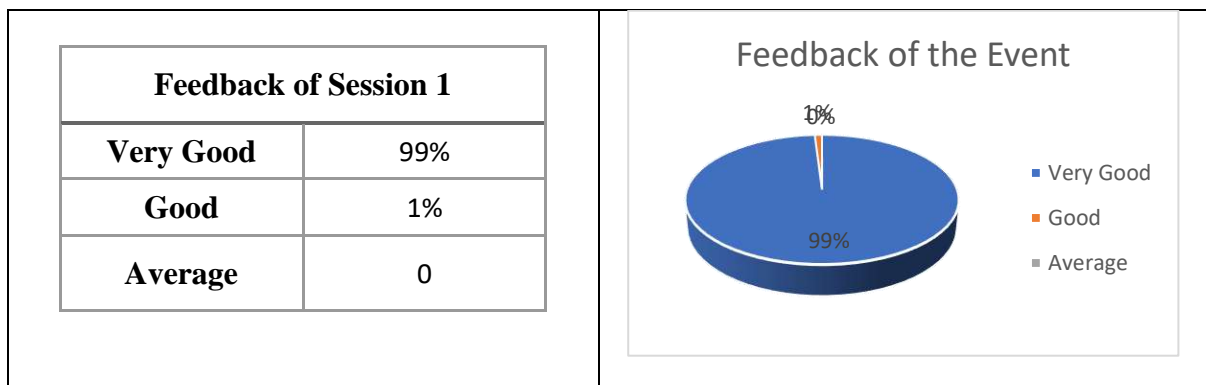
Later Dr. Sreenivasa Setty gave the brief about the SST Technologies which has been established in with a vision to be one of the top company for IOT, Arduino, Raspberry Pi, Android Development Training and Solution provided in Aisa. SST Technology always thrive to provide a better and smarter way to conduct and train the students, we also show them the industry requirement and train for the same. They give a detail in IoT with Introduction to Embedded C, Introduction to NodeMcu and Esp8266, Getting Started with Blynk, Control Servo Motors.

A immersive positive response was received by the faculty and students for designed models and the BCA/BSc III semester and MCA I semester students had presented the models very effectively by giving a elaborate explanation of the working of the model, the students cleared the queries of the audience interactive question answer session. Finally, Dr. Sreenivasa Setty, was thanked and facilitated for an enlightening session and the 5-Day workshop was brought to a close.

## Attendance Report



## Feedback Report



## Appendix 1

### Links

### Feedback

[https://docs.google.com/forms/d/1l7drWvTlp\\_Wl\\_vfqm9\\_Sg6DY9OrnDePJ17zR4Vfpk-s/edit#responses](https://docs.google.com/forms/d/1l7drWvTlp_Wl_vfqm9_Sg6DY9OrnDePJ17zR4Vfpk-s/edit#responses)



## Photos









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Bengaluru, Karnataka 560083, India

Lat 12.823488°

Long 77.619294°

09/02/23 02:54 PM