

**School of Computer Information and  
Mathematical Sciences**

**Department of Computer Science and Engineering**

**Code Connect and Control  
Workshop**

**28<sup>th</sup> Aug 2024 – 29<sup>th</sup> Aug 2024**

**Venue: IoT laboratory**

**Time: 9:10 am to 4.00 pm**



## **School of Computer Information and Mathematical Sciences**

### **Event Report**

Name of the Event : Code Connect and Control

Date : 28<sup>th</sup> Aug 2024 – 29<sup>th</sup> Aug  
2024

Venue : IoT laboratory

Total number of participants who attended  
the workshop: Day 1 -15 , Day 2 - 16

Multimedia and Robotics Club of the Department of Computer Science and Engineering, B .S. Abdur Rahman Crescent Institute of Science and Technology organized a Code Connect and Control workshop from 28th Aug 2024 to 29<sup>th</sup> Aug 2024. In the “Build Your Own RC Car” robotics workshop, participants will embark on an exciting journey to construct their own remote-controlled cars. The session was conducted with the assistance of our esteemed faculty members Dr. R. Akila Associate professor, Ms. A. Snegaa Assistant Professor, Mrs. A. Saraswathi Assistant Professor, Mrs. M. Latha Assistant Professor, Mrs. C. Jeeva Assistant Professor, Ms. Varsha Vardhini Assistant Professor, Mr. R. Ram Deepak Assistant Professor and students including Mr. M. Sarathi Ganesh from B. Tech CSE (IoT) 4th year, Mr. Wasim Shaikh from B. Tech CSE (IoT) 4th year, Mr. Rohan A from B.Tech CSE(IoT) 4<sup>th</sup> year who shared their knowledge and experience in the fields of building up the RC Car.

## Objective:

**Understand RC Car Components:** Gain knowledge about the various parts that make up an RC car, including the frame, motors, receiver board, and transmitter.

**Mechanical Assembly Skills:** Develop hands-on skills in assembling the car frame and attaching motors, ensuring a solid and functional build.

**Basic Electrical Wiring:** Learn the fundamentals of electrical connections, including wiring motors to the receiver board and maintaining proper polarity.

**Wheel Alignment and Testing:** Acquire the ability to align wheels correctly and test their performance, making necessary adjustments for optimal operation.

**Radio Communication Basics:** Understand the principles of radio communication by pairing the RC car with the transmitter and learning to control it remotely.

**Control Mastery:** Practice and master the skills needed to makeover the RC car, including steering, acceleration, and reversing.

**Troubleshooting and Customization:** Develop problem-solving skills to address any issues that arise and explore ways to further customize and improve the RC car.

**Certification and Achievement:** Complete the workshop with a fully functional RC car and receive a participation certificate, recognizing the skills and knowledge gained.

## Topics discussed:

In the robotics workshop conducted by Mr. M. Sarathi Ganesh and Mr. Wasim Shaikh, the topic discussed the “Build Your Own RC Car”, participants will embark on an exciting journey to construct their remote-controlled cars. The workshop begins with a warm welcome and an introduction to the components and safety guidelines. Participants will then dive into the mechanical assembly, putting together the car frame and attaching the DC motors. Following this, they will learn the basics of electrical wiring, connecting the motors to the receiver board with careful attention to polarity and neatness. Once the wheels are aligned and tested for optimal performance, the focus shifts to pairing the RC car with the transmitter, covering the essentials of radio communication. Participants will then practice controlling their cars, mastering steering, acceleration, and reversing. The session concludes with a Q&A segment for troubleshooting and tips on further customization, ending with a recap and the

distribution of participation certificates. By the end of the workshop, attendees will have a fully functional RC car and a solid foundation in mechanics, electronics, and wireless communication.

## Outcome:

**Enhanced Understanding of Robotics:** Participants gained a solid foundation in the fundamental concepts of robotics, including the definition, types, and key components of robots.

**Practical Knowledge of Robot Components:** Attendees learned about sensors, actuators, and controllers, understanding their roles in detecting environmental changes, enabling movement, and managing functions.

**Insight into Autonomous and Controlled Robots:** The workshop provided clarity on how robots can be guided by external control devices or operate autonomously through internal control systems.

**Awareness of Robotics Applications:** Participants explored the versatility of robots in performing repetitive, dangerous, or difficult tasks across various environments, from industrial settings to outer space.

**Introduction to Multimedia:** The session on multimedia introduced participants to the integration of text, audio, images, animations, and video to create engaging and interactive experiences.

**Improved Presentation Skills:** Through Mr. Wasim Shaikh's guidance, attendees learned how to design compelling PowerPoint presentations, focusing on effective communication and visual appeal.

**Real-World Applications:** The workshop highlighted the practical applications of robotics and multimedia in communication, education, entertainment, and business, demonstrating their impact on various industries.

**Career-Relevant Skills:** Participants developed skills relevant to their future careers, including robotics assembly, multimedia design, and presentation techniques.

## Brochure of the Workshop:



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**MULTIMEDIA AND ROBOTICS CLUB**  
**PRESENTS**

# CODE CONNECT AND CONTROL

**BUILD AND PROGRAM YOUR OWN RC CAR**

**STAFF CO-ORDINATORS**

DR.R.AKILA  
MS. A. SNEGAA  
MRS. M. LATHA  
MRS. C. JEEVA  
MRS. A.SARASWATHI  
DR.S.VARSHA VARDHINI  
MR.R.RAM DEEPAK

**Student Co-ordinators :** Mr.Sarathi Ganesh. M 9962869897  
Mr.Wasim Shaikh 9342591121  
Mr. Mohamed Yousuf .S 6383632016

**Convenors**

Dr. Sharmila Sankar  
Dean/SCIMS  
Dr. Aisha Banu W.  
HOD/CSE

**Registration fee Rs-200/-**



**DATE & TIME: 28/08/24 - 29/08/24**  
**& 9:10AM TO 04:00PM**  
**VENUE: IOT LAB**



**For registration scan the QR code**



## Participants Name

list: DAY 1

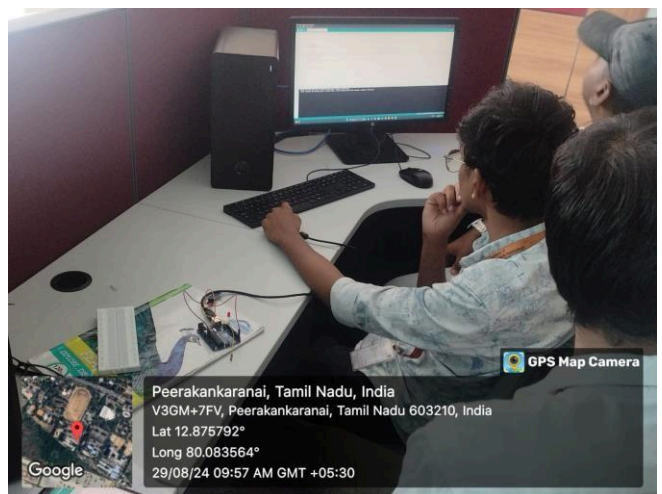
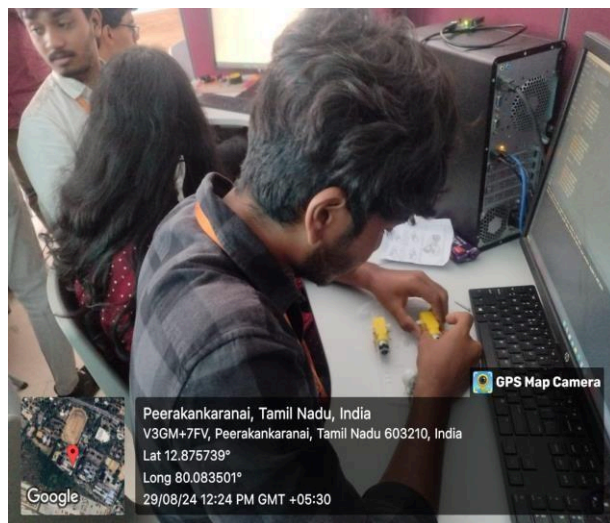
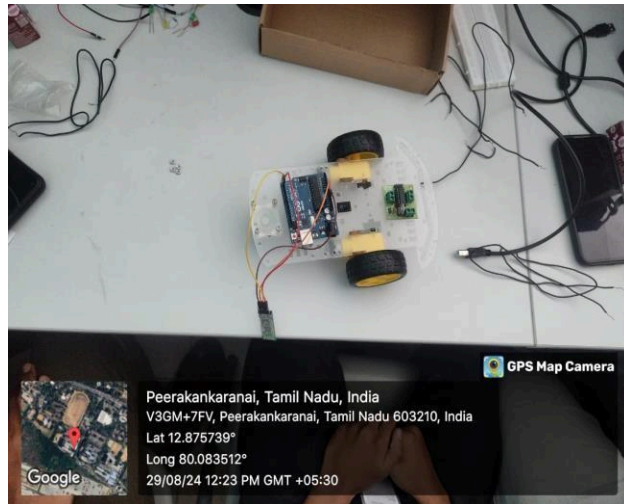
NAME	RRN	DEPT AND YEAR	SIGN
M. Mohamed Ansar	220171601048	B.Tech-AI&DS - 3rd year	Amal
Mohamed Raashid	220171601055	B.Tech-AI&DS - 3rd year	Amal
ANFETH AHMED S.M	220171601035	B.Tech - AI & DS - 3rd year	Amal
Jawed Ahmed .J	230171601060	B.Tech - AI&DS - 2nd year	Amal
M. Mohammed Salman	220171601070	B.Tech AI&DS - 3rd year	Amal
B. Iska Pillai	230171601057	B. Tech AI&DS - 2nd year	B. Iska
Akif Abdul Rahman	230021601004	B. Tech Mechanical Engineering 3rd year	Akif
Syed Noushad	230071601237	B. Tech CSE - 2nd year	Noushad
Abdul Gani Ayman	230191601002	B.Tech CSE(IOT)-2nd year	Ayman
Mohammed Ishaq	230181601039	B-tech CSE(CS) 2nd year	Ishaq
AARASH RAJA RAJAN VM	230171601002	B. tech (AI&DS) - 2nd year	A. R. Rajan
R. GAVIN RICHARD	230171601046	B. Tech (AI&DS) - 2nd year	Gavin
MOHAMMED AYUB B	230171601136	B.Tech (AI&DS) - 2nd year	Ayub

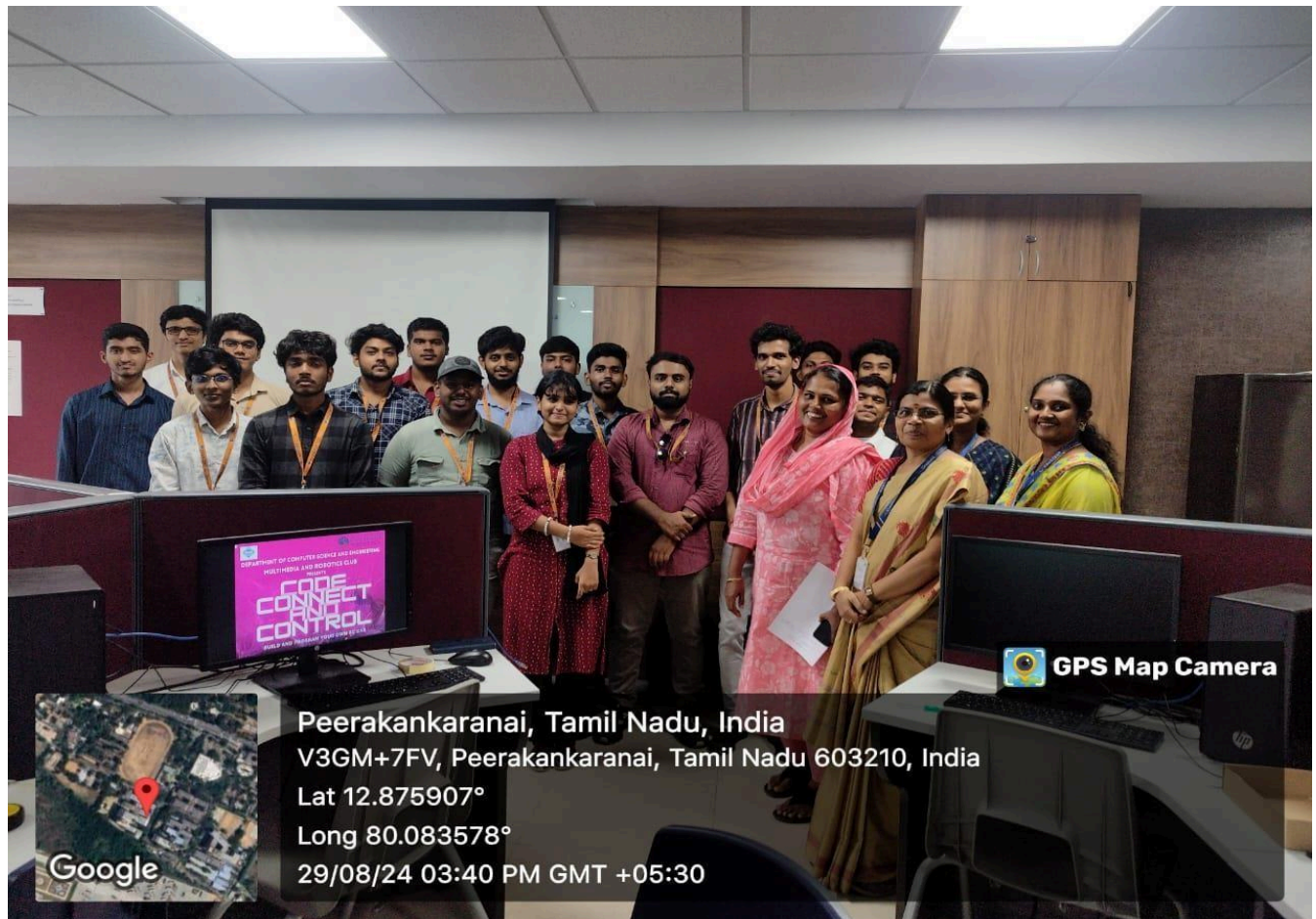
## DAY 2

NAME	RRN	DEPT AND YEAR	SIGN
M. Mohamed Anwar	220171601048	B Tech AIDS 3 <sup>rd</sup> year	Anwar
Mohamed Raashid J	220171601055	B Tech AIDS 3 <sup>rd</sup> year	Raashid
Javeeth ahamed S	220171601035	B Tech AIDS 3 <sup>rd</sup> year	Javeeth
Tamam Abdul Wadood	220171601034	B Tech AIDS 3 <sup>rd</sup> year	Tamam
M. Mohammed Salman	220171601070	B Tech AIDS B 3 <sup>rd</sup> year	Salman
b Isha Pillai	230171601057	B Tech AIDS A 2 <sup>nd</sup> yr	Isha
Aakash Rajan	230171601002	B Tech AIDS A 2 <sup>nd</sup> yr	Aakash
R. GANESH RICHARD	230171601046	B Tech AIDS A 2 <sup>nd</sup> yr	Richard
J. Jawed Afamed	230171601060	B Tech AIDS 2 <sup>nd</sup> yr	Jawed
Mohammed Ishaq	230181601039	B Tech cyber 2 <sup>nd</sup>	Ishaq
Syed Nouhad M	230071601037	B Tech CSE 2 <sup>nd</sup> yr	Nouhad
Akf Abdul Rahman	230021601009	B Tech Mechanical 2 <sup>nd</sup>	Akf
Abdul Gani Ayman	230121601002	B Tech CSE (IoT) 2 <sup>nd</sup> year	Ayman
MOHAMMED AYUB B	230171601136	B Tech (AIDS) - C 2 <sup>nd</sup> year	Ayub



## Pictures taken during the meeting:





**“Crafting tomorrow's wonders, today: Dive into the world of Robotics and Multimedia with us”**

**Faculty coordinators**

Dr. R. Akila, Asso.Prof/CSE  
Ms. A. Snegaa, AP/CSE  
Mrs. M. Latha, AP/CSE  
Mrs. A. Saraswathi, AP/CSE  
Mrs. C. Jeeva AP/CSE  
Dr. Varsha Vardhini, AP/CSE  
Mr. R. Ram Deepak, AP/CSE

**Convenor**

Dr.W.Aisha Banu, HOD/CSE