



Sri SAI RAM
COLLEGE OF ENGINEERING

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 Anekal, Bengaluru, www.sairamce.edu.in



25 years of academic excellence!



Department of Electronics & Communication Engineering

Organizes

Two Days Workshop on Embedded System

"Gesture Bot"

Join us on

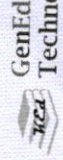
29th and 30th November 2022 @ 9:30 AM



Resource Person



Sri. Uday bhargav



Dr. Sri Sai Prakash LeoMuthu
 Chairman & CEO, Sairam Institutions

Dr. B. Shadaksharappa
 Principal

Dr. T N Prabakar
 Prof. & HOD, ECE

Prof. Geetha S
 Coordinator

Vision of the Institute

To emerge as a "Centre for excellence" offering Technical Education and Research opportunities of very high standards to students, develop the total personality of the individual, and instill high levels of discipline and strive to set global standards, making our students technologically superior and ethically strong, who in turn shall contribute to the advancement of society and humankind.

Vision of Dep.

Producing competent engineers with innovative ideas to meet the global needs and standards

PEOs of Dep.

- PEO1: To develop analytical technological skills with a professional attitude in the field of Electronics and communication Engineering.
- PEO2: To reform self-learning with technical potency in Industry- oriented training.
- PEO3: To renew Industrial technologies with professional estimation through attained knowledge in their chosen field.
- PEO4: To inculcate professional effectiveness with self-oriented Industrial ethical revolution.

Mission of the Institute

We Dedicate and commit ourselves to achieve, sustain and foster unmatched excellence in Technical Education. To this end, we will pursue continuous development of Infrastructure and enhance state-of-the-art equipment to provide our students a technological up-to-date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and inculcate in them ethical and moral values.

Mission of Dep.

- M1. To produce graduates with technical expertise, professional attitude & ethical values
- M2. To reform the potency of Engineering through exploration-based learning
- M3. To create a passion amongst students for contributing to research by providing Industry-oriented training.
- M4. To inculcate in the graduates, the thirst for self-learning & guide them to obtain knowledge in their chosen field.



02.12.2022

Report on 2 Days Workshop "Gesture Bot"

IQAC-Sri Sairam College of Engineering, & Department Electronics and Communication along with GenED Technologies organized a Two Days Workshop for Final Year ECE students on "Gesture Bot" from 29.11.2022 to 30.11.2022.

On 29.11.2022 day one, the program started with Invocation Song and a welcome address by Ms. Rayanu.N, Final Year ECE and the importance of the workshop was briefed by Dr. T.N. Prabakar, Professor & Head, and Department of ECE, Chief guest Introduction was given by Mrs. S. Geetha, Assistant Professor, ECE, and The Chief guest Sri Uday Bhargav, GenEd Technologies briefed about the Workshop.

The workshop was conducted in Embedded Lab. The students were taught coding in Arduino Board with IDE. The students were arranged as 20 batches with 3 in each group. The kit (a Robo car) was given for each batch. The students have installed the software Arduino IDE 2.0.3 and MIT App Inventor on their Laptops for further working after college hours. The students were taught about the basic coding in app, Pin diagram of the microcontroller used, and the methods to provide inputs and verify output in Arduino (via LED blinking).

The fundamental concepts of Layout Design, loops and to interconnect in microcontroller were taught. The interconnection between the Arduino and MIT app were discussed. The students were taught about the motor wheel control via -MIT APP.

On 30.11.2022, Day 2, The students were taught to link the program and control the car based on their direction of motion. They were given insight into the way they can program in Arduino and control the bot (the car) with the gesture. The kit was Connected using WIFI and the wheel robot was made to work, Controlled based on direction given in the MIT APP inventor. The students were able to make their bot work according to their hand gesture. Since the students were able to work as batches, they were able to learn the Program, ask doubts and all were able to complete the given task of controlling the bot with the Gesture information.

Followed by Question and Answer session was conducted, where the students involved actively and few students had given feedback on the two days Workshop and the same was recorded. The students have suggested to organize these kinds of programs which helps in their final year Project. The Program ended with conclusion remarks by Dr. T.N. Prabakar, Professor & Head, and Department of ECE and Vote of Thanks given by Mrs. S. Geetha, AP, ECE.