

ROBOTECH

MONTHLY NEWSLETTER

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VISION

Progress through quality education and evolve into a centre for academic excellence in the field of Robotics and Automation.

MISSION

To provide supportive academic environment for value added education and continuous improvement.
To develop socially responsible engineers with technical competence, leadership skills

Aravam 2k22 – Onam Celebration

Celebration is a festival that creates as many waves as possible in order to awaken the soul of each individual. Onam is a festival of pride for all Keralians. However, in college, it demonstrates the unity culture and creativity of each Asietian. The second day of September 2k22 begins with a blissful morning. The campus is decorated with flowers, posters, and other items. The entrance is adorned with a large Onapukkalallam depicting Vallam Kali. Cultural programmes are held at each stage. Cultural dance, Spoon Race, and Kudam Pottikkal are among the events held. The Vadam Valli and Kottu are the main programmes. At Noon, everyone is refreshed with pallada payasam. It evokes the festival mood and enthusiasm.

Vadam Vali, otherwise called pull o' war is a game that specifically sets two groups against each other in a trial of quality. The game of pull of-war has a long history. The teams start with the rope's centre directly above a line marked on the ground. Roaring spectators cheer the teams standing on the side of their favourite team. Once the contest (the "pulling") has commenced, each team tries to pull the other team to their side. The team that successfully pulls the opponent to their side crossing the centre line will be declared as winners. It showcases the unity, power and strength.

Kottu makes the evening the most touching and thrilling moment by blowing his hand along with the rhythm of the chenda and the rhythmic artist. Melam is the most popular instrumental music form in Kerala. The ensemble is led by a chenda expert. His place is in the middle. He communicates with other chenda artistes in a unique way in order to play according to the rules and make the melam most beautiful. Theyam, kavady combined to make the melam more rhythmic and tends the soul of each Asietians to make steps.



The students' cultural dress codes enhance the beauty of the campus. The colour smoke causes the air to dance. The day ends with cooperation, unity, and the reinforcement of our department's sense of love, tolerance, and understanding.

NEW HEAD OF THE DEPARTMENT

Prof. Sreedeeep Krishnan has been appointed as the new Head of Department – Department of Robotics and Automation with effect from 15th September 2022.



PUBLICATION OF S1 2021-25 BATCH RESULTS

Kerala technological University B tech 2021-25 btach results were published on Sept 16th 20211. The toppers of Btech S1 Robotics and Automations 2021- 25 batch are

1. Don Kurian Davis- 9.47 CGPA
2. Aswin A Laiju- 9.24 CGPA
3. Anan Ali Sha- 9.06 CGPA

CONGRATULATIONS TO TOPPERS



Don Kurian Davis



Aswin A Laiju



Anan Ali Sha

INVITED TALK ON “ROBOTIC MANIPULATORS: AN OVERVIEW”

Ms. Megha G Krishnan was invited as resource person to handle a session on “Robotic Manipulators: An Overview ” for the Faculty Development Program “Advances in Technology for Interdisciplinary Research” by Universal Engg College.



FACULTY TRAINING PROGRAM ON FUSION 360

Faculty of Robotics and mechanical engg. Department attended a faculty training program on 14th July 2022. The session was handled by Rajeesh M and Jishnu S of BIMIT CAD and BIM Training services, Autodesk Certified Instructors.



GLITZ AND GLITTERATI WITH ASIET

A fashion show event was organized in ASIET at Central Courtyard on 14th Sep 2022 at 3:30pm. 30 students were pre-selected from ASIET and were accoutered with free make-up, dress, etc. It was a selection round for a mega event.



SECOND INTERNAL ASSESSMENTS

The second Internal assessment for S2 students was conducted on 22nd, 25th and 26th of July 2022. The second Internal assessment for S2 students was conducted on 22nd, 25th and 26th of July 2022

UNIVERSITY EXAMINATIONS

The KTU University Examination for S2 students of Robotics and Automation Engineering was held from 11th to 30th August 2022. The KTU University Examination for S4 students of Robotics and Automation Engineering was held from 23th August to 16th September 2022 .

FACULTY ACHIEVEMENTS

Paper publication

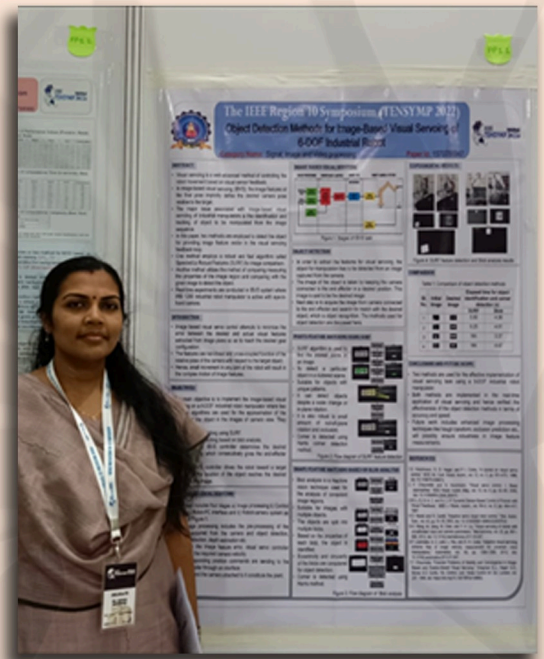
Vinila M L, “Comparative study of different modelling strategies for the dynamic design of Cumene Reactor in Cumene production process”, Journal of the Indian Chemical Society, Elsevier,

Conference

A paper titled, “Object detection Methods for Image-Based Visual Servoing of 6-DOF Industrial Robot” was presented by Mrs. Megha G Krishnan in the IEEE Region 10 Symposium TENSYP-2022, organised by IEEE Bombay Section at VMCC, IIT Bombay, India held during 1st – 3rd July 2022.

Faculty Development Program

Mrs. Anju Mary Joseph ,has participated in a two-week Online workshop on “Machine learning, Deep learning and Computational intelligence for wireless Communication (MDCWC2022): Module -I” held between 30th May to 10th June 2022 conducted by NIT Thiruchirappalli.



LATEST DEVELOPMENTS IN ROBOTICS AND AUTOMATION

iRobot Crams Mop and Vacuum Into Newest Roomba

Robots tend to do best when you optimize them for one single, specific task. This is especially true for home robots, which need to be low cost(ish) as well as robust enough to be effective in whatever home they find themselves in. iRobot has had this formula pretty well nailed down with its family of vacuuming robots for nearly two decades, but they’ve also had another family of floor care robots that have been somewhat neglected recently: mopping robots.

Today, iRobot is announcing the US \$1,100 Roomba Combo j7+, which stuffs both a dry vacuum and a wet mop into the body of a Roomba j7. While very much not the first or only combo floor-cleaning robot on the market, the Combo j7+ uses a unique and very satisfying mechanical system to make sure that your carpets stay clean and dry while giving your hard floors the moist buffing that they so desperately need.

While iRobot is now best known for its vacuums, a decade ago Scooba floor cleaning robots were right up there with Roombas as a focus for the company, featuring tanks for cleaning solution and dirty water and combining vacuuming and scrubbing for non-carpeted floors.

Flying 3D-printing robots modelled after wasps and birds may one day repair and build structures at remote sites beyond the reach of standard construction teams, a new study finds.

Construction robots that can 3D-print structures on sites may one day prove faster, safer, and more productive than human teams. However, construction robotics currently focuses mostly on ground-based robots. This approach is limited by the heights a robot can reach, and large-scale systems that require tethering to a power supply are limited in where they can be deployed.

In the new study, researchers drew inspiration from flying animals that are highly adept at construction. For instance, to incrementally build its nest, a barn swallow can overcome the limited payload it can carry in one flight by typically making some 1,200 trips between where it gets its construction material and its construction site.

Ref: <https://spectrum.ieee.org/robotics>

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