

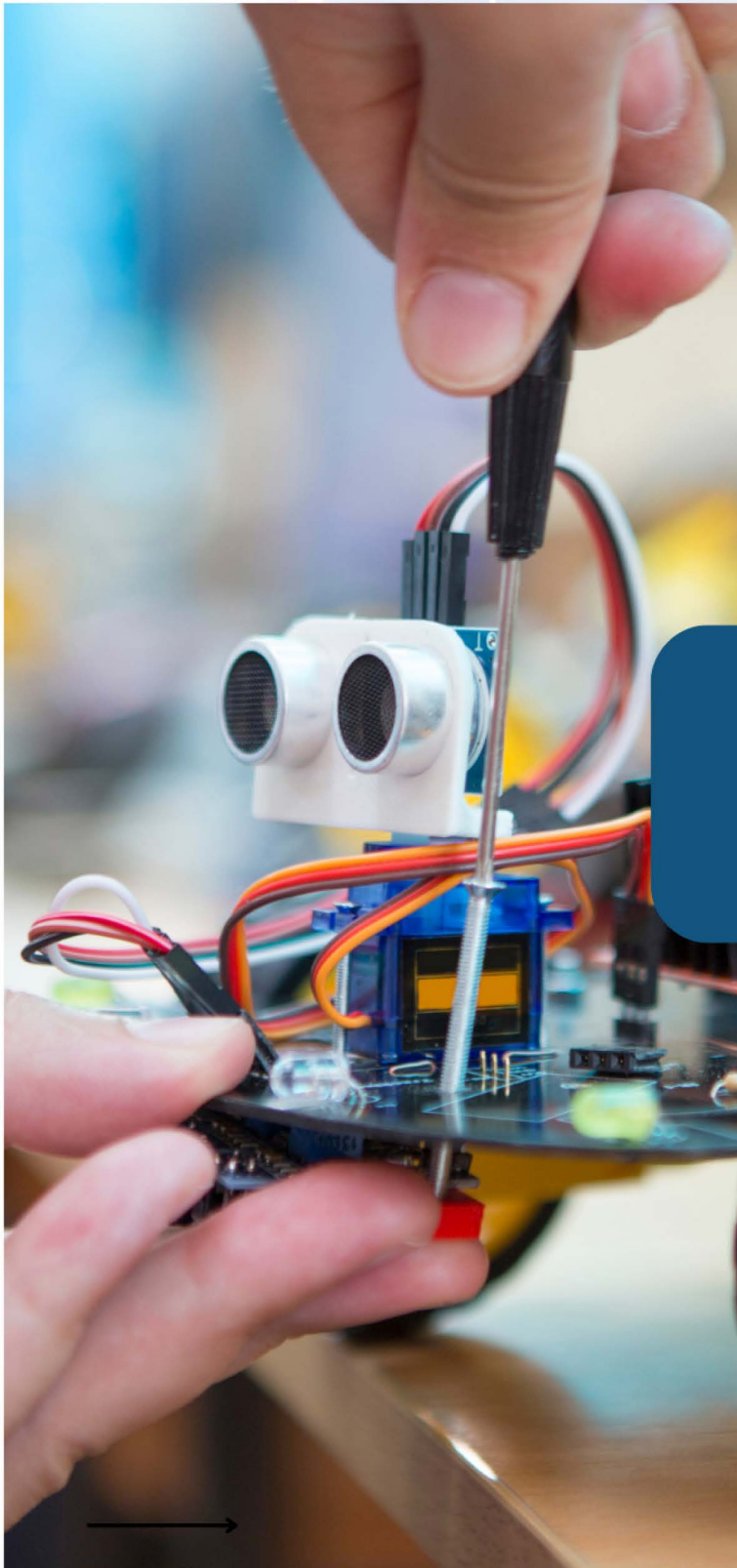
Issue 2

JUL'23 - APR'24

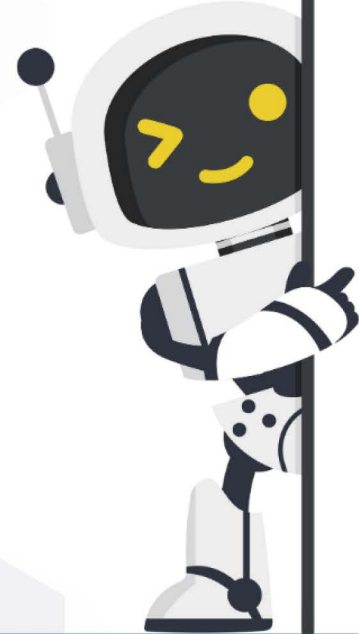
DEPARTMENT OF CSE(IOT)

Raj Kumar Goel Institute of Technology

5KM Stone, Delhi-Meerut Road, Ghaziabad



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**IOT
EDITION**

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OUR TEAM

Chief Patrons

Shri Dinesh Goel
Shri Akshat Goel

Patrons

Dr. Laxman Prasad
Dr. D.K. Chauhan
Dr. B.C. Sharma
Dr. R.K. Yadav
Dr. Ramendra Singh
Dr. Puneet C. Srivastava

Chief -Editor

Dr. Seema Malik

Editor

Ms. Deepti Gangwar

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Mr. Vivek Singh
Ms. Vaishali Rastogi
Ms. Deepika Rawat
Ms. Priyanka Singh

Student Board

Co-ordinator- Om Pant
Team- Vivek Tiwari
Kritika Singh
Divyansh Bansal
Shiksha Srivastava

INSTITUTE

Vision

To continually develop excellent professional capable of providing sustainable solutions to challenging problems in their fields and prove responsible global citizens.

Mission

We wish to serve the nation by becoming reputed deemed university for providing value based professional education.

DEPARTMENT

Vision

To create a high quality academic and research environment which empowers faculty and students to meet the needs of industry, economy, society, and environment in the field of Internet of Things.

Mission

M1. To provide the state- of the art facilities to shape the students as industry-ready IoT system development.

M2. To nurture the sense of creativity and innovation to adopt the socio-economic related activities.

M3. To promote collaboration with the reputed industries to have better careers opportunities.

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CLUBS AND SOCIETIES

MESSAGE FROM OUR MENTORS



Dr. B.C. Sharma

Director, RKGIT

I congratulate to the Computer Science & Engineering (Internet of Things) department on the release of the second issue of their newsletter, IOTVision! Your dedication and teamwork have led to remarkable successes in various areas. From excelling in academics and project work to actively participating in club activities, your students have showcased outstanding overall development.

It's inspiring to see such great achievements across the board. Keep up the excellent work, and I'm confident that your department will continue to thrive in the future!

I extend a warm greeting to all prospective students and current members of the Department of Computer Science and Engineering-IoT (CSE-IoT) at the RKGIT as well as to their parents and guardians.

Given that the majority of the students come from a variety of social backgrounds, the department has to assign them to mentors who will allow them to express themselves, share ideas, and feel at ease while they are not at home.

Our curriculum's main goals are to teach students new material, foster their ability to solve problems, and encourage their creativity in the IoT space.



Dr. Seema Malik

HOD, CSE(IoT)

FACULTY ACHIEVEMENTS



Dr. Seema Malik

- ▶ Dr. Seema Malik is AICTE Certified Master Trainer for "HPC (High Performance Computing) from March 2024 onwards.
- ▶ Dr. Seema Malik published 01 paper on the topic, "A efficient machine learning based framework for analysis and prediction of link in social media platform." in "1st International conference on computation of Artificial Intelligence & Machine Learning (ICCAIML 2024)" held at Manipal University Jaipur on date 29 Dec, 2023. (Scopus Indexed)
- ▶ Dr. Seema Malik has successfully completed 15 days FDP on "High Performance Computing" organized by AICTE & C-DAC from 5/02/2024-15/02/2024.

▶ Dr. Seema Malik has successfully completed 5 days FDP on "Embedded System Design" organized by ATAL Academy & Idea Lab at DCRUST Sponsored by AICTE from 07/08/2023-11/08/2023.

▶ Dr. Seema Malik has completed an online non-credit course, Programming in Python authorized by Meta offered through COURSERA on August 2023.

- ▶ Ms. Rashmi Tiwari has successfully completed MOOC Certification “Coursera” on “Programming in Python” on date 09.11.2023.
- ▶ Ms. Rashmi Tiwari successfully participated in the One Week Faculty Development Program on “Recent Trend in Artificial Intelligence” Organized by computer science Department and Application, Bhupal Nobles University from 22 to 27 January 2024.
- ▶ Ms. Rashmi Tiwari successfully participated in the One Week Faculty Development Program on “Emerging Techniques in AI, Data Science and Cyber Security (ETADS-2024)” Organized by computer science and Engineering, From March 18 to March 22 2024 at IMS Engineering College, Ghaziabad, UP.



Ms. Rashmi Tiwari



Mr. Azad Kumar

- ▶ Mr. Azad Kumar has published 01 patent paper on the topic, “IOT Based Smart Agriculture for Predicting Water Requirement, Live Temperature and Humidity Monitoring in Agriculture Sector using Big Data and Machine Learning” on date 06.10.2023.
- ▶ Mr. Azad Kumar has successfully completed MOOC Certification “Coursera” on “Programming in Python” on date 09.11.2023.
- ▶ Mr. Azad Kumar participated and successfully completed the 3-day Face-to-Face FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 24th August to 26th August 2023.

- ▶ Mr. Vivek Singh has successfully completed 5 days Short Term Course on “Emerging Trends in Electronics & Communication” organized by Department of ECE, Bharati Vidyapeeths college of Engineering, New Delhi from 18/07/2023-22/07/2023.
- ▶ Mr. Vivek Singh has successfully completed 5 days FDP on “Frontiers in Multidisciplinary Research” organized by Galgotias University from 16/08/2023-22/08/2023.
- ▶ Mr. Vivek Singh has successfully completed 12-week FDP on “Internet of Things” organized by NPTEL & AICTE from July 2023- Oct 2023.
- ▶ Mr. Vivek Singh has successfully completed 12-week course on “Analog Electronics Circuit” organized by NPTEL from July 2023- Oct 2023.
- ▶ Mr. Vivek Singh has successfully completed 12-week course on “Internet of Things” organized by NPTEL from July 2023- Oct 2023.



Mr. Vivek Singh

- ▶ Ms. Deepti Gangwar presented a Paper on “An Illustrative Assessment of Brain Tumor Detection with and without Augmentation Techniques” in 3rd International conference AECE-2023(Technically Co-Sponsored by IEEE), 23rd-24th Nov 2023.
- ▶ Ms. Deepti Gangwar published Conference Paper on “An Illustrative Assessment of Brain Tumor Detection with and without Augmentation Techniques” in IEEE.
- ▶ Patent Published on “Design and Development of Joint Face Detection and Alignment Using Machine Learning”, 12th Jan 2024.
- ▶ Ms. Deepti Gangwar has completed an online non-credit course, Programming with JavaScript authorized by Meta offered through COURSERA on June 2023.
- ▶ Ms. Deepti Gangwar attendant 2-days workshop on “National Education Policy 2020” for sustainable quality education from 21st-22nd July 23.
- ▶ Ms. Deepti Gangwar successfully participated in the One Week National Level Faculty Development Program on “Cloud Infrastructure (AWS)” in collaboration with Braino Vision Solutions India Pvt Ltd. And AICTE.
- ▶ Ms. Deepti Gangwar successfully Participated in the AICTE Recognized One week Faculty Development Programme on AI/ML and Data Science for Industry 4.0 (Basic Level) from 21/08/2023 to 25/08/2023 Conducted by NITTTR.
- ▶ Ms. Deepti Gangwar participated and successfully completed the 3-day Face-to-Face FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) at Raj Kumar Goel Institute of Technology, Ghaziabad from 28th December to 30th December 2023.



Ms. Deepti Gangwar

- ▶ Ms. Priyanka Singh has participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 24th August to 26th August 2023.
- ▶ Ms. Priyanka Singh has successfully completed MOOC Certification "Coursera" on "Programming in Python" on date 09.11.2023.
- ▶ Ms. Priyanka Singh successfully participated in the One Week Faculty Development Program on "Recent Trend in Artificial Intelligence" Organized by computer science Department and Application, Bhupal Nobles University.
- ▶ Ms. Priyanka Singh Successfully completed 5 days FDP on "Cloud Practitioner(AWS)" conducted by ICT Academy from 01/04/2024 to 05/04/2024.
- ▶ Ms. Priyanka Singh has successfully participated in the One Week Faculty Development Program on "Emerging Techniques in AI, Data Science and Cyber Security (ETADS-2024)" Organized by computer science and Engineering, From March 18 to March 22 2024 at IMS Engineering College, Ghaziabad, UP.
- ▶ Ms. Priyanka Singh Successfully participated in webinar on "ChatGPT in Education: Shaping the Next Generation of Scholars" organized by Department of Research & Publications, A2Z EduLearningHub LLP, India on 16th January 2024.
- ▶ Ms. Priyanka Singh Successfully has participated in the training on "Training on Data Analysis & Visualization using Tableau " organized by Department of Research & Publications, A2Z EduLearningHub LLP on 8th April 2024.



Ms. Priyanka Singh



Mr. Brijesh Mishra

- ▶ Mr. Brijesh Kumar Mishra has published 01 patent paper on the topic, "IOT Based Smart Agriculture for Predicting Water Requirement, Live Temperature and Humidity Monitoring in Agriculture Sector using Big Data and Machine Learning" on date 06.10.2023.
- ▶ Mr. Brijesh Kumar Mishra has successfully completed MOOC Certification "Coursera" on "Programming in Python" on date 09.11.2023.
- ▶ Mr. Brijesh Kumar Mishra has successfully completed 3 days FDP on "UHV-I" organized by "AICTE" at RKGIT, Ghaziabad on 28-30 Dec. 2023.

- ▶ Ms. Vaishali Rastogi completed 5 days FDP on "Cloud Practitioner(AWS)" conducted by ICT Academy from 01/04/2024 to 05/04/2024.
- ▶ Ms. Vaishali Rastogi participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) at Raj Kumar Goel Institute of Technology, Ghaziabad from 28th December to 30th December 2023.
- ▶ Ms. Vaishali Rastogi has completed an online course, Introduction of Operating System authorized NPTEL on September 2023.



Mr. Vaishali Rastogi



Ms. Deepika Rawat

- ▶ Ms. Deepika Rawat published Scopus indexed paper, Drivers Drowsiness Detection using machine learning Technique, part of CCIS, volume 2053.
- ▶ Ms. Deepika Rawat completed NITTTR FDP from 12-16 February 2024 on the topic "Wireless Network".
- ▶ Ms. Deepika Rawat participated in 10 Hours National Faculty Development Program on ChatGPT and Prompt Engineering organized by Bharati Vidyapeeth College of Engineering.
- ▶ Ms. Deepika Rawat participated in 10 Hours National Faculty Development Program on Blockchain Technology organized by Ramrao Adik Institute of Technology.

INDUSTRIAL VISITS

CDAC, Noida



The Department of CSE(IOT) organized an Industrial Visit for 3rd year students at CDAC, sector-62 Noida on 26.09.2023.

Students had informative sessions with Dr. Arti Noor, Senior Director of CDAC.

The objective of this visit was to Boost-Up the students for project-based learning in the area of E-Governance. Dr. Arti Noor talked about some projects in detail like Health Informatics (Shushusti), SWAYAM with multi-language, and One Nation One Card. She also provides information regarding the AI Project, Cyber Gyan project of Cyber Security.

Yakult, Sonipat



The Department of CSE(IOT) had organized an (05 Jan '24 and 18 Mar '24) Industrial Visit to Yakult Danone for the students of CSE(IOT) Second Year and Third Year respectively. It provide an opportunity to the IOT 3rd Year Students to learn practically through Observation, interaction, working modules of machines deployed with sensors and explore their usage in real time in Industries (Probiotic industry), so that students can get an exposure to current work practices as opposed to theoretical knowledge being taught at their college classrooms.

This industrial visit ensured following outcomes:

Opportunity to interact with Industry Experts on Real time Usage of sensors in industrial Machines.

Widen knowledge of sensor in IOT for Food Industry.

Students learned how to use sensors to control water level, to measure air quality or to evaluate how weather affects the Production and fermentation operations in Industry.

NASSCOM, Gurgaon



The Department of CSE(IOT) had organized an Industrial Visit to NASSCOM, COE, Gurgaon for the students of CSE(IOT) Second Year and Third Year on 19th April'24. This industrial visit was done so that student could learn:

Opportunity to interact with Industry Experts on Real time Usage of sensors in Medical industry & Industrial machines.

Widen knowledge of sensor in IOT for Medical Industry.

Students learned how to use sensors via projects to measure human body vitals and production values through sensors in manufacturing Industry.

Network Bulls, Gurgaon



The Department of CSE(IOT) had organized a 1-Day (07-04 Jan '23) Industrial Visit to Network Bull's for the students of CSE(IOT) Second Year. Students learnt about IP security, server connections, packet transfer and routing & network communication. Students performed hands-on on devices. They learnt to interface of various CISCO packet tracer. Training was provided by Mr. Sandeep Kumar (Cisco Certified Network Trainer) and coordinated by Mr. Surender Yadav (Training Coordinator -HR Department).

WORKSHOPS

IOTuino Workshop



The Department of CSE(IOT) had organized a 3-Days (02-04 Jan (23) Workshop on Internet of Things (IoT) for the students of CSE(IOT) Second Year. Students performed hands-on with various microcontrollers such as Arduino UNO, NodeMCU ESP8266, etc. They learnt to interface various sensors and actuators with NodeMCU and display their data on IOT Cloud Platforms. Training was provided by senior students of CSE(IOT) to their juniors. At the end of the Workshop, students were given a task to complete. Manashvi, Ajisha, Isha, Arjun, Dushyant and Adwait successfully completed the task and secured First Position in the competition.

IOT Innovate



IOTuino Club of CSE(IOT) Department had recently organized "IOT Innovate Challenge - 2 Days Workshop and Competition" for the students of CSE(IOT) on 13-14 December 2023 at RKGIT, Ghaziabad. Participants were grouped into teams, fostering collaboration and unleashing creativity. They learnt to interface NodeMCU ESP8266 with DHT11 Sensor, IR Sensor, LDR Sensor, and other similar sensors and actuators. They learnt to display sensor data on Thing Speak Cloud Platform and then faced the ultimate challenge provided by the club.

SEMINARS

Guest Lecture, Rabindra Sah



IOTuino Club of CSE(IOT) Department had organized a Guest Lecture on "Building Tomorrow: Building New Tech Landscape for Aspiring Engineers" dated 22 September 2023 for all the students of RKGIT, Ghaziabad. Mr. Rabindra Sah, Chief Engineer - Strategic Projects at Tata Technologies was Guest Speaker of the day. He delved into various crucial topics such as The Evolving Tech Landscape, Innovation & Creativity, Industry Trends and Career Pathways. Dr. Jaideep Kumar, HOD - CSE(IOT), Dr. Ashok Yadav, HOD-ME has attended this valuable guest lecture with the faculty members of their department. Ms. Deepika Rawat-Asst. Professor, CSE(IOT) extended vote of thanks to all the dignitaries, HODs, faculty members and students who gave their valuable time to attend the program.

Expert Talk, Om Pal



The department of CSE (IOT) and CSE organized an Expert talk on 20th March 2024 at 10:30 am in Seminar hall D-Block on the topic "Quantum Computing" by Dr. Om Pal, professor at Delhi University. Students and faculties of CSE (IOT) and CSE attended this talk under the coordination of Ms. Deepti Gangwar. Dr. Seema Malik and Dr. Amit Singhal took initiative to organize this event.

In this talk expert comprises various key points of Quantum computing were discussed such as below:

Quantum computing is a multidisciplinary field comprising aspects of computer science, physics, and mathematics that utilizes quantum mechanics to solve complex problems faster than on classical computers.

Quantum theory explains the behavior of energy and material on the atomic and subatomic levels.

Amrit Kaal, Viksit Bharat



Aiming to achieve the vision of honorable Prime Minister of India Shri Narendra Modi Ji and the initiative of Ministry of Education, Government of India in collaboration with AICTE, a series of seminars are organizing across the country to Discuss the transformation changes that have laid to the foundation of Vikasit Bharat by 2047.

In Continuation to this series, RKGIT, Delhi-NCR organized a Development Dialogue on 26th February 2024 on Working the New "Normal"-Opportunities and Transformation. Shri Apoorve Aggarwal, Head Service Management Practice and Rajit Sikka, Head Academic Relations India North at TCS was invited as a guest speaker in this session. It was followed by an inquisitive Question and Answer session. Around 250+ participants including students and Faculty attended the event.

DEPARTMENTAL ACHIEVEMENTS

- ▶ 3 research papers (Scopus indexed), 3 patents, 2 book chapters, and various NPTEL certification courses and workshops done by our faculties.
- ▶ Department of CSE-IOT have more than 80% faculties who have UHV (Universal Human Values) certification from AICTE.
- ▶ Department has successfully conducted 100% MOOC Certification program in collaboration with Coursera for all faculties & students.
- ▶ Department HOD have master trainer certification "High Performance Computing" by AICTE.



STUDENTS' ACHIEVEMENTS

The Department of CSE(IOT) is thrilled to announce the outstanding accomplishments of Team 'Vision Explorers' in the prestigious IEEE IC Hack 2.0.

Comprising Yuvraj Yash Garg (Team Lead) and Anshika Tiwari, both fourth-year students in the CSE(IOT) department, along with Sahil Keshari and Priyanshu Srivastava in CSE(AI/ML), this remarkable team achieved an impressive AIR 3 in the final round of the national-level hackathon. Their dedication and hard work were truly outstanding!

Their journey began with fierce competition, as they were among the top 60 teams selected from across India in the first round.



Akshat Chaudhary and Suryansh of second-year year IoT, won the gold medal in Kabaddi in AKTU sports event.

The sporty fest of AKTU was a grand celebration of sportsmanship and talent, held at RKGIT college from November 03 to November 04, 2023. The fest witnessed the participation of more than 200 students from various colleges affiliated to AKTU, competing in various sports events such as Kabaddi, Volleyball, Badminton, Chess, and more.

The fest also featured some amazing cultural performances by the students of RKGIT, such as dance, and music.

The Department of CSE(IOT) is thrilled to announce that Yashi Tyagi of CSE(IOT) Department, second-year has won many prestigious positions in various events organised by various societies and clubs in college. She is runner up in "JunkYard War" under "Shilanyas" organised by Sthapatya (Society of Civil Engineering Department) on October 1, 2023. She participated in "The Airborne Archers" organised by Pushpak-The Flying Club (under the aegis of RKG Group Of Institutions) on October 18, 2023. She also participated in "IoT Innovate Challenge- 2 Days Workshop and Competition" organised by IoTuino Club of CSE(IoT) Department. She also received appreciation as a leader in "Semester Team" event organised by Image Booster. She also participated in three days workshop on Electronics Systems Design using OrCAD - PSPice organised by the Department of Electronics & Communication Engineering with the collaboration of Entuple Technologies held from 3rd-5th January, 2024.



PLACEMENTS

Congratulations



Payal Chand



Imdadul Rehmaan



Aayush Chauhan



Anshika Tiwari



Aditya Vihan



Shivang Saini



Jitendra Sharma



Prateek Biswas



Pragya Singh



Chetanya Kumar



Nitish Kumar



Himanshu Chaudhary



Gaurav Jeena



Tinkal Kumar



Nikita Kumari



Sumit Tyagi

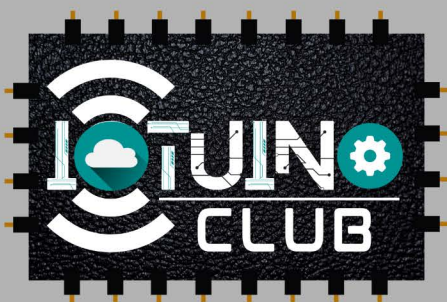


Ayush Gupta

INTERNSHIPS



CLUBS & SOCIETIES

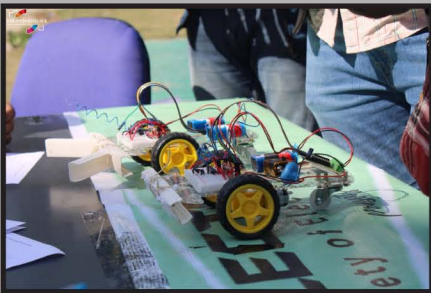


At IoTuino Club, our vision is to pioneer a transformative journey towards a future where innovation in Robotics, IoT, and Automation thrives. We aspire to cultivate a community of passionate learners and creators who are empowered to harness the potential of emerging technologies. Established with a vision to prepare students for the dynamic challenges of tomorrow, IoTuino Club stands as a beacon of innovation in the realms of Robotics, IoT, and Automation. Our club serves as a platform where students can explore, learn, and excel in cutting-edge technologies that are shaping the future. At IoTuino Club, we believe in the power of collaboration, creativity, and continuous learning. We strive to foster a culture of innovation where ideas are nurtured, boundaries are pushed, and solutions are crafted. Whether you're a seasoned enthusiast or a curious beginner, there's a place for you at IoTuino Club.

The main aim behind the making of Electrazz society was to build an environment for students in our college where they can be aware about technologies around them, and also to help them learn about various new technologies such as robotics, IoT (Internet of Things) etc. Building an environment where the students are free to share their ideas about technologies and can work on them. The aim was to share knowledge, collaborate on projects, and promote the development of solutions for various industries and challenges. The main goal of making Electrazz society was to give the students who are interested in innovations a place where they can work on their ideas and are free to share their views and have a group of people who have the same interest so that a healthy innovative environment can be created.



PICTURE GALLERY



Building the IoT Landscape: Where imagination meets technology.



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