



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: 1

CYBORGS 2022 -2023

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Principal

Dr.R.Balakrishna, Ph.D.,
RajaRajeswari College of Engineering

Head of the Department

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

We express our utmost gratitude to the Management, 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.

Robotics and Automation program is aimed at the Plan, Design, Construct, 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 Technology in Robotics and Automation -4 Years.



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



Robo Simulation



5 Axis 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 inauguration**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 C	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	1RR22RA0	TANZEEM	Executive member
7	1RR22RA0	JAFFER	Executive member

Staff Incharge: Prof.Radhakrishna R K

Academic Toppers in the Even Semester of the Academic Year 2021 -2022

Visvesvaraya Technological University examinations June / July 2022

2nd Semester Class Toppers



The students of the Department of Robotics and Automation of RajaRajeswari College of Engineering Ms.Jeevika D K 1RR21RA009 has secured 88.9% & 1st Rank in class, Ms.Nithya B 1RR21RA018 has secured 87.3% & 2nd Rank in class, Ms.Viha Trupthi.S.Pandit 1RR21RA022 has secured 86.8% & 3rd Rank in class, Ms. Nisanka Mansi Chandran 1RR21RA016 has secured 85.6% & 4th Rank, Ms.Bhumika H S 1RR21RA003 has secured 81.2% & 5th Rank, in the 2nd Semester Visvesvaraya Technological University examinations. All secured first class with distinction. The students are honored with the Merit certificate by the Principal Dr.R.Balakrishna and HOD R&A Dr.M.Karthikeyan.

Department of Robotics and Automation

Academic Toppers in the Even Semester (2nd Sem) of the Academic Year 2021 -2022

Ms.Jeevika D K, 1RR21RA009 Department of Robotics and Automation got secured 1st Rank with 88.9% (First Class with Distinction) of marks in the 2nd semester, VTU examinations held during June / July 2022. She is honoured with the Merit certificate by the Principal Dr. R. Balakrishna and HOD R&A Dr.M.Karthikeyan.



Ms.Nithya B 1RR21RA018 Department of Robotics and Automation got secured 2nd Rank with 87.3% (First Class with Distinction) of marks in the 2nd semester, VTU examinations held during June / July 2022. She is honoured with the Merit certificate by the Principal Dr. R. Balakrishna and HOD R&A Dr.M.Karthikeyan.

Academic Toppers in the Even Semester (2nd Sem) of the Academic Year 2021 -2022

Ms.Viha Trupthi.S.Pandit 1RR21RA022 Department of Robotics and Automation got secured 3rd Rank with 86.8% (First Class with Distinction) of marks in the 2nd semester, VTU examinations held during June / July 2022. She is honoured with the Merit certificate by the Principal Dr.R.Balakrishna and HOD R&A Dr. M. Karthikeyan.



Ms. Nisanka Mansi Chandran 1RR21RA016 Department of Robotics and Automation got secured 4th Rank with 85.6% (First Class with Distinction) of marks in the 2nd semester, VTU examinations held during June / July 2022. She is honoured with the Merit certificate by the Principal Dr. R. Balakrishna and HOD R&A Dr.M.Karthikeyan.

Academic Toppers in the Even Semester (2nd Sem) of the Academic Year 2021 -2022

Ms.Bhumika H S 1RR21RA003 Department of Robotics and Automation got secured 5th Rank with 81.2.6% (First Class with Distinction) of marks in the 2nd semester, VTU examinations held during June / July 2022. She is honoured with the Merit certificate by the Principal Dr.R.Balakrishna and HOD R&A Dr.M.Karthikeyan.

Department of Robotics and Automation Association logo

Academic Toppers in the Even semester (2nd Sem) of the Academic Year 2021 -2022

Visvesvaraya Technological University examinations June/July 2022

2nd Semester Class Toppers

CLASS TOPPER
IN VTU 2ND SEMESTER EXAMS HELD DURING
JUNE / JULY 2022



Ms.Jeevika D K
1RR21RA009
88.9%
1st Rank



Ms.Nithya B
1RR21RA018
87.3%
2nd Rank



Ms.Viha Trupthi.S.Pandit
1RR21RA022
86.8%
3rd Rank



Ms. Nisanka Mansi Chandran
1RR21RA016
85.6%
4th Rank



Ms.Bhumika H S
1RR21RA003
81.2%
5th Rank

Congratulations

All Secured First Class with Distinction

The students of the Department of Robotics and Automation of RajaRajeswari College of Engineering Ms.Jeevika D K 1RR21RA009 has secured 88.9% & 1st Rank in class, Ms.Nithya B 1RR21RA018 has secured 87.3% & 2nd Rank in class, Ms.Viha Trupthi.S.Pandit 1RR21RA022 has secured 86.8% & 3rd Rank in class, Ms. Nisanka Mansi Chandran 1RR21RA016 has secured 85.6% & 4th Rank, Ms.Bhumika H S 1RR21RA003 has secured 81.2% & 5th Rank, in the 2nd Semester Visvesvaraya Technological University examinations. All secured first class with distinction.

Faculty Knowledge Enhancement during the Academic Year 2022 -2023

Dr.M.Karthikeyan, Professor and HOD, Department of Robotics and Automation Engineering delivers the inaugural address during the Karnataka Science and Technology Academy (KSTA) sponsored Five days online workshop on “Robotics and Automation” organized by the Department of Electronics and Communication, Dr.Ambedkar Institute of Technology, Bengaluru on Monday, 8th August 2022.



Dr.M.Karthikeyan, Professor and HOD, Department of Robotics and Automation is with Dr.S.Ramesh, HOD-ECE of Dr.Ambedkar Institute of Technology during the inaugural function of the Karnataka Science and Technology Academy (KSTA) sponsored Five days online workshop on “Robotics and Automation” organized by the Department of Electronics and Communication, Dr.Ambedkar Institute of Technology, Bengaluru on Monday, 8th August 2022.

Department of Robotics and Automation

Faculty Knowledge Enhancement during the Academic Year 2022 -2023

Dr.M.Karthikeyan, Professor and Head, Department of Robotics and Automation, Dr. C.Ramesh, Professor and Head, Department of Mechanical Engineering and Prof.Radhakrishna R K, Assistant Professor, Department of Mechanical Engineering have visited FANUC India Academy, FANUC India Pvt. Ltd, 41A, Electronics City, Hosur Road, Bengaluru, Karnataka 560100 on Wednesday, 01st March 2023.



Dr.M.Karthikeyan, Professor and Head, Department of Robotics and Automation, Dr.C.Ramesh, Professor and Head, Prof. Praveen Kumar S P, Prof.Radhakrishna R K of Department of Mechanical Engineering have visited to RV College of Engineering on Friday, 03rd March 2023

Faculty Knowledge Enhancement during the Academic Year 2022 -2023

Dr.M.Karthikeyan, Professor and Head, Department of Robotics and Automation, visited to Sri Ramakrishna Engineering College on Saturday, 11th March 2023.

Department of Robotics and Automation

Faculty Knowledge Enhancement during the Academic Year 2022 -2023

Dr M Karthikeyan HOD R&A with the resource person Dr. Manikandan Pounraj Head, Centre of Excellence in Automation, School of Engineering and Technology, Christ University, Bengaluru

Faculty Knowledge Enhancement during the Academic Year 2022 -2023

Dr.M.Karthikeyan, Professor and Head, Department of Robotics and Automation has attended and successfully completed the One Week Online Teachers Training Program on “Introduction to Python Programming & its Applications” from 13th – 17th March 2023. This programme is sponsored by AICTE – VTU and its a Joint Teachers Training Programme.



Faculty Knowledge Enhancement during the Academic Year 2022 -2023

Dr.M.Karthikeyan, Professor and Head, Department of Robotics and Automation has attended and successfully completed the 40 hrs Faculty Development Program on “Emotional Intelligence” online live FDP from 3rd – 6th April 2023. This programme is conducted by ICT Academy.



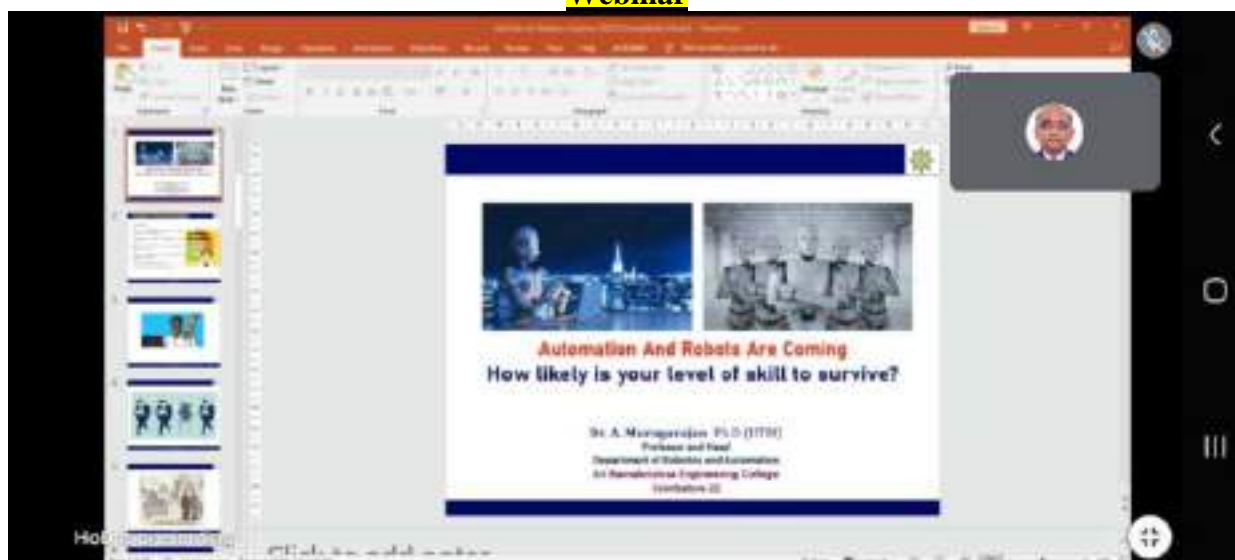
**Student participation in Co-Curricular Activities during the
the academic Year 2022-2023**



Ms. Nisanka Mansi Chandran (1RR21RA016) and Ms Viha Trupthi S Pandit (1RR21RA022) have participated in the 10th SAEINDIA International Mobility Conference 2022 from 12th to 14th October 2022 and received the appreciation certificate.




3rd Semester students of the Department of Robotics and Automation are attending the webinar on “Skill set required for the Robotics Engineers”. This webinar is delivered by Dr.A.Murugarajan, Professor and HOD, Department of Robotics and Automation, Sri Ramakrishna Engineering College, Coimbatore 641022 on 05th November 2022.

Webinar

3rd Semester students of the Department of Robotics and Automation are attending the webinar on “Skill set required for the Robotics Engineers”. This webinar is delivered by Dr.A.Murugarajan, Professor and HOD, Department of Robotics and Automation, Sri Ramakrishna Engineering College, Coimbatore 641022 on 05th November 2022.

Department of Robotics and Automation
Organizing
Webinar on
Skill set required for Robotics Engineers
Speaker




Dr. A.Murugarajan
Professor and Head
Department of Robotics and Automation
Sri Ramakrishna Engineering College, Coimbatore.

Date: Saturday, 5th November 2022 **Time: 1.30 pm to 2.30 pm**

Entrepreneurship Talk

1st and 2nd Year students of the Department of Robotics and Automation are attending the Entrepreneurship Talk on Thursday, 15th December 2022. This talk is delivered by Mr. Murulidhar K S, Founder and Director, Jatayu Staffing Force Pvt Ltd and Quantum Technic Pvt Ltd, Bengaluru.

ENTREPRENEURSHIP TALK
in association with
RRCE Entrepreneurship Development Cell



Speaker
Mr. Murulidhar K.S
Nava Parva Foundation-Founder Chairman

All are invited!!!

Date: Thrusday, 15th December 2022 Time: 1.30 pm to 3.30 pm

Add on certificate programme

2nd Year students of the Department of Robotics and Automation are attending the Add on certificate programme on “Robotics” from 26th to 30th December 2022.



Students exhibit their robot models



3rd Sem students of the Department of Robotics and Automation participated in the add-on certificate programme on “ Robotics”

Industrial Visit

3rd-semester students of Robotics and Automation visited to M/s Bharath Arts and Crafts, Channapatna, Ramnagara (Dt) on Friday, 23rd December 2022 with respect to the subject 21SCR36 SOCIAL CONNECT & RESPONSIBILITY.



Students witnessed the various handmade wooden toys at M/s Bharath Arts and Crafts



Workers demonstrated how the handmade wooden toys are produced to the students

Invited Talk

3rd-semester students of Robotics and Automation visited to RajaRajeswari Medical College and Hospital (RRMCH), Bengaluru on Friday, 6th January 2023 with respect to the subject 21SCR36 SOCIAL CONNECT & RESPONSIBILITY.



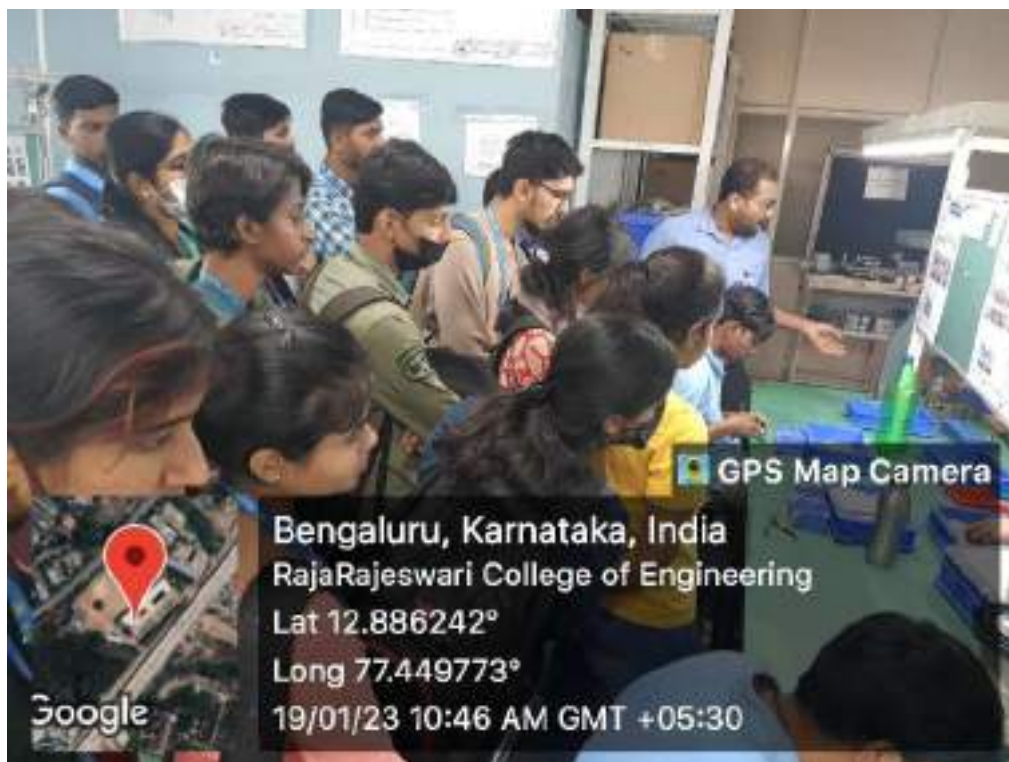
Dr Sharma D C, Chief Engineer, RRGi briefed the various waste management and water conservation facilities available in RRMCH to the students



Dr Sharma D C, Chief Engineer, RRGi briefed the how the food waste is used to produce biogas at RRMCH to the students

Industrial Visit

3rd semester students of Robotics and Automation visited M/s Spectrum Tool Engineers Pvt Ltd, No 97, Petechannappa Industrial Estate, Kamakshipalaya, Magadi Main Road, Bengaluru-560079 on Thursday, 19th January 2023.



Students observed the various process of M/s Spectrum Tool Engineers Pvt Ltd, Bengaluru.



Ms Jeevika D K (1RR21RA009) briefed the College to the industry personnel of M/s Spectrum Tool Engineers Pvt Ltd, Bengaluru

Industrial Visit

3rd semester students of Robotics and Automation visited to IMTEX 2023 on Monday, 23rd January 2023.



Students visited the IMTEX 2023






Largest Machine Tool and manufacturing technology show





19-25 January 2023
@ BIEC, Bangalore
Visit us: Hall No. 4, B163

www.seimitsu.in

Poster of IMTEX 2023

Department of Robotics and Automation

Technical Talk

1st and 3rd semester students of Robotics and Automation attended the Technical Talk – Industry 4.0 on Tuesday, 31st January 2023. Dr. Manikandan Pounraj, Head, Centre of Excellence in Automation, School of Engineering and Technology, Christ University, Bengaluru delivered the talk.




Dr. Manikandan Pounraj is honoured with a memento plaque by HOD-ME, HOD-EEE and HOD R&A



Dr. Manikandan Pounraj is briefing about the Ladder logic diagram

TECHNICAL TALK
on
Industry 4.0



Speaker
Dr. Manikandan Pounraj
Head, Centre of Excellence in Automation
School of Engineering and Technology
Christ University, Bengaluru



Students are keenly listening to the technical talk on Industry4.0

Career Development Talk

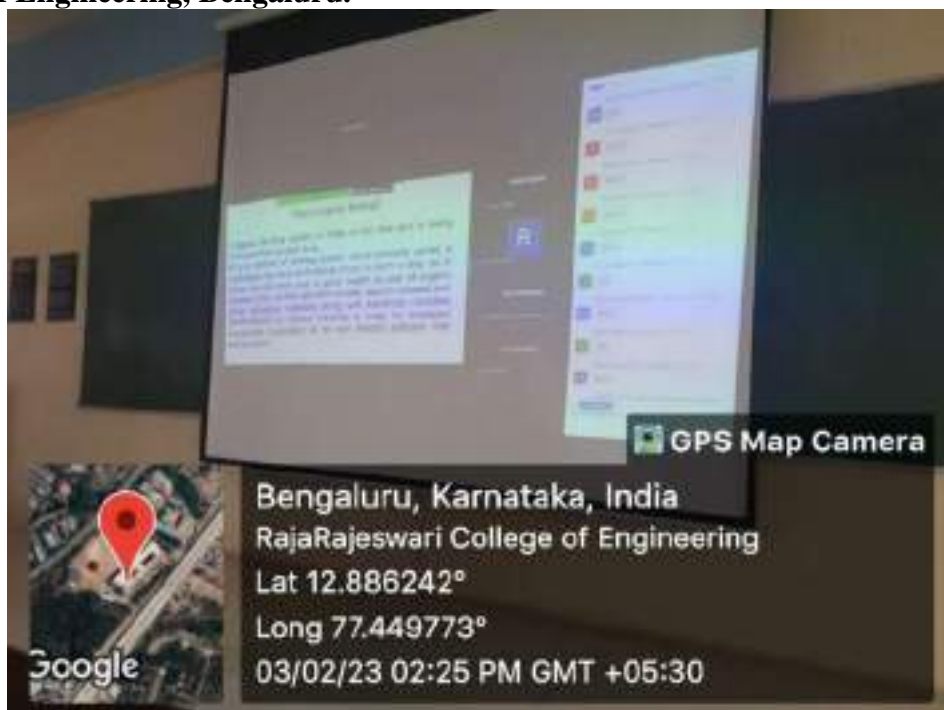
3rd semester students of Robotics and Automation attended the Career Development Talk on Thursday, 09th February 2023. The talk is delivered by Dr. Parameshwara P, Head-Training & Placement, RajaRajeswari College of Engineering.



Dr. Parameshwara P briefed the importance of pre-placement preparation

Webinar

3rd semester students of Robotics and Automation attended the Webinar on Organic Farming and Waste Management on Friday, 3rd February 2023. Mr.M.Rajesh, Assistant Professor, Co-Ordinator, Green Management Programmer, The American College, Madurai, Tamil Nadu delivered the talk. This programme is organized by the : Department of Biomedical Engineering, ACS College of Engineering, Bengaluru.



Webinar on Organic Farming and Waste Management

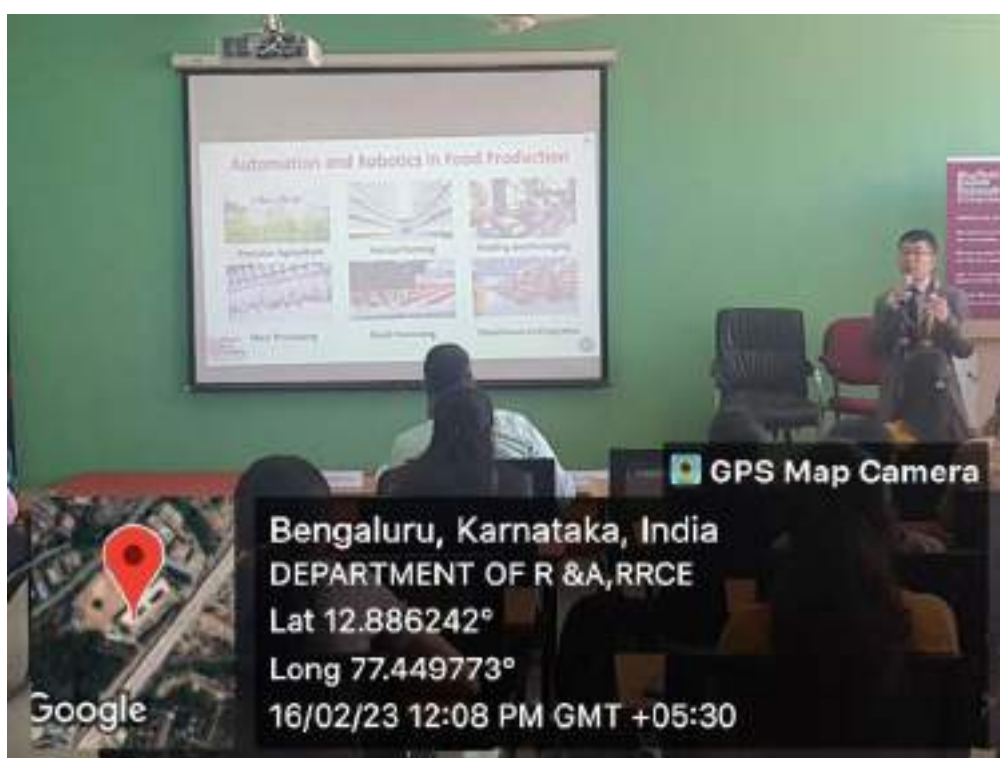
Department of Robotics and Automation

Technical Talk

1st and 3rd semester students of Robotics and Automation attended the Technical Talk – How the industrial world is embracing automation and robotics? on Thursday, 16th February 2023. Dr. Hongwei Zhang, BEng MSc PhD MIET CENG FHEA, Senior Academic in the Department of Engineering & Mathematics, Sheffield Hallam University Deputy Head, National Centre of Excellence for Food Engineering (NCEFE), Sheffield Hallam University, United Kingdom delivered the talk.



Dr.R.Balakrishna, Principal honouring Dr. Hongwei Zhang during the programme



Dr. Hongwei Zhang addressed the programme

Memorandum of Understanding

Department of Robotics and Automation has signed a Memorandum of Understanding with Code N Play Robotics, Bengaluru on Thursday, 09th March 2023.



Dr. Manikandan P, Founder, Code N Play Robotics and Principal Dr.R.Balakrishna are exchanging MoU

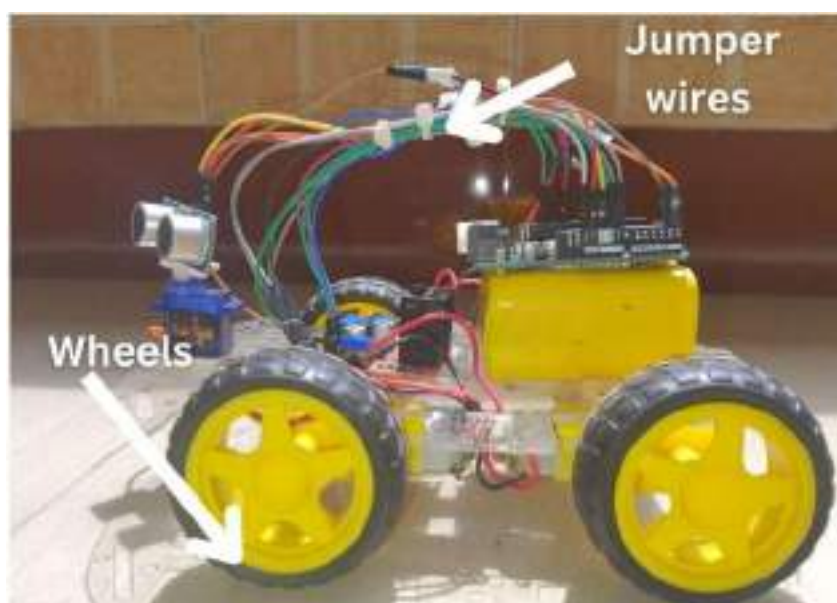


Dr. Manikandan P, Founder, Code N Play Robotics and Principal Dr.R.Balakrishna are signing MoU

Students Participation in the ROBO Exhibition



Ms.Bhumika (1RR21RA003), Ms.Nithashree (1RR21RA017) and Ms. Nithya (1RR21RA017) of 3rd semester participated and presented their model FOUR WHEEL OBSTACLE DETECTOR ROBOT USING ARDUINO during the ROBO Exhibition conducted by the Department of Mechanical Engineering & Robotics and Automation, JSS Academy of Technical Education, JSSATEB Campus, Bengaluru.



FOUR WHEEL OBSTACLE DETECTOR ROBOT USING ARDUINO

Industrial Visit

1st semester students of Robotics and Automation visited M/s FANUC India Academy, FANUC India Pvt. Ltd, 41A, Electronics City, Hosur Road, Bengaluru on 15th March 2023



Mr.Muthukrishnan G, Manager, Industry Institute Relations, FANUC India Academy briefed the various Robots manufactured by FANUC India Pvt. Ltd to the students.



Students witnessed the working of COBOT

Industrial Visit

1st semester students of Robotics and Automation visited M/s Sansera Engineering Ltd, #143/A, Bommasandra Jigani Link Road, Bengaluru. Karnataka 560105 on Saturday, 25th March 2023



Mr.Vijayendra, HR, Sansera Engineering Ltd briefed the company profile to the students



Students of 1st Semester Robotics and Automation are with Mr.Vijayendra, HR, Sansera Engineering Ltd and HOD R&A, Dr.K.C.Vishwanath, ASP, ME.

Blood Donation



Ms Viha Trupthi S Pandit (1RR21RA022) of 3rd Semester Robotics and Automation donated her blood



Ms Viha Trupthi S Pandit (1RR21RA022) and Mr. Hemanth K (1RR21RA008) of 3rd Semester Robotics and Automation received the certificate of appreciation

The editorial committee of the Department of Robotics and Automation Newsletter

Staff Co Ordinator:

DR.M.KARTHIKEYAN, PROFESSOR AND HEAD

Students Co ordinators:

MS. NISANKA MANSI C, 1RR21RA016

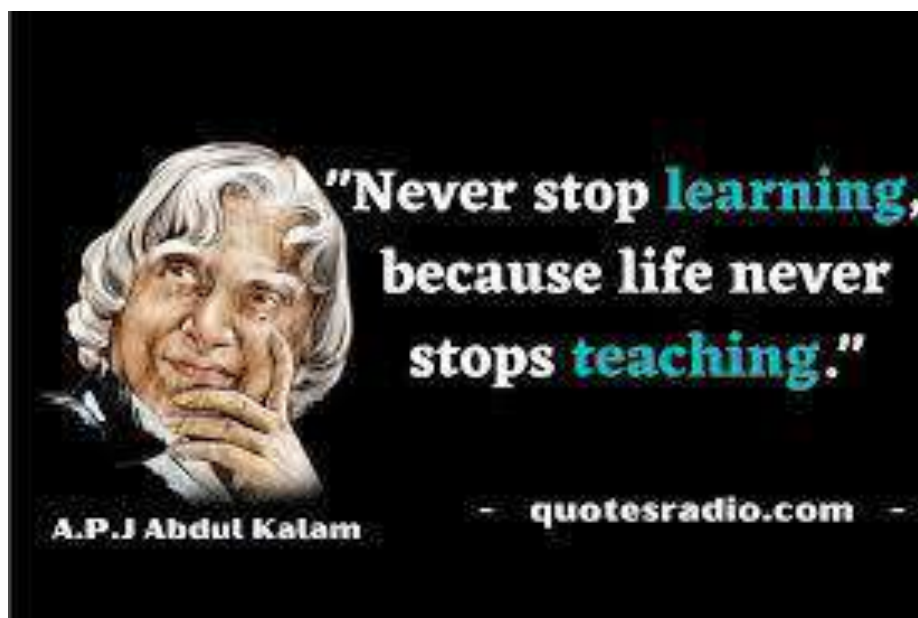
MR. LOHITH M R, 1RR21RA011

MS.NITHASHREE, 1RR21RA017

MS.BHUMIKA HS , 1RR21RA003

MR. TANZEEM 1RR22RA

MR. JAFFER, 1RR22RA0



Department of Robotics and Automation

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