



RajaRajeswari College of Engineering

#14, Ramohalli Cross, Kumbalagodu, Mysuru road, Bengaluru - 560 074
(Approved by AICTE, New Delhi. Affiliated to the Visvesvaraya Technological University, Belagavi)

Department of Robotics and Automation

NEWSLETTER

Volume :2 Issue: 2

CYBORGS 2022 -2023



Chief Patron



Dr.A.C.Shanmugam,
B.A.LLB, FIMSA, FRCPS (Glasgow,UK)
Former MLA., MP.,
Chairman,
RajaRajeswari Group of Institutions.



Mr.A.C.S.Arunkumar
B.Tech (Hons), LMISTE,MIET.,
(UK),LMCSI., MIEEE, MCSI, MISTE,
CEngg(India),
Vice-Chairman,
RajaRajeswari Group of Institutions.

Patrons

Dr.S.Vijayanand, M.Tech, Ph.D.,
Executive Director
RajaRajeswari Group of Institutions.

Dr. S.Jeyabalan, M.E., MBA., Ph.D.,
Special Officer
RajaRajeswari Group of Institutions.

Dr.A.K.Mariyappan
Rector
RajaRajeswari Group of Institutions.

Principal

Dr.R.Balakrishna, Ph.D.,
RRCE

Dr.S.Usha
Dean R&I, RRCE

Dr.Thangadurai. N
Dean IPS, RRCE

Dr.J.Amutharaj
Vice-Principal, RRCE

We express our utmost gratitude to the Management, Rector, Principal, Dean R&D, and Vice Principal for their unwavering encouragement, inspiration, and support throughout the compiling and release of our latest newsletter - "**CYBORGS 2022-2023**". Their constant support has been essential in bringing this publication to fruition.

Department at a Glance

The Department of Robotics and Automation was started in the academic year 2021-2022 with an intake of 60 students.

The department boasts a team of highly qualified faculty members, possessing extensive experience in diverse fields of engineering.

The Robotics and Automation program aims to plan, Design, Construct, and Operate and effective & independent usage of robotic devices. It is learned further the utilization of the computer systems required for its control, a sensor element, feedback, and information processing of Robotics and Automation devices.

The department is equipped with state-of-the-art laboratories featuring advanced software, facilitating accurate and efficient results. Additionally, the department conducts numerous seminars, workshops, and Industry-Institute Interactions to enhance the students' knowledge.

Course Offered:

UG Programme:

- Bachelor of Engineering in Robotics and Automation -4 Years.



Dr.M.Karthikeyan
M.E., Ph.D.,
HOD-R&A



FANUC Robo Guide
Simulation

FANUC 6 Axis
Industrial Robot



Department of Robotics and Automation

VISION

To develop technically skilled Robotics and Automation engineers with the systems & multidisciplinary approach in-line with the dynamic technologies for the competitive solution to the society.

MISSION

- To provide a technical education through an effective teaching-learning process to meet the industry requirement.
- To teach the process of designing, creating, and using robots to perform a certain task in problem-solving skills and up-gradation of knowledge through a project-based approach in collaboration with industries.



Automation as "the creation and application of technology to monitor and control the production and delivery of products and services."

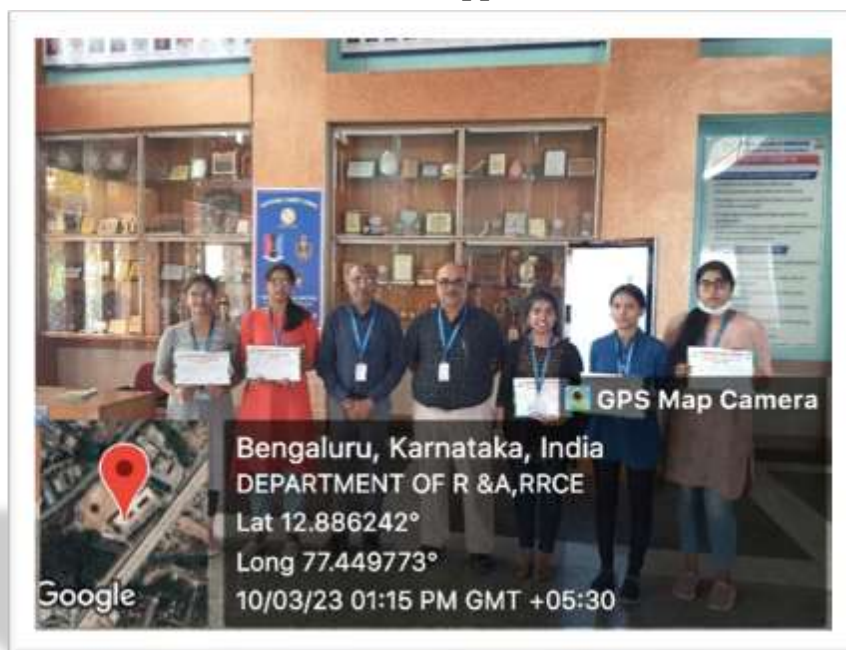
Department of Robotics and Automation Association**Department of Robotics and Automation Association members for the AY 2022-23**

The following students were nominated as office bearers of the Department of Robotics and Automation Association for the Academic Year 2022-23.

SI No	USN	Name of the Students	Designation
1	1RR21RA016	NISANKA MANSI CHANDRAN	President
2	1RR21RA011	LOHITH M R	Secretary
3	1RR21RA017	NITHASHREE L	Treasurer
4	1RR21RA003	BHUMIKA H S	Executive member
5	1RR21RA018	NITHYA B	Executive member
6	1RR22RA028	TANZEEM	Executive member
7	1RR22RA010	JAFFER A	Executive member
Staff Incharge: Prof.Radhakrishna R K			

Academic Toppers in the Odd Semester of the Academic Year 2022-23

Visvesvaraya Technological University examinations January / February 2023
3rd Semester Class Toppers



The 2nd year of students of the Department of Robotics and Automation of RajaRajeswari College of Engineering Ms.Jeevika D K 1RR21RA009 has secured 94.1% & 1st Rank in class, Ms.Nithya B 1RR21RA018 has secured 91.5% & 2nd Rank in class, Ms.Viha Trupthi.S.Pandit 1RR21RA022 has secured 89% & 3rd Rank in class, Ms.Bhumika H S 1RR21RA003 has secured 88.4% & 4th Rank Ms. Nisanka Mansi Chandran 1RR21RA016 has secured 86.5% & 5th Rank, , in the 3rd Semester Visvesvaraya Technological University examinations January / February 2023. All secured first class with distinction. The student's academic excellence is honored with the Merit certificate by the Principal Dr.R.Balakrishna and Dr. M. Karthikeyan, HOD R&A.

Department of Robotics and Automation 1st semester class toppers during the AY 2022-2023**CLASS TOPPERS****IN VTU 1ST SEMESTER EXAMS HELD DURING JAN / FEB 2023**

Mr.AKARSH KASHYAP S
1RR22RA002
79.60 %
1st Rank



Ms.BHUVANESHWARI G
1RR22RA004
79.10 %
2nd Rank



Mr.ROHITH V GOWDA
1RR22RA019
78.5%
3rd Rank



Ms. SHRIHAARIKA K
1RR22RA024
75%
4th Rank



Mr.DHANUSH H
1RR22RA006
73.4%
5th Rank

Congratulations**All Secured First Class with Distinction**

The 1st Year students of the Department of Robotics and Automation of RajaRajeswari College of Engineering Mr.Akarsh Kashyap.S 1RR22RA002 has secured 79.60% & 1st Rank in class, Ms.Bhuvaneshwari G 1RR22RA004 has secured 79.1% & 2nd Rank in class, Mr.Rohith V Gowda 1RR22RA019 has secured 78.5% & 3rd Rank in class, Ms.Shrihaarika K 1RR22RA024 has secured 75% & 4th Rank, Mr. Dhanush H 1RR22RA006 has secured 73.4% & 5th Rank, , in the 1st Semester Visvesvaraya Technological University examinations January / February 2023. All secured first class with distinction. The student's academic excellence is honored with the Merit certificate by the Principal Dr.R.Balakrishna and Dr. M. Karthikeyan, HOD R&A.

Department of Robotics and Automation

Department of Robotics and Automation 3rd semester class toppers during the AY 2022-2023

CLASS TOPPERS
IN VTU 3RD SEMESTER VTU EXAMS HELD DURING
JAN / FEB 2023
All students secured
First Class with Distinction

 Ms. Jeevika D K 1RR21RA009	 Ms. Nithya B 1RR21RA018	 Ms. Viha Trupthi S. Pandit 1RR21RA022	
 Ms. Bhumika H S 1RR21RA003	 Ms. Nisanka Mansi Chandran 1RR21RA016	 Mr. Samvrudh N 1RR21RA019	
 Ms. Nithashree L 1RR21RA017	 Mr. Asbin Dony A 1RR21RA001	 Mr. Naveen Kumar S N 1RR21RA015	 Mr. Balasaravana S 1RR21RA002

Congratulations

“

Everything that can be automated
will be automated.

— ROBERT CANNON, INTERNET LAW AND POLICY EXPERT

”

DIGITAL LIFE IN 2025

Department of Robotics and Automation 1st semester students secured first class with distinction during the AY 2022-2023

CLASS TOPPERS

IN VTU 1ST SEMESTER EXAMS HELD DURING JAN / FEB 2023



Mr.AKARSH KASHYAP S
1RR22RA002



Ms.BHUVANESHWARI G
1RR22RA004



Mr.ROHITH V GOWDA
1RR22RA019



Ms. SHRIHAARIKA K
1RR22RA024



Mr.DHANUSH H
1RR22RA006



Mr.PRAJWAL NOOLA
1RR22RA016



Mr.SHREYAS S RAI
1RR22RA023

Congratulations

All Secured First Class with Distinction



Mr.INDRESH A
1RR22RA009



Ms.RANJITHA P
1RR22RA018



Ms.SOUJANYA NAGARAJ
SHALI
1RR22RA025



Mr.PREM KUMAR G
1RR22RA017



Everything that
can be
automated will be
automated











ROBERT CANNON

DESIGNED & CRAFTED BY

ORIGIN

Department of Robotics and Automation 3rd semester students secured first class with distinction during the AY 2022-2023

CLASS TOPPERS
IN VTU 3RD SEMESTER VTU EXAMS HELD DURING
JAN / FEB 2023
All students secured
First Class with Distinction

 Ms. Jeevika D K 1RR21RA009	 Ms. Nithya B 1RR21RA018	 Ms. Viha Trupthi S. Pandit 1RR21RA022	
 Ms. Bhumika H S 1RR21RA003	 Ms. Nisanka Mansi Chandran 1RR21RA016	 Mr. Samvrudh N 1RR21RA019	
 Ms. Nithashree L 1RR21RA017	 Mr. Asbin Dony A 1RR21RA001	 Mr. Naveen Kumar S N 1RR21RA015	 Mr. Balasaravana S 1RR21RA002



Publications

- K. S. Madhu, Dr. Shankara Reddy R, Dr. S. G. Sanga Shetty, Dr. Satheesha V. “Heat Transfer and Pressure Drop variation in Helical Coil Heat Exchange with varying pitch using Water-based TiO₂ Nanofluid” In International Journal of European Chemical Bulletin, Vol. 12, Issue 7, (2023): 2300-2308.

Faculty Contribution to Academic Excellence



Dr.N.Sreenivasalu Reddy, Associate Professor, Department of Robotics and Automation Engineering has translated course material for the National Programme on Technology Enhanced Learning (NPTEL)

Certificate received from NPTEL



Translate the course Engineering Mechanics in the Kannada language



Translate the course Computer Numerical Control of Machine Tools and Processes in the Telugu language

Faculty Contribution to Academic Excellence



Dr K C Vishwanath, Associate Professor, Department of Robotics and Automation has participated in the AICTE Training And Learning (ATAL) Academy Offline FDP on "AICTE-ATAL Idea Lab Basic Faculty Development Program (Hands-on Training)", organised by Visvesvaraya Technological University-CPGS, Muddenhalli, Chickballapur (Dt) during 7th - 11th August 2023



**AICTE-ATAL Idea Lab Basic Faculty Development Program
(Hands-on Training) Certificate**

Faculty Contribution to Academic Excellence



Dr K C Vishwanath, Associate Professor and Dr.N.Sreenivasalu Reddy, Associate Professor, Department of Robotics and Automation Engineering has attended the 46th Series KSCST Students Project Programme, Seminar and Project Exhibition held at ALVA's Institute of Engineering & Technology, Moodubidire during 11th and 12th August 2023 along with the students of the Department of Mechanical Engineering.

Technical Seminar



Mr. Kiran Babu, Senior Manufacturing Consultant. M/s SOLIZE India Technologies Private Limited, Bengaluru delivered the technical talk on “DELMIA 3D EXPERIENCE for Academia” to the students of the Robotics and Automation on Saturday, 15th June 2023.

Technical Seminar



Dr.M.Karthikeyan, HOD R&A welcomed the speaker Mr. Muthukrishnan G. MD, M/s Universal Tech Automation, Coimbatore delivered the technical talk on “Robotics in Factory Automation”



Mr. Muthukrishnan G. MD, M/s Universal Tech Automation, Coimbatore delivered the technical talk on “Robotics in Factory Automation” to the students of the Robotics and Automation on Tuesday, 20th June 2023.

Knowledge Enhancement of the faculty members



Faculty members from the Department of Robotics and Automation and the Department of Mechanical Engineering visited NTTF, Bengaluru on 04th May 2023 and had a discussion with the members of the institute.

Department of Robotics and Automation

NCC-1kar Naval Unit



Mr.Lohith M R, (1RR21RA011) is in the rank of "cadet" in "1kar naval unit" Bengaluru.



Mr.Lohith M R, (1RR21RA011) with other "cadets" of "1kar naval unit" Bengaluru.



\ Mr.Lohith M R, (1RR21RA011) with other "cadets" during the ATC(Annual Training Camp) in Christ University, Kengeri from 25th May 2023 to 4th June 2023 of "1kar naval unit" Bengaluru.

Students' Achievement in Co-curricular Activities



Ms.Bhumika H.S, (1RR21RA003) has participated in the event Winged Ink Pencil Sketching Competition and won second place during the VAIMAANIK organized by Global Academy of Technology from 30th June / 1st July 2023.

Industrial Visit



Mr. Vijayendra, HR, M/s Sansera Engineering Ltd, Bengaluru addressed the students about the industry



Students of Robotics and Automation visited to M/s Sansera Engineering Ltd, #143/A, Bommasandra Jigani Link Road, Bengaluru. Karnataka 560105 on Saturday, 25th March 2023.

Student Internship Training at COMED KARES



Dr.M.Karthikeyan, HOD RA reviewed the model done by the students during the internship



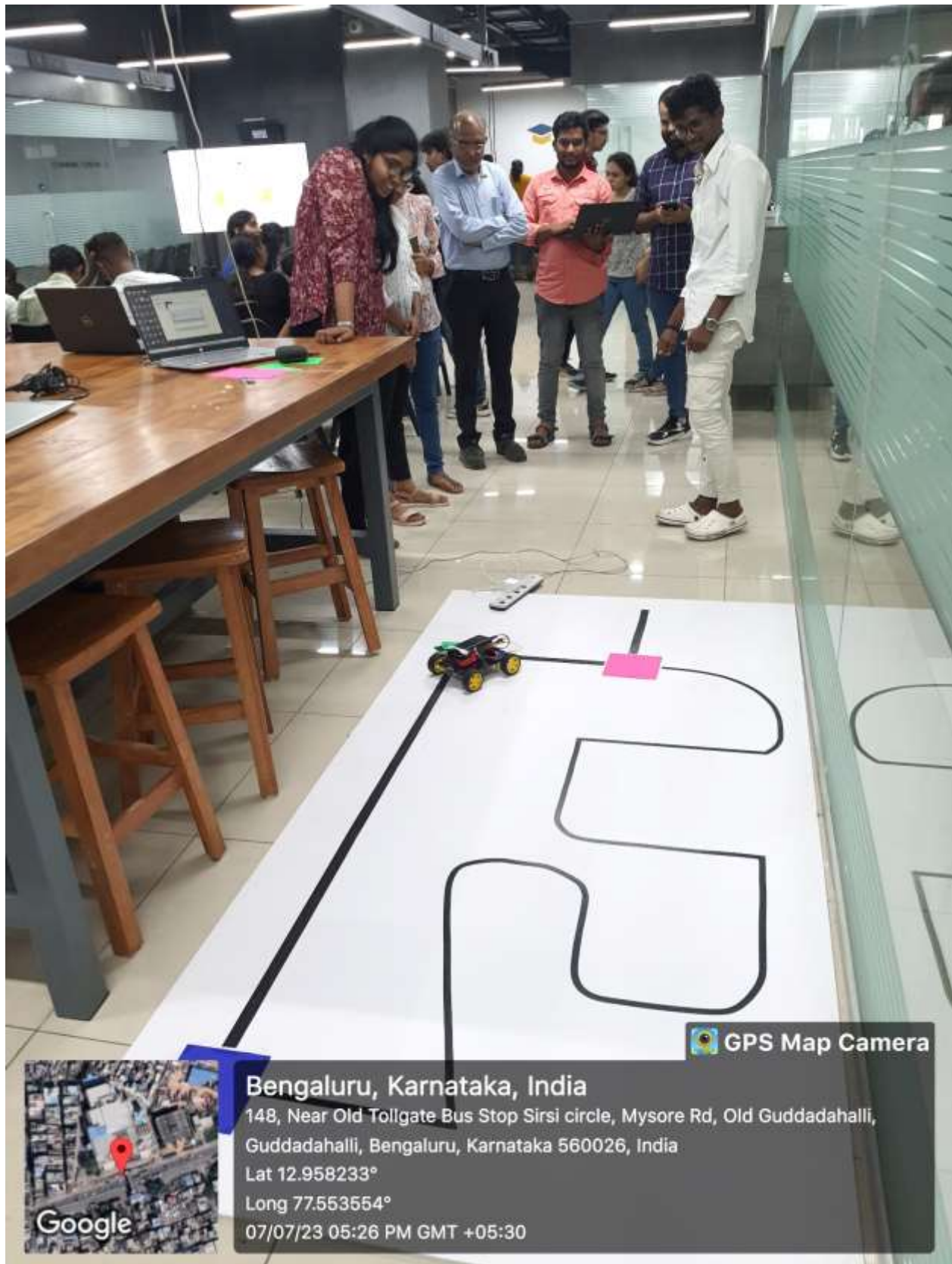
Dr.M.Karthikeyan, HOD RA reviewed the model done by the students during the internship



Dr.M.Karthikeyan, HOD RA reviewed the model done by the students during the internship



Dr.M.Karthikeyan, HOD RA reviewed the model done by the students during the internship



Dr.M.Karthikeyan, HOD RA reviewed the line follower robot model done by the students during the internship



Mr. SUHAS S VASISHTA (1RR21RA020), 4th semester student of the Department of Robotics and Automation has received the best students of the internship and received the certificate and memento from Dr.M.Karthikeyan, HOD RA



Students with internship certificates

**Student participation in the Internship during
the academic Year 2022-2023**



CERTIFICATE OF COMPLETION

This is to certify that

Suhas S Vasishta

From Robotics and Automation with USN #8218A020 From the Rajarajeswari College Of Engineering
Has successfully completed the internship programme on Robotics held at
Comedkares Innovation Hub, JP Nagar, Bengaluru from 18/05/2023 TO 08/06/2023

14 JUNE 2023

Facilitator
COMEDKARES

Executive Secretary
COMEDKARES

16 students of the Department of Robotics and Automation have successfully completed the internship at M/s COMED KARES, Bengaluru between the intervening period of 3rd and 4th Semester vacation of the academic year 2022-23

Technoxian 2023- World Robotics Championship

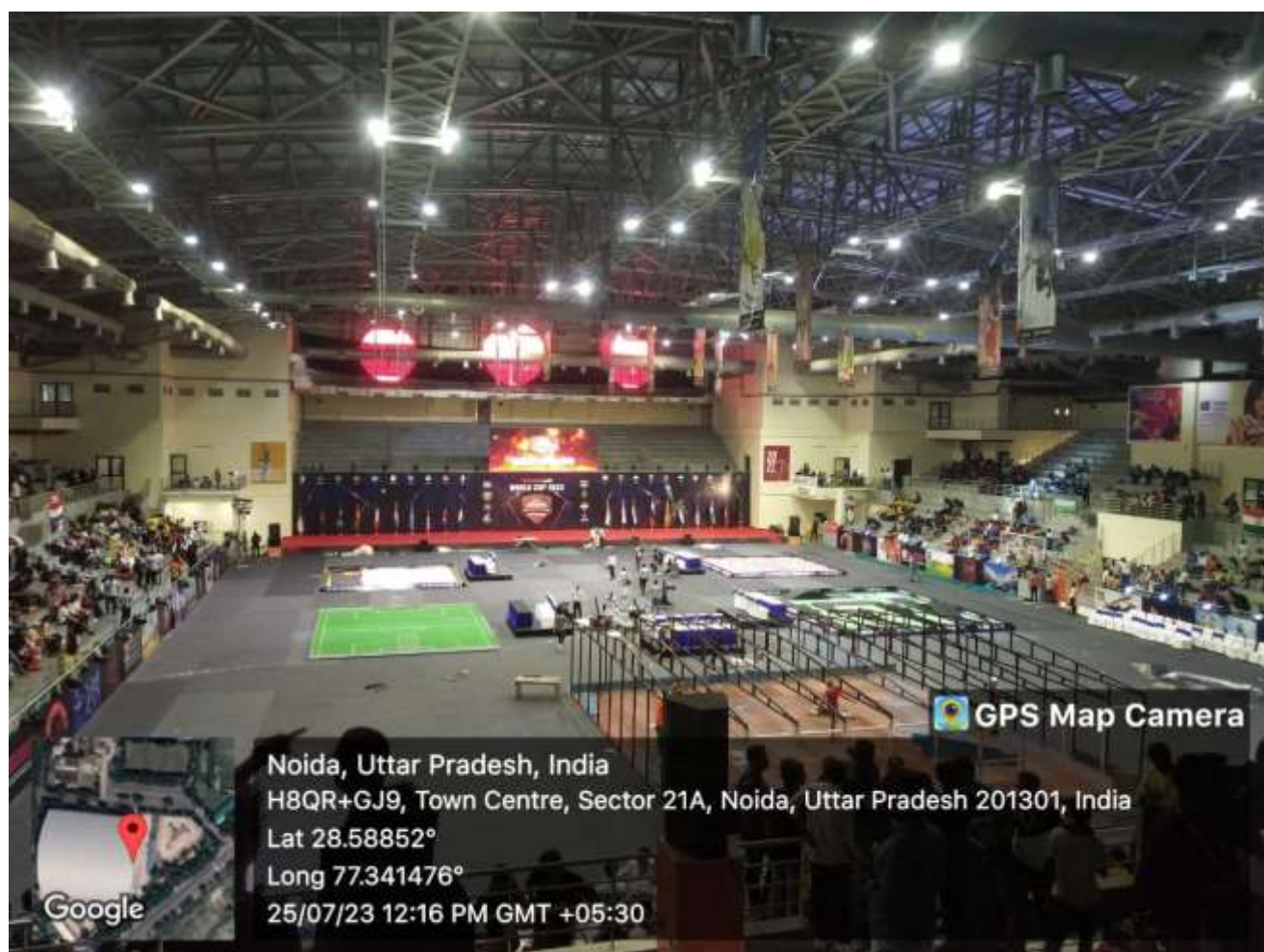
Students of Robotics and Automation has participated in Technoxian 2023- World Robotics Championship at New Delhi from 25th to 27th July 2023



Faculty coordinator Prof.Radhakrishna R K, Dept of ME, RajaRajeswari College of Engineering and Mr.Nizar, COMED KARES, Bengaluru in the venue of Technoxian 2023- World Robotics Championship



45 countries participated in the Technoxian 2023- World Robotics Championship



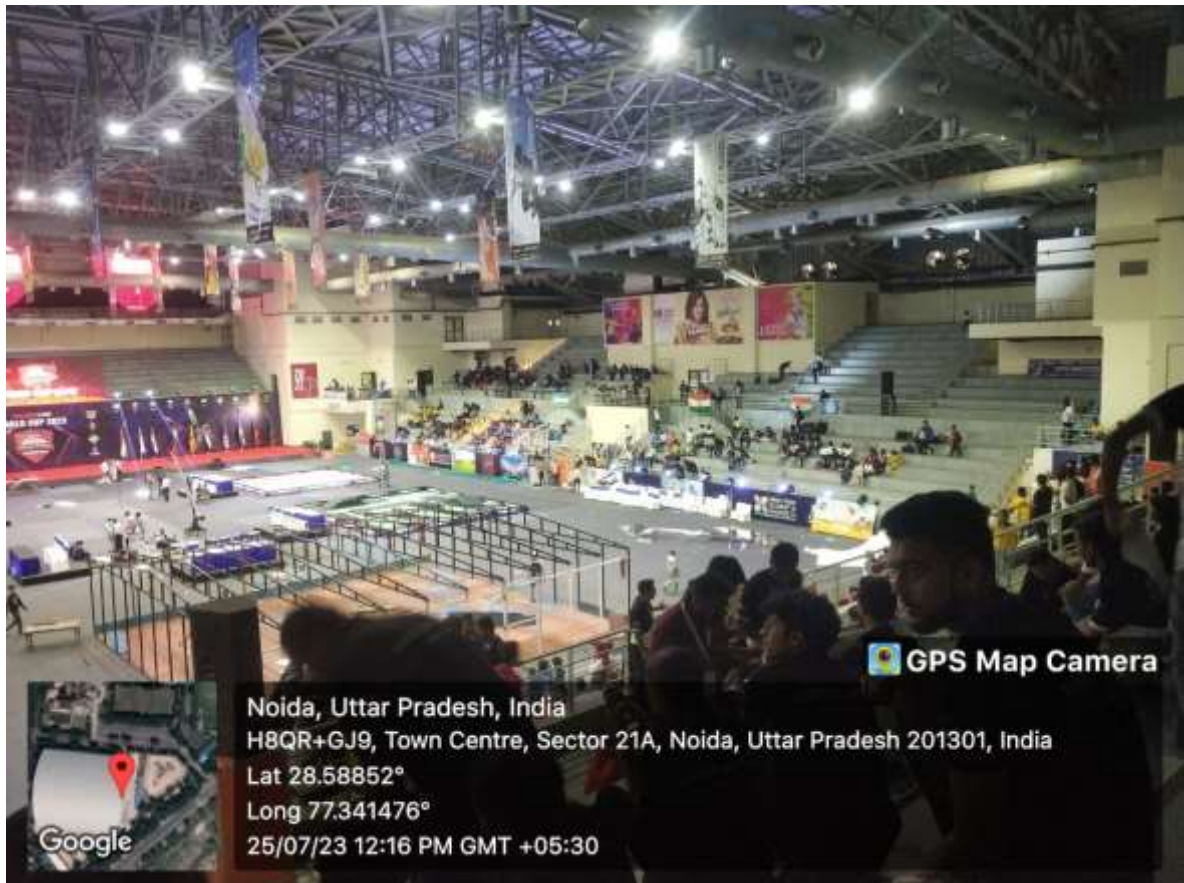
Venue of Technoxian 2023- World Robotics Championship



The Staff coordinator and students (Team A and B) registered for the Technoxian 2023- World Robotics Championship



The staff coordinator and students (Team C) registered for the Technoxian 2023- World Robotics Championship



Noida Indoor Stadium, New Delhi Technoxian 2023- World Robotics Championship



Team A students participated in ROBO Soccer during Technoxian 2023- World Robotics Championship



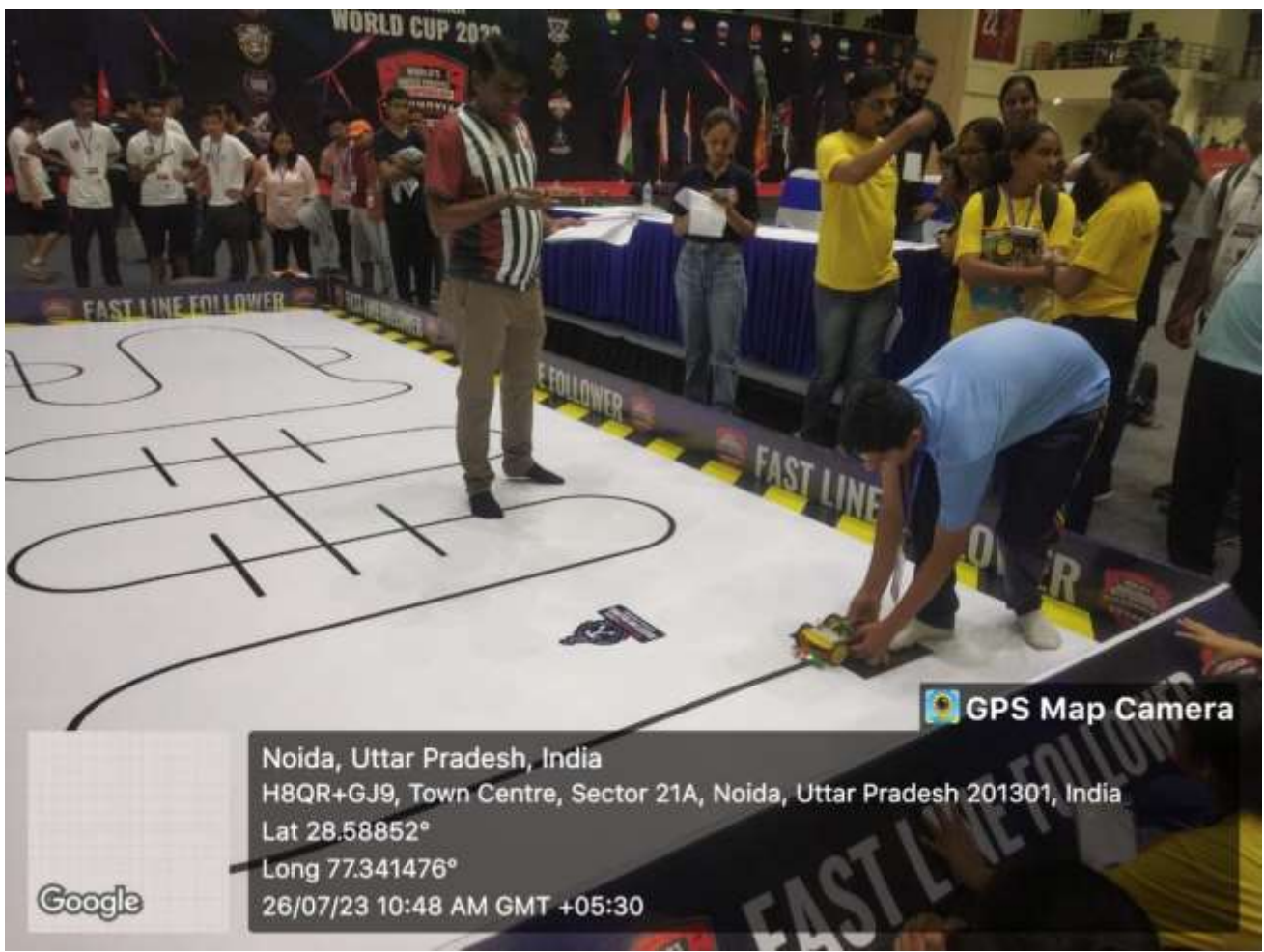
**Students participated in ROBO Race during
Technoxian 2023- World Robotics Championship**



**Students participated in ROBO Race during
Technoxian 2023- World Robotics Championship**



Students participated in ROBO SOCCER during Technoxian 2023- World Robotics Championship



Students participated in Line follower ROBO during Technoxian 2023- World Robotics Championship



Team A students with participation certificates of Technoxian 2023- World Robotics Championship



Team B students with participation certificates of Technoxian 2023- World Robotics Championship



Team A and B students with participation certificates of Technoxian 2023- World Robotics Championship



Team C students with ROBOT Technoxian 2023- World Robotics Championship

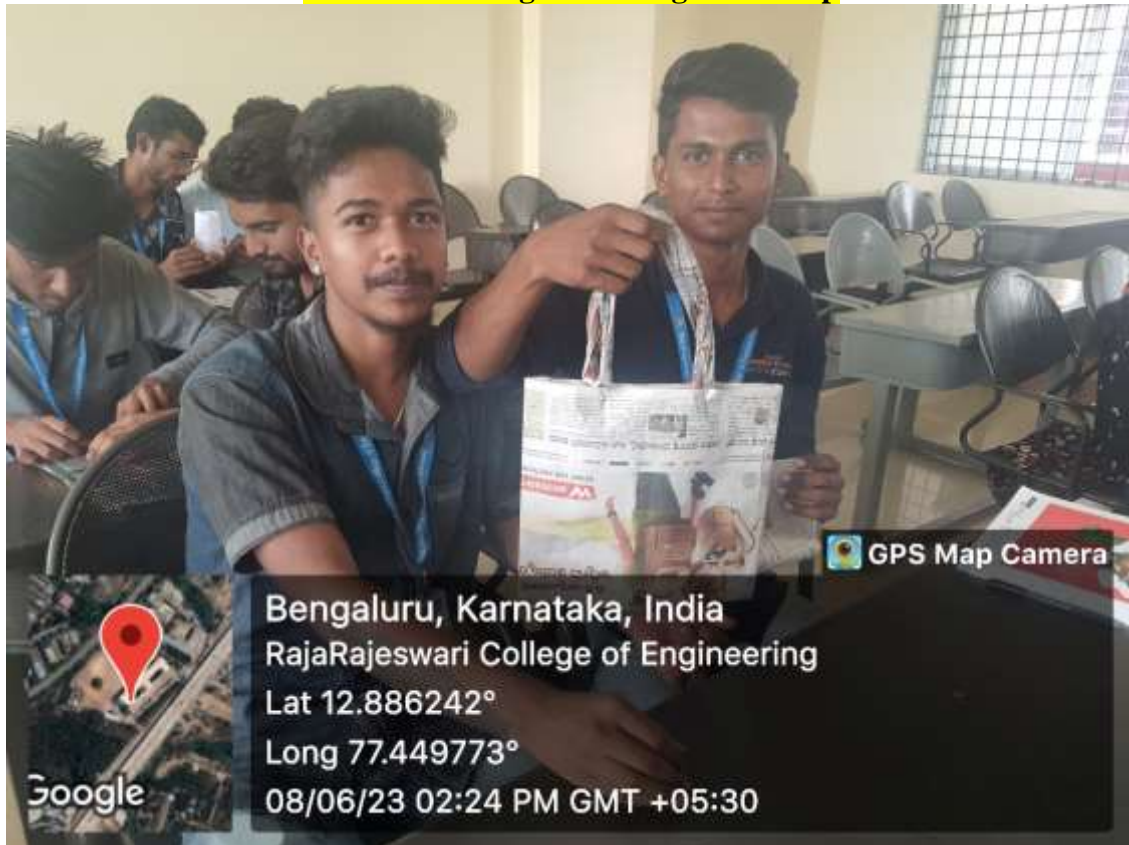


4th Semester students of the Department of Robotics and Automation are participated in RC Car Racing in the RV College of Engineering, Bengaluru and got 2nd Prize, 3rd Prize, 4th Prizes.



Ms. Jeevika.D.K (1RR21RA009) and Ms.Nisanka Mansi Chandran (1RR21RA016) acted as volunteers at SAEINIDA, Software Depend Vehicle (SDV) conference 2023 held in Bengaluru on 11th August 2023

Innovation Design Thinking Workshop



2nd semester students of the Department of Robotics and Automation has participated in the IDT workshop held on 8th June 2023



2nd semester students of the Department of Robotics and Automation has participated in the IDT workshop held on 8th June 2023



2nd semester students of the Department of Robotics and Automation has participated in the IDT workshop held on 8th June 2023



1st prize winners Mr.Tanzeem (1RR22RA028), Mr.Kanishk J (1RR22RA011) during the IDT workshop of 2nd-semester students of the Department of Robotics and Automation are honored with the gift by Dr Ebby Darney ,HOD EEE and Dr.M.Karthikeyan, HOD RA



2nd prize winners Mr.Likith K, (1RR22RA013) and Mr. Yuvaraj S (1RR22RA03) during the IDT workshop of 2nd-semester students of the Department of Robotics and Automation honored with the gift by Dr Ebby Darney ,HOD EEE and Dr.M.Karthikeyan, HOD RA



3rd prize winners Hemanth P (1RR22RA008) and Uday L D (1RR22RA029) during the IDT workshop of 2nd-semester students of the Department of Robotics and Automation honored with the gift by Dr Ebby Darney,HOD EEE and Dr.M.Karthikeyan, HOD RA

Sports And Cultural

Department of Robotics and Automation students won the second prize in the Football during the GALA DAY-(Sports Competition) held on 26th January 2023. Mrs.Ragini Prajwal, Cine Actress, Dancer and Model & Dr. R. Balakrishna, Principal gave the prize to the students on 24th June 2023 during the Annual Sports and Cultural Meet 2023.



Ms.Spoorthi J, 1RR22RA026 for winning 2nd Prize in chess competition during the GALA DAY-(Sports Competition) held on 26th January 2023. Mrs.Ragini Prajwal, Cine Actress, Dancer and Model & Dr.R.Balakrishna, Principal gave the prize to the student students on 24th June 2023 during the Annual Sports and Cultural Meet 2023.



GPS Map Camera

Bengaluru, Karnataka, India

DEPARTMENT OF R &A,RRCE

Lat 12.886242°

Long 77.449773°

13/02/23 03:43 PM GMT +05:30

1st year students of the Department of Robotics and Automation won the second prize in Volleyball during the GALA DAY-(Sports Competition) held on 26th January 2023. Dr. M. Karthikeyan, HOD-RA and Prof.K.S.Madhu, Mentor congratulated the students.

The editorial committee of the Department of Robotics and Automation Newsletter

Newsletter Head and Compiler

DR.M.KARTHIKEYAN, PROFESSOR AND HEAD

Staff Co-Ordinators

DR.VISHWANATH K C, ASSOCIATE PROFESSOR

DR.N.SREENIVASALU REDDY, ASSOCIATE PROFESSOR

DR.SATHEESHA V, ASSOCIATE PROFESSOR

Student Co ordinators:

MS. NISANKA MANSI C, 1RR21RA016

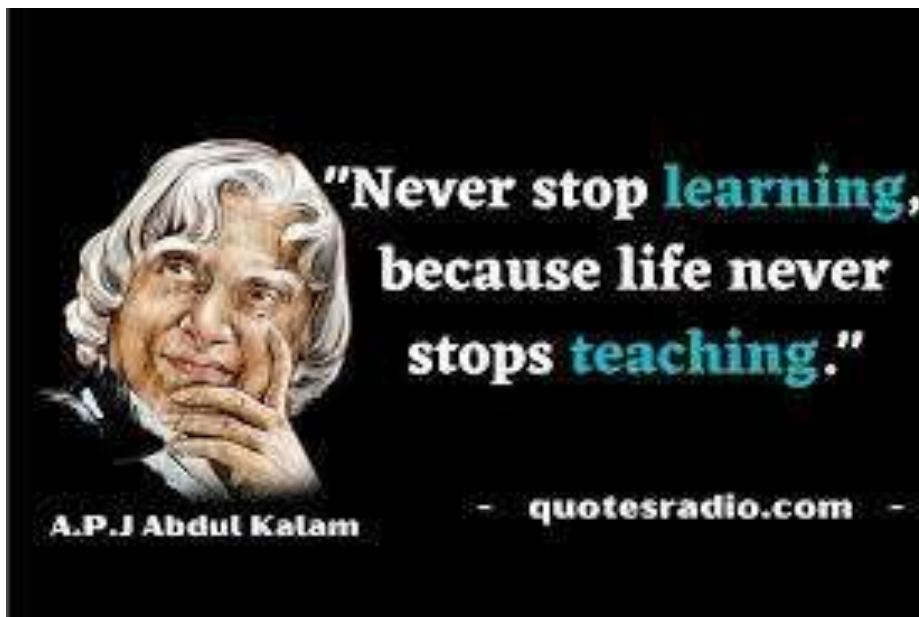
MR. LOHITH M R, 1RR21RA011

MS.NITHASHREE, 1RR21RA017

MS.BHUMIKA HS , 1RR21RA003

MR. TANZEEM 1RR22RA028

MR. JAFFER A, 1RR22RA010



Department of Robotics and Automation

**RajaRajeswari College of Engineering
#14, Ramohalli Cross, Kumbalagodu,
Bengaluru-560074.
Karnataka.**

Mail id: hodra@rrce.org

**➤ Newsletter compiled by
DR.M.KARTHIKEYAN
PROFESSOR AND HEAD
Department of Robotics and Automation**

- *****