

# RIT NEWSLETTER

OFFICIAL NEWSLETTER OF RIT, KOTTAYAM  
THE ANNUAL 2024-25



**Rajiv Gandhi Institute of Technology**

GOVT. ENGINEERING COLLEGE KOTTAYAM

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY)



## Message from **Principal**



**Dr. Prince A**  
*Principal, RIT Kottayam*

Rajiv Gandhi Institute of Technology (RIT) Kottayam, established over 34 years ago, stands as a pillar of excellence in engineering and technology education. Offering a variety of undergraduate, postgraduate, and research programs, RIT has consistently contributed to shaping skilled professionals who excel in their fields. The institute's modern facilities, experienced faculty, and focus on innovation and research make it a hub of academic excellence.

RIT's student-centric approach goes beyond textbooks, emphasizing experiential learning, entrepreneurship, and skill development. By fostering creativity, critical thinking, and social responsibility, the institute aims to produce well-rounded individuals ready to make meaningful contributions to society and the global community.

This newsletter reflects the collective efforts of RIT's students, faculty, and staff, highlighting key accomplishments and initiatives that continue to propel the institute forward. With a strong tradition of nurturing innovation, leadership, and academic excellence, RIT is committed to shaping a brighter future through education.

**Dr. Prince A**

## Achievements



Dr. Binumol Tom



Dr. Anish Babu P.V.



Dr. Michael George



Dr. Peter K. Abraham



Dr. Meera Khalid



Dr. Sreelekha V



Dr. Archana A.P



Dr. Raji R Pillai



Dr. Shibu Kumar K B

• **Dr. Binumol Tom**, Professor & Head of Architecture Department, has been selected as the AICTE Nominee to the Council of Architecture for the 2024-2027 term and BOG member at the School of Architecture (SPA) Bhopal for the 2025-2030 term. She also serves as the Technical Coordinator of the National Aptitude Test in Architecture (NATA) and Publishing Committee of COA.

• **Dr. Anish Babu P.V.**, Head of the Physical Education Department, has been selected as a National Games Football Official.

• **Dr. Michael George**, Assistant Professor in the Department of Electronics and Communication Engineering, has been granted an Indian Patent for his invention, "**A System and Method for Abnormal Activity Detection Using Autoencoding and Parallelepiped Spatio-Temporal Region.**" This invention enhances automated video surveillance by improving abnormal activity detection with greater computational efficiency.

• **Dr. Peter K. Abraham**, **Dr. Meera Khalid**, and **Dr. Sreelekha V**, Assistant Professors in the Electrical and Electronics Department,

were awarded Ph.D. from APJ Abdul Kalam Technological University.

• **Dr. Archana A.P** Assistant Professor in Architecture Department was awarded Ph.D. in Building science from Building technology and construction management division - IIT Madras.

• **Dr. Raji R Pillai**, Assistant Professor in the Computer Science Department, earned her Ph.D. from IISc Bangalore, and **Dr. Shibu Kumar K B**, also an Assistant Professor in the Department, obtained his Ph.D. from CUSAT.

• Team RIT Kottayam secured victory in the APJ Abdul Kalam Technological University Inter Zone Table Tennis (Men) Championship 2024-25.



• Team Mavericks won the Champions Title and the Best Innovation Award in the SAE Efficycle Competition (Effi-Que ADAS Segment).



Team MAVERICKS

• Three new M.Tech courses have been approved at RIT for the academic year 2024-25: Robotics & Artificial Intelligence (ECE), Electric Vehicle Technology (EEE), and Data Science (ME).

• APJ Abdul Kalam Technological University Team & Kerala State Team Representatives:

1. Hanna Sajan (S1 EEE) - Badminton
2. Sai Krishna (S5 ECE) - Table Tennis
3. Jibin Babu (S4 ME) - Table Tennis
4. Naveen (S1 MCA) - Football
5. Devika Jayadev (S5 EEE) - Karate
6. Gopika Ajith (S1 EEE) - Roller Sports
7. Arsha Ann Roy (S4 CSE) - Handball
8. Anna Grace Abhram (S4 CSE) - Handball (Reserve)

### University Team & Kerala Team Representatives



**Hanna Sajan**  
(S1 EEE)



**Sai Krishna**  
(S5 ECE)



**Jibin Babu**  
(S4 ME)



**Naveen**  
(S1 MCA)



**Devika Jayadev**  
(S5 EEE)



**Gopika Ajith**  
(S1 EEE)



**Arsha Ann Roy**  
(S4 CSE)



**Anna Grace Abhram**  
(S4 CSE)

*“Excellence is a continuous process and not an accident”*

**A. P. J. Abdul Kalam**

## Batch Toppers 2024



**Navami M**  
CSE  
CGPA : 9.72



**Annu Mary Roy**  
ECE  
CGPA : 9.63



**Mohammed Faiz**  
EEE  
CGPA : 9.55



**Keerthi Krishna**  
CE  
CGPA : 9.36



**Bhaviram A S**  
ME  
CGPA : 9.04



**Sangeeth P George**  
MCA  
CGPA : 9.03



**Laya Sunil**  
Architecture  
CGPA : 8.61

## Placements 2024

The Placement Drives for 2024-25 featured prominent companies such as Shobha Constructions, Tarento, Mitsogo, Geodis, DCT, Cognizant, Electrifix, Vanenburg, L&T, Waalaps, UST Global, Ignitarium, IBM, and Litmus 7, spanning from July 2024 to January 2025. So far, a total of 65 students have secured placements across various companies.

Tarento recruited 25 students with a package of 4.25 LPA, while Geodis hired seven students with a package of 7 LPA. Keyvalue and Rappit each recruited one student with an 8 LPA package, and IBM Software Lab placed three students at 8 LPA. Sobha Constructions offered the highest package of 13.7 LPA to four students. Other recruiters included DCT, Mitsogo, Electrifix, Cognizant, G10X, IBM CIC, L&T, Ignitarium, and Waalaps, with packages ranging from 4 LPA to 6.1 LPA.

The placement season continues under the guidance of Placement Cell Officer Dr. Ebin M Manuel, providing students with diverse opportunities across multiple domains.

## Course Completion Ceremony 2020-2024

The course completion ceremony for the B. Tech 2020-2024 batch was held on 09-09-24.



*Course Completion Ceremony  
2020-2024 Batch*

## News from RIT Alumni

Various activities were conducted by the association in the past one year.

The main highlights include:

- **1999 Batch reunion, named MILAN 2024**

The silver Jubilee reunion of 1999 batch Milan - 2024 was organised on 3rd of August 2024 at the college auditorium. Dr. Ashalatha Thampuran, Former Principal inaugurated the function. The whole batch handed over a cheque of Rs.11 Lakhs to the college Principal for the development of RIT. Also, they handed over one projector for RITAAN, one interactive TV to the ME dept, the plaque showing the current details of their batch members and the souvenir.



As a pre-event of Milan 2024, an industry interaction with the current batch of students also took place on 2nd of August collaborating with the RIT CGPC. Eminent Alumni from the various fields of Industry interacted very effectively with our students. 1999 batch has contributed computer systems and projectors to various departments.

- Talks by expert Alumni in the Alumni connect and Back to Campus Initiative.

- Sponsorship for Programmes held at RIT

Sponsorship of Rs 3,42,000 was offered in the year 2024. The major sponsorship offered by the association include:

- KELI
- REX at RIT
- FCUBE Football Fans Forum RITAAN
- Donation of books to central library RIT

In the Loving memory of Manoj John (2002 EC) 2002 EC Alumni contributed an amount of Rs.12,000 for the purchase of books for preparing for GATE/PSU examination.

- AGB 2024 held on 21/12/2024, which is a comprehensive event with wide range of activities. The event featured Award Distribution and Scholarship Distribution.



*Inauguration of RITAAN - AGB Meeting  
by Dr. V P Joy IAS*

## News from PTA

- PTA of RIT has funded for the following activities

- Advance paid for organizing Uyama 1.0 Conclave and for trainings, workshops, seminars, and conferences aimed at faculty development.

- Payments for affiliation and approval charges for the AICTE and Technical Education Regulatory (TER) bodies

- Expenses for quality control verification or audits, ensuring compliance with the required standards.

- Advance payments for electricity, water, and other utility expenses for the institution's operations.

- Costs associated with maintaining communication services for the college.

- Costs for repairing and replacing essential infrastructures like electrical equipments, plumbing, and air conditioning units.

- Cleaning services and maintenance around the campus and hostel areas.

- Construction of safety fencing around the badminton court.

- Admission processes for various programs.

- NSS Activities.

## News from Clubs and Forums

### RIT Staff Welfare Club

RIT Staff Welfare Club has been very active in organizing various events to promote community engagement and wellness.

• **Onam Celebration:** The club celebrated Onam with a variety of cultural programs. A Khadhi Fest was also organized as a part of the celebrations.



• **Staff Sports Meet:** A sports meet was conducted to encourage physical activity and team spirit among staff members.



*Staff sports meet*

• The RIT Staff Cricket Team took part in the All Kerala Inter-College Staff Cricket Tournament, which was hosted by Sree Narayana Institute of Technology Adoor on February 1st and 2nd 2025.



*Staff cricket team*



*Staff football team*

• **Medical Camp (17/12/2024):** A medical camp was organized for staff members to promote health and wellness, providing access to medical checkups and health advice.

• **Science Book Fest:** In collaboration with Kerala Sasthra Sahithya Parishath, the staff club organized a science book fest.

• On December 20th, the staff club organized a Christmas celebration for its members, featuring a carol singing competition and a crib-making competition.

• **Music Club:** The staff club runs a music club that holds musical programs every Friday, allowing staff members to enjoy and engage in cultural activities.

• On 31st March 2024, the staff club of RIT organized a farewell event for the retiring staff.

### Nature Club

#### E-bird: Campus Bird Survey

RIT Kottayam became a member of the Global e-bird count in 2022. In association with the eBird and Bird Count India the bird survey of RIT campus was done with the help of an expert birder Sri. Pradeep Kumar from 6.30 am to 8.30 am on 14-02-2025. Principal Dr. Prince A, Dr. Nithin Raj (FIC Nature club), Praveena Vasudevan (CA), Linto Jose (First Grade instructor, EEE) and 8 students participated in the survey. 20 different species were identified and more than 70 birds were seen.



### Malinya Muktha Nava-Keralam Initiatives

As part of the Malinya Muktha Nava-Keralam initiative, RIT Kottayam, in collaboration with Pampady Panchayath, proposed solid and liquid waste management projects. The Panchayath approved a liquid waste management system under the plan fund, with DPR preparation led by KRWSA following site visits in February 2025.

A committee for Malinya Muktha Nava-Keralam was formed at RIT Kottayam on 10-09-2024 to oversee the green protocol. Additionally, a gap analysis team, as per directives from Higher Education and KTU, collected and submitted details on the college, two men's hostels, and three ladies' hostels on 20-12-2024 with assistance from wardens and the sergeant.

### Activities and Initiatives as a part of Malinya Muktha Nava-Keralam

The institute is having adequate measures for collection and separation of the solid waste. Classrooms, staff rooms, office and common areas are having waste bins. The PT/FT sweeper are removing the separated waste and handing over to Haritha karma sena and paper to third parties. In addition to create awareness among students and staff various initiatives are in progress.

1. Purchase of 13 numbers of 80lit waste bin with don type lid. Procurement completed on 11-2-2025

2. Installation of bottle booth in the campus with the help of Pampady Panchayath and Kottayam district panchayath.

3. Installation of display board near main gate, pen booth in library and posters at various locations of campus are in progress.

### NSS RIT

The activities of NSS Unit at RIT are diverse and impactful, covering a variety of community service and awareness programs. The key initiatives include

#### Hospital Maintenance (Taluk Hospital, Pampady):

- Tasks: Cleaning and painting of equipments.



#### Palliative Patient Relative Meetup (03/02/2024):

- Collaboration: Anickadu Gramapanchayat and Snehasparsham at Sacred Heart Public School.

#### Road Safety Workshop (13/02/2024):

- Collaboration: NATPAC
- Focus: Road Safety awareness, conducted for volunteers from various colleges.

#### Harithakarmasena Meetup:

- Venue: Community Hall, Pampady
- Focus: Community participation in environmental and social initiatives.

#### ARDHAM - Rudhirasena Regional Meet (02/03/2024 and 03/03/2024):

- Activities: Ice-breaking sessions and a talk

on drug-free campaigns by Mrs. Asha from excise office pampady.

### Surveys Conducted:

- Goods vehicles, taxi, and auto drivers/operators survey for NATPAC and KSCSTE.
- Household survey to raise awareness about energy conservation.

### Independence Day Celebrations:

- Flag hoisting by Dr. Prince A.
- Quiz competition on Independence Day.

### Republic Day Celebrations

### Volleyball Court Cleaning:

- Contribution to the maintenance for AARAVAM 24, the Intra College Sports Fest.

### NSS Camp Highlights:

- Flag hoisting by Induja S (Program Officer).
- Official inauguration by P.V. Reju (Vazhoor Panchayat President).
- Activities included: Snehamam project, ice-breaking session by Prof. Adhil Naseer, Christmas crib setup, carol walk, old-age home visit, Nakshathra Jalolsavam finale participation, and a session on energy conservation by Vazhoor KSEB engineers.

## IEEE SB RIT

The IEEE Student Branch (SB) at RIT continues to shine as one of the most dynamic branches within the IEEE Kerala Section, having established a reputation for fostering technological innovation, leadership development, and skill enhancement. Throughout 2024, the branch organized a variety of events that engaged students across diverse disciplines, resulting in significant recognitions, including the **IEEE Regional Exemplary Student Branch Award** and the **Outstanding Student Branch Award** from the IEEE Kochi Subsection.

## Key Highlights

### Annual General Meeting (AGM)

Held on March 2, 2024, the AGM showcased the branch's achievements over the past year and welcomed the newly elected executive committee.



**Insightify Newsletter:** The launch of the first edition of the IEEE SB RIT newsletter, Insightify, was a major milestone, serving as a medium for sharing updates, articles, and key events within the branch.

### Workshops and Skill Enhancement

IEEE SB RIT organized a series of workshops throughout the year to boost the technical skills of participants:

- **PeerPro Mentorship Programme** (June 28 - July 31): Focused on hands-on training in Python, JavaScript, Photoshop, React, and Premiere Pro.
- **GitHub Mastery Workshop** (April 27): Taught participants about version control and repository management.
- **Web Development Workshop** (July 5, IEEE Day 2024): Introduced school students to HTML, CSS, JavaScript, and backend technologies.

### Flagship Events

- **Robotics Experience Program (REX) 5.0** (Dec 18-20): Organized by IEEE RAS SBC RIT, REX attracted numerous participants and facilitated interactions with industry experts.

- **TechFuse 2024** (Feb 8-9): The inaugural IEEE SPS SBC RIT event brought together 100+ attendees for technical workshops and online sessions.



### Empowering Women in Technology

- **Roboleading Women** (March 16): Focused on inspiring women to pursue opportunities in robotics.
- **Tech Trailblazers** (April 2): Aimed to empower women in corporate careers.

### Technical Workshops and Sessions

- **Deep Learning Workshop**
- **Cybersecurity and Ethical Hacking Session**
- **Circuit Forge Workshop** (March 15): Focused on hands-on Arduino programming for beginners.
- **ArduiQuiz**
- **8051 Microcontroller Workshop**

### Professional and Industry Exposure

- **IEEE IAS Distinguished Lecture** (Aug 8): Focused on Power Management in Electric Vehicles.
- **Wheels of Progress Session** (April 16): Shared insights from Team Motorage's E-Baja competition.
- **CAMP'24** Career Preparation Series Organized by IEEE IAS SBC RIT, this three-part series provided invaluable advice and resources for career preparation.

### Achievements and Recognition

In 2024, several of IEEE SB RIT's affiliated societies earned significant recognition:

- **IEEE RAS SBC RIT**: Secured **\$12,190** under the IEEE RAS Technical Education Programme.
- **IEEE SPS SBC RIT**: Received the Outstanding Student Branch Chapter Award.
- **IEEE PES SBC RIT**: Received the Outstanding Student Branch Chapter Award.
- **IEEE SPS SBC RIT**: Was awarded a **\$3,000** Chapter Initiative Grant.
- **IEEE WiE AG RIT**: Two members received the IEEE WiE Scholarship.
- **Blesson Tomy**: Honoured with the Outstanding Student Volunteer Award.

### ISTE RIT

#### ISTE SC RIT: A Year of Innovation, Learning, and Growth (2024-2025)

The ISTE Student Chapter at RIT enjoyed a vibrant and productive year, offering a diverse array of events designed to enhance students' technical skills, professional development, and overall learning experience. From introductory workshops to state-level meets, the chapter provided valuable opportunities for growth and engagement.

#### Kicking Off Careers & Exploring Disciplines:

The year began with ELEVATE, a KEAM orientation program guiding prospective engineering students through career paths and industry demands. Freshers were warmly welcomed and introduced to the ISTE community through the fresher's welcome programme. Career-focused events like the resume building online session and the LinkedIn Session provided practical skills for navigating the professional world.

The chapter also delved into specific

technical fields with events like the Astro TalkSession on Chandrayaan-3 and India's space missions, and the Cyber Security Talk Session raising awareness about online safety.



### Hands-on Learning & Technical Expertise:

A strong emphasis on practical skills was evident in the numerous workshops offered. Students gained hands-on experience with industry-standard softwares like AutoCAD, ANSYS, Proteus, MATLAB, and Flutter through dedicated workshops.

The Gen AI Workshop explored the advancements of Artificial Intelligence, while the Blockchain Technology Talk Session demystified this complex technology. The chapter also fostered design thinking with the Designathon poster competition.

The competitive spirit was alive with events like the Astro Quiz 2024, the E-Football Tournament, the Sci-Fi Story Writing Competition, and the Bridge Making Competition.

### ATOM 2024: A Flagship Event:



The highlight of the year was undoubtedly ATOM 2024, a two-day technical and cultural extravaganza. Featuring idea pitching, workshops, expert talks, cultural performances, and even a mentalism show, ATOM 2024 was a melting pot of innovation and entertainment. An industrial visit to Pampady substation provided valuable real-world exposure.

### Connecting & Collaborating:

The chapter also played a key role in fostering collaboration and networking. CONNECT'25, a state-level ISTE EXECOM meet, brought together ISTE members from across Kerala to share best practices and strategize for the future.

### A Year of Success:

The ISTE SC RIT's activities throughout the year reflect its commitment to provide a holistic learning experience for students. The chapter looks forward to continuing this tradition of excellence in the coming years.

### UDYAMA 1.0

The Directorate of Technical Education, Kerala hosted UDYAMA 1.0, aiming to foster collaboration, skill development, innovation, and entrepreneurship by bridging the gap between academia and industry. As a part of this many pre conclave events were conducted at RIT.



*Inauguration function UDYAMA 1.0*

**Various Activities Conducted as Part of UDYAMA 1.0**

**SDG-4:** State-level inauguration of pre-conclave activities - 21 Aug 2024

**SDG-13:** Seminar on "Kerala's Development Amidst Climate Change" by Dr. Muralee Thummarukudy - 21 Aug 2024

**SDG-9:** Seminar on "From Ideas to Infinity" by Group Captain Babu Joseph - 21 Aug 2024

**SDG-7:** Expert talk on "Affordable Clean Energy - Powering the Sustainable Future" - 23 Aug 2024

**SDG-9:** Out-of-the-Box Idea and Innovation Challenge - 26 Sept 2024

**SDG-13:** Poster design competition on "Climate Change and Mitigation" - 27 Sept 2024

**SDG-13:** Technical talk on "Climate Change Mitigation and Adaptation Strategies" - 27 Sept 2024

**SDG-6:** "Reconnecting Our Water Roots" - Canal Revitalization at Manjoor - 07 Oct 2024

### Achievements

RIT received the institute award for organizing the best program under the SDG-13 Climate Action category, as well as for its efforts in innovation and sustainability during the pre-conclave events of Udyama 1.0.

## SHE RIT

SHE (Scheme for Her Empowerment in Engineering Education), is an initiative aimed at enhancing the technical talent of women and is being implemented in engineering and polytechnic colleges across the state.

### SHE RIT Initiatives

#### Python Training:

SHE RIT conducted Empowering Women Through Python, a comprehensive training led by Asst. Prof. Pillai Praveen Thulasidaran, offering students hands-on coding experience.

### Space Museum Visit:

To promote gender equality in the space industry, students visited the Space Museum, Thiruvananthapuram, and Priyadarshini Planetarium, gaining insights into ISRO's contributions. They also met the WESAT team at LBS Institute, Trivandrum.



### Women's Day Celebration:

SHE RIT celebrated വെമ്ന on March 18, 2024, raising awareness about women's dignity and empowerment. Activities included Mingle Masters, self-identity games, open discussions on #InspireInclusion, and a talk by Pegasus trainees.

### Yoga Event:

As part of Udyama 1.0 Conclave, SHE RIT hosted a Yoga Healing and Deeper Body Experience workshop led by Shweta Rajurkar from Auroville, featuring holistic healing techniques and interactive discussions.

## MoUs

This year, RIT has signed MoUs with Nhaz Systems Pvt. Ltd. in Bangalore, The National Institute for Rubber Training under the Rubber Board in Kottayam, Kerala Electrical and Allied Engineering Co. Ltd.(KEL) in Mamala, Kochi.



MoU between RIT and KEL

**IEDC RIT****Basics of Game Development Workshop** (14 March 2024)

This workshop introduced 52 students to game development, covering industry trends, game engines, and development processes, ending with a Q&A session.

**Campus Startup Talk Session** (15 March 2024)

Arun Eldho Alias, CEO of RENVOLT Energy Solutions, discussed campus startup methods, success stories, funding opportunities, and market trends, engaging students in an interactive session.

**C Programming Workshop** (17 April 2024)

This session focused on C programming fundamentals and problem-solving, helping 37 participants to strengthen their coding skills.

**Ideathon** (25 July 2024)

This event encouraged students to present innovative ideas to a panel, promoting creativity, teamwork, and entrepreneurial thinking.

**Bootcamp on Pinnacle Leadership** (2 August 2024)

Conducted at GHSS Meenadom, this bootcamp focused on leadership, teamwork, and entrepreneurial skills, engaging 50 students in interactive activities.

**Bootcamp on Artificial Intelligence** (6 August 2024)

Held at MGM High School, Pampady, 53 students learned about machine learning, neural networks, and data analytics through lectures and hands-on sessions.

**Quantum Computing Talk Session** (8 August 2024)

This session covered quantum mechanics fundamentals and real-world applications in quantum computing.

**Lead and Elevate Bootcamp** (9 August 2024)

Conducted at PTM Govt HSS, this leadership bootcamp included interactive workshops and team-building exercises focused on communication, problem-solving, and entrepreneurship.

**Business Plan Competition** (15-16 August 2024)

An online event organized by IEDC VISAT & IEDC RIT, where 10 teams (22 students) developed and presented business plans to enhance creativity and strategic thinking.

**Eureka - One Day Bootcamp** (23 August 2024)

Held at VISAT Engineering College, this bootcamp featured workshops on EV mechanics, 3D modeling, marketing, financial storytelling, and Photoshop skills.

**IEDC Orientation 2024** (26 September 2024)

An introductory session at RIT for first-year students, covering IEDC's mission, project funding, mentorship, and entrepreneurship opportunities.

**USE LESS Project** (1-2 November 2024)

A Make-a-thon at RIT aimed at developing sustainable, resource-efficient solutions to real-world environmental challenges.

**Plug In - Arduino Workshop** (31 Jan - 1 Feb 2024)

A hands-on workshop at RIT's ECE Lab, introducing students to embedded systems and microcontroller programming.



## SAE RIT

The Society of Automotive Engineers (SAE) is a global platform promoting engineering excellence in automotive, aerospace, and commercial vehicle industries. SAE RIT, the official student chapter of SAE-INDIA at Rajiv Gandhi Institute of Technology, has been active since April 1, 2011, offering students opportunities to develop technical expertise, leadership skills, and industry knowledge.

During the 2024-2025 academic year, SAE RIT organized technical events, workshops, and national competitions, achieving commendable results. Workshops on CATIA, Ansys, Adobe Photoshop, and Python provided hands-on experience. Teams excelled in national competitions like E-Baja, Electric Two-Wheeler Design, Bicycle Design Challenge, and Drone Development, securing All India Ranks and awards for innovation.

The chapter encouraged project-based learning, enabling students to design and manufacture vehicles, drones, and bicycles. Their success in inspections, rankings, and awards reflected their engineering excellence. With strong faculty support and enthusiastic participation, SAE RIT continues to foster innovation, teamwork, and leadership.

The programs and activities conducted by the current Executive Committee are:

- 1) Fresher's orientation
- 2) Tier Events
- 3) Catia Workshop
- 4) Ansys Workshop
- 5) Adobe Photoshop Workshop
- 6) Python Workshop
- 7) EFFICYCLE 2025 Orientation
- 8) BAJA 2025 Orientation
- 9) Farewell of 2022-23 batch executive committee

## Competitions by SAE INDIA

### E-Baja-2025

Team **MOTORAGE** successfully designed and built their own all-electric off-road vehicle, passing the mechanical technical inspection on their first attempt and securing a high score against experienced teams.



Team MOTORAGE

### Bicycle Design Competition 2024

Team **NOVA** secured **AIR 15** and won Best Manoeuvrability, while Team **DRAIZ** secured **AIR 18**, both excelling in performance and technical tests.



Team NOVA

### Drone Development Challenge 2024

Team **AQUILA** (Micro Class) reached Phase 2, secured **AIR 19** and 3rd place in Kerala. Team **AIRHAWKS** (Regular Class) secured **AIR 27** and won Best Computational Fluid Dynamics (CFD) Analysis.

## Electric Two-Wheeler Design Competition-2025

Team **ARAGORNZ** secured **AIR 20** for innovative, efficient design, while Team **REGENS** secured **AIR 34**, integrating safety features like helmet detection and accident-response sensors.

## Centre of Excellence @ RIT

Workshop on Strategic Plan Preparation for Research Activities at the Centre of Excellence on Emerging Materials and Infrastructure



Workshop was held on 31st of August 2024 at RIT Campus. The workshop was conducted at the following themes such as sustainable materials, Renewable Energy materials, Communications and connected society, and Materials 4.0.

The mentor of the centre Prof. Gin Jose of University of Leeds lead the discussion. Eminent researchers from India and abroad who work in the area of materials research attended the workshop as resource persons. Faculty members of the affiliated institutions of KTU were the participants.

## News from College Union

### SHE FEST 2024

On behalf of Dheeraj College Union and RIT Kottayam, SHE FEST was organized for the first time in the history of RIT under the leadership of lady representative, to make the female students aware of their rights and to create a space for themselves in the society. Film star and cultural activist Smt. Gayathri Varsha inaugurated the program.

The program was presided over by the college Principal Dr. Prince A and welcomed by lady representative Ms. Aswatheertha. A talk show on and menstrual cup distribution were held as part of SHE Fest. To awaken the artistic talent and taste of the students, a talent show and musical program were also organized.

### MENSTRUAL CUP DISTRIBUTION 2024

Under the leadership of Dheerajam College Union 23-24 and Lady Representative, a Menstrual Cup Distribution Drive was organized in the campus to promote hygiene and awareness among female students during menstruation. The cups were sponsored by SBI Pampady branch in accordance with their CSR initiative project. 252 menstrual cups were distributed at the event.



### KELI 2024

The Arts Fest of RIT Kottayam, Keli 2024 was held on October 8, 9, and 10. Gowsal Nasar was selected as the co-ordinator of Keli, and Aswatheertha and Prabhav Narayan were selected as the joint co-ordinators. The whole campus was divided into five groups named Pakalattam, Parakalam, Perumkali, Perumbara and Padavettu.

Keli's off-stage competition took place on October 3rd and 4th. The on-stage programmes began with a procession. Competitions were held in five stages namely Gaza, Ramallah, West Bank, Rafah, and Palestine.

At the end of an excellent competition of five groups, Team Parakalam (S7 CSE, S7 CE, S3

ME, S3 BARCH, S1 EEE, S1 CE) lifted the Keli Winners title. Elvis Jacob Ajay (S7 CSE) was selected as the Kalapratibha and Hana.P (S5 BARCH) was selected as the Kalathilakam.



*KELI'24 Champions*

The Keli, which thrilled the hearts of the audience, concluded with a closing ceremony and a proshow on October 10.

## KELI'24 Gallery



## News from Departments

### Department of Electronics and Communication Engineering

- Dr. David Solomon George took charge as Head of Electronics and Communication Department from September 2024 onwards.
- A new M.Tech course on Robotics and Artificial Intelligence started with a sanctioned intake of 18 students.
- Dr. Michael George, Assistant Professor, Department of Electronics and Communication Engineering was granted an Indian patent.
- Department of Electronics and communication engineering organized a workshop on Robotics and AI for the faculties on 15 July 2024. The focus of the workshop was on Matlab tools for artificial intelligence and robotics. Dr. Pranav Lad, Senior Engineer from Mathworks led the Workshop



*Workshop on Robotics and AI*

- Annu Mary Roy was the topper of the 2020-2024 ECE batch with a CGPA of 9.63.
- Department runs a consultancy project of 'LED lamp repairing and estimation of CCTV' under the guidance of Dr. AnilKumar C.D, Professor ECE.

- A terrace vegetable garden was established by the department in accordance with Sustainable Development Goal 15 (Life on Land).



*Terrace vegetable garden*

- An Expert Talk on Mobile Robotics, was conducted for the S2 M.Tech (Robotics & Artificial Intelligence) on 14-02-2025. The resource person for the talk was Prof. Chinn Mohanan, Assistant Professor, Department of Electronics Engineering, Saintgits College of Engineering, Pathamuttom, Kottayam.

- As part of Alumni interaction with students, Mr. Addul Manaf F Software Engineer at Bobble AI led the talk on Computer Vision and Artificial Intelligence.

- **Prominence** is an annual techno-cultural fest organized by the Department of Electronics and Communication Engineering. Since its inception in 2019, the fest has aimed to showcase the latest trends and developments in electronics, communication, robotics, and artificial intelligence while promoting innovation and collaboration among students, faculty, and industry partners.

On March 21 and March 22, 2024, the Association of Electronics & Communication Engineering (ECE) and Robotics & Artificial Intelligence (RAI) hosted **PROMINENCE 2024**.



*Robots from INKER Robotics on Prominence 24*

- RIT Staffs Welfare Club and Department of Physical Education jointly organised the Staff Sports Meet on 20/1/2025 and the ECE department grabbed the Champions Trophy.



*Staff Sports Meet Champions*

## Department of Electrical and Electronics Engineering

- The department currently offers a B. Tech programme in Electrical and Electronics Engineering and three M. Tech programmes,

## 1. Industrial Drives and Control 2. Power Systems and Renewable Energy and 3. Electric Vehicle Technologies.

- 2020-2024 B.Tech Electrical and Electronics Engineering batch secured an overall 75.71% pass in the APJ KTU Exam 2024.
- First Place in the KTU C Zone Badminton Tournament Team Members: Anuraj (S7 EEE) and Hanna Sajan (S1 EEE). Special appreciation to Devika Jaydev who secured second in AIU South West Zone Inter University Karate Championship.
- Sreya Balu of S7 EEE selected as a funded participant to IES Student and Young Professional Congress 2024, Hyderabad.



- Nihara Dinesh (S1 EEE) - C-Zone Basketball Women's Runner-Up.
- Nidhin N (S3 EEE) - Secured 4th place in the APJ KTU Zonal Basketball Competition.
- Alfiya Shukkoor, Brine Susan Saju, Tesilit (S3 EEE) - Secured 2nd prize in SAE India National-Level Student Convention 2023-24 (Tier-II) for an Autonomous Agricultural Robot.
- Blesson Tomy (S7 EEE) - Best Outgoing Student, IEEE PES Kerala Chapter Student Representative, IEEE PES Global Publicity Outreach Coordinator, selected for IEEE PES Leaders' Training in Thailand.

• Lekshmi Unnikrishnan (S7 EEE) - Women in Engineering Coordinator at IEEE SPS Kerala, participated in ICIP Malaysia 2023, finalist in the IEEE SPS 5-minute video clip contest, and secured 2nd prize in an IEEE SB Perumon quiz.

• Joe Able Vincent (S7 EEE) - 1st prize in Ecospeak - JAM by IA/IE/PELS Jt. Chapter, Vice Chair of IEEE IAS SBC RIT, and NEO Phase 1 qualified.

## Workshops and Technical Sessions

### • Energy Efficiency & Conservation Program (Feb 28, 2024)

Organized by KSPC and EMC Kerala. Sessions were led by Sri. K M Shanavaz on the Energy Conservation Act and Sri. Sarun Kumar K P on Energy Conservation Building Codes. The event concluded with a quiz and certificate distribution.

• Talk on Gas Insulated Substations (March 25, 2024) - Er. Midhun Varghese, Assistant Engineer, KSEBL, conducted a session on Gas Insulated Substations (GIS) for UG and PG students.



### • Workshop on LaTeX and Inkscape

Prof. Johnson Mathew (EEE Department) led a one-day workshop on LaTeX and Inkscape.

• Electrical Engineering Department hosted its annual techfest, "VIDYUTH," on the 14th and 15th of March 2024.

The event commenced with an inaugural ceremony graced by eminent personalities from the field of technology and academia. The ceremony set the tone for the two-day extravaganza, emphasizing the importance of

innovation and collaboration in driving technological advancements.



High school students at VIDYUTH

The Techfest hosted workshops and seminars conducted by industry experts and faculty members. A highlight of the event was the project exhibition, where students presented their innovative projects and research findings.



ISRO Expo on VIDYUTH

## Department of Computer Science & Engineering

- The CSE department of RIT has been approved for an additional batch for the 2024-25 academic year.

### • Vote Ready Application

Students Sreeraj, Aby, and Athira from the CSE & MCA departments developed Vote Ready under the guidance of Dr. Shibu Kumar K.B., Dr. John C John, and Prof. Pillai Praveen

based on requirements provided by the district administration.

## Bindu: cross-cultural tie-ups to advance technical research

Higher Education Minister inaugurates four-day conclave on technical education in city, underscores need to harness power of cultural diversity in fostering innovation in the field

The Hindu Bureau  
THIRUVANANTHAPURAM

Higher Education Minister R. Bindu has highlighted the pivotal role of cross-cultural and global collaborations in shaping the future of technological research and industry partnerships.

Inaugurating 'Udyama I.O.', a four-day industry-academia government conclave on technical education here on Saturday, Dr. Bindu underscored the need to harness the power of cultural diversity in fostering innovation.

Ground breaking ideas, she pointed out, often emerge when people from different cultural backgrounds come together to address a shared problem. The diversity of thought that arises from such interactions can lead to more creative solutions and a deeper understanding of



Students of the Rajiv Gandhi Institute of Technology, Kottayam, present a mobile application, 'Vote Ready,' which they developed to enable training of presiding officers, at Udyama 1.0 in Thiruvananthapuram on Saturday. The application was successfully tested during the 2024 Lok Sabha polls. ANIL D. SAHASRABUDDHE

complex issues. "In today's interconnected world, products and solutions must cater to a global audience. When multiple cultures and expertise come together, innovations are more likely to be versatile and adaptable to different markets and contexts, making

them more successful worldwide. By including diverse cultures and perspectives in innovation processes, solutions are more likely to be inclusive and equitable, addressing the needs of marginalised or under-represented groups. This creates inno-

ventions that benefit a broader range of people," she said. Stressing on the relevance of cross-border collaborations in addressing global challenges, she called for joint efforts for the fight against climate change, cyber security threats and healthcare crises.

In discussing emerging technologies like AI and biotechnology, the Minister emphasised the ethical challenges these innovations present. As these fields advance, they raise important questions about fairness, transparency, and accountability.

Former chairperson of All India Council for Technical Education (AICTE) Anil D. Sahasrabudhe, who currently heads the National Educational Technology Forum, urged policy makers to ensure the autonomy of higher education institutions in his keynote address.

A news clipping on Vote Ready Application from The Hindu

### • Crop Prediction System

Aby and Athira proposed a crop prediction system that utilizes various sensors to analyse weather and soil conditions for improved agricultural planning. Their innovative project won first prize in the competition.

### • Bodhi Quizzing League

Vivek Hari and Sanjay Nair won the Bodhi Quizzing League, a prestigious quiz series organized by the Bodhi Quiz Club of RIT.

## Department of Civil Engineering

### • Vastheya

Vastheya 2024, the Civil Engineering Department's annual Tech Fest at RIT Kottayam, was held in March 2024. The event was inaugurated by Dr. Prince J (Principal) in the presence of Dr. Vinish V Nair (HOD) and Prof. Shikha Ravi M P (Faculty Coordinator).

The fest featured expos and exhibitions, including a student model exhibition and

displays from MACCAFERRI, Ashok Tradelines, TIES, and Kristhu Jyothi College's Geological Department. Hands-on workshops covered Total Station, Arch Construction, GIS, and Photography.

#### • Site visit to Water Treatment Plant at Chengannur

As part of the Civil Engineering Association activities for 2024-25, a site visit was conducted on August 23, 2024, to the newly constructed water treatment plant at Chengannur. A total of 82 students participated, including 74 from S5 CE and 4 from S7CE. Students also visited a nearby WTP at Malayil to understand the stages of water treatment and their functioning.

#### • Industrial visit to Vaigai Dam

The S3 Civil Engineering (2023-27 batch) embarked on a two-day industrial visit on September 26-27, 2024. A team of 55 students, guided by Prof. Shikha Ravi M P, Prof. Greeshma Raju, and Anilkumar T.T., visited Vaigai Dam to connect classroom theories with real-world applications.

#### • Poster Design Competition

The Civil Department hosted a poster design competition on September 27, 2024, under UDYAMA 1.0 - Preconclave, themed "Climate Change and Mitigation". Aiswarya V.S. and Devika Ratheesh won first prize.

• The Structural Design Workshop, "Designing the Future" was conducted in association with the CGPC on October 3, 2024, for S7 CE. Led by Sri. Anilkumar R S, Chief Engineer, LSGD (KSRRDA), Thiruvananthapuram, the workshop provided hands-on experience in structural design tools and techniques.



*Workshop on Designing the Future*

• A one-day training on Research-Oriented Testing Methods in Structural Engineering was provided to M.Tech (SECM) students on November 22, 2024.

• Final-year civil engineering students undertook a 12-day industrial visit from January 10-22, 2025, exploring historical and modern structures across Agra, Jaipur, Delhi, and Manali.

• The B.Tech Civil Engineering (2020-2024 Batch) achieved a pass percentage of 82%.

• The M.Tech Transportation Engineering and Structural Engineering and Construction Management (2022-2024 Batch) achieved a pass percentage of 100% .

• Gokul Krishnan got certified as an All India Football Federation (AIFF) D License Coach.

## Department of Mechanical Engineering

The Department of Mechanical Engineering, established in 1991, continues to uphold its vision of fostering technical excellence to serve regional, national, and international industry and society. Dr. Jinesh N taken charge as Head of the Department in September 2024.

#### • Academic Programs & Research

The department offers B.Tech in Mechanical Engineering, M.Tech in Industrial Engineering & Management, and Ph.D. programs, with 250 undergraduates and 36 postgraduates currently enrolled. It is a recognized research center under APJAKTU and the NDF scheme, with five Ph.D. scholars on roll. Among the 19 faculty members, 11 hold Ph.D. degrees, supported by 23 technical staff.

#### • Research & Domain Expertise

The department has strengthened its expertise in four key areas: Design, Manufacturing, Thermal, and Industrial Engineering.

#### • Laboratory & Research Facilities

The department houses 11 instructional

laboratories and state-of-the-art computational facilities. The FAB Lab is equipped with laser cutters, 3D printers, electronic circuit milling machines, Raspberry Pi, and Arduino boards for hands-on learning. The Ergonomics Lab includes a driving simulator, ultrasonic sensors, heart rate monitors, and depth perception apparatus for advanced research.



*Driving Simulator*

#### • Industry Collaborations & MoUs

The department has signed MoUs with IIT Palakkad, Rubco, Enfost, and Govt. College of Nursing Kottayam to strengthen academic-industry collaboration.

- In the last academic year, the department has successfully completed many funded projects including development of trolley with motorized transfer, characterisation of sustainable filler lignin extracted from black liquor, development of trolley with motorized transfer mechanism for disabled patients, food waste shredding and composting system and automated drip based water system for RIT echo project.

### Department of Computer Applications

The Master of Computer Applications (MCA) program at RIT, Kottayam, was established in 2001 to equip professionals with the skills required for the IT industry. Many graduates secure placements in top firms like TCS, IBS, OFSS, Accenture, Wipro, Mphasis, and UST Global.

#### • Faculty Development Programme

A four-day training on Blockchain, Smart Contracts, and Cybersecurity was conducted by Dr. Sangeetha Jose and Dr. John C. John, offering theoretical insights and hands-on experience.



#### • Python Programming Workshop for High School Students

The Department of Computer Applications organized a five-day hands-on python programming workshop for high school students as part of its societal outreach initiative. The workshop aimed to introduce students to fundamental programming concepts, enhance their computational thinking skills, and foster their interest in coding. Ms. Dhanya P. S., system analyst of RIT, played a key role as the coordinator and resource person, guiding the students through interactive sessions, practical exercises, and real-world applications of python.



#### • Nutmeg 25: Inter-Department Football Tournament (Men)

Nutmeg 25, the annual inter-department football tournament, featured 7-a-side matches, strong alumni support, and was sponsored by Baa Povaaa.

#### • Trivela: Women's Football Tournament

Trivela, RIT's first women's inter-department football tournament, featured 3-a-side matches, strong alumni support, and promoted gender inclusivity.



*Inauguration of Nutmeg and Trivela*

#### Achievements



- Shefin and Manikandan participated in C-Zone KTU Cricket Tournament and Athul, Abhilash, Akshay, Ananthakrishnan, Naveen participated in C-Zone Football 9's Championship.

- Naveen was selected as university team player.

- The college table tennis team won the KTU Inter-Zone Championship, with Vishnu playing a crucial role. In KTU C-Zone Badminton, Parvathy J. Nair contributed significantly to the team's championship victory.

- The college kabaddi team secured the runner-up position in the KTU C-Zone Tournament, with A. Ananthakrishnan and Vishnu Vijayan playing key roles through their agility and tactical skills.

- Allen Philip and Nidhin Roy won the Samyukththa Tech Fest 2024 Quiz at SAINTGITS College and the Bodhi Quiz Competition.

- Arjun C Vinod and Arjun Biju won first prize in the web designing competition at Samyukththa Tech Fest 2024, SAINTGITS College.

- **Vote Ready**, an election training application, was developed in collaboration with the CSE Department under the guidance of Dr. John C John.

#### Department of Architecture

Dr. Binumol Tom has taken charge as Head of the Department in November 2024.

#### • Workshops and FDPs

An FDP on climate resilience through water sensitive approaches and practices in urban areas was organized by the department from 14 to 16 February 2024. The main objective of this FDP was to enhance knowledge and understanding in the field of Water Sensitive Urban Design and Planning approaches considering the impact of increased occurrence of climate change induced events and higher rate of urbanisation.



### • Emerging trails between architecture spatial planning and sustainable tourism development

The program aimed to equip faculty members with the necessary skills and knowledge to understand the basic principles in the domain of 'tourism development-focused architecture and spatial planning'.



### • Model making workshop

The "Model Making" workshop provided S2 students with an enriching opportunity to delve into the realm of architecture and spatial design under the mentorship of Ar. Ronish Roy.



### • NASA Day talk

As part of 67th NASA Day celebration (13th Sep 2024), an alumni talk session was conducted with Ar. Swathy Subramanian, a renowned heritage conservation architect and co-founder of EZHA Heritage.

### • INSTITUTIONAL CONSULTANCY PROJECTS

1. Vellavoor Panchayat Office (addition and renovation) for Vellavoor Grama Panchayat
2. Destination Challenge, Wadayar The project - Detailed Project Report on Tourism development in Udayanapuram Panchayat.
3. Campus planning and design of senior citizen's home and amenity centre at Kappumthala, Kottayam. Kottayam District Cooperative Society Hospital
4. Market redevelopment and shopping complex design, for Kalanjoor Grama panchayat.

### • Achievements

1. 'Best Performer Award' was awarded to Ar. Tessy Varkey in appreciation of contribution to IIA Kerala Chapter. Presented during the IIA Kerala Chapter Convention



2. Aiswarya MS who did her thesis on Vaikom Muhammad Basheer Centre for Storytelling, Kozhikode was shortlisted for Kerala Architecture Thesis Awards.

3. Ar. Philip Mathew Memorial Student design competition was open to all undergraduate students studying in the 3rd, 4th or 5th year of a B.Arch program in Kerala.

The challenge was to design 'A story-telling inspiration pavilion.' The Silver award was received by Fifth Semester Student - Khadeeja Muhammed.



3. Badminton (Women) - APJ KTU Zone Champions and Inter-Zone 4th Position.



*Badminton team(Women)*

4. The IIA Young Architects Festival is a national event, of The Indian Institute of Architects, to encourage & promote participation of Young Architects and to celebrate the contribution of the youngsters to the profession.

The project 'Reweaving The Missing Link' by EZHA Heritage was chosen as the finalist entry in the Reweave Kozhikode Competition, held at Young Architects Festival (YAF) by the IIA Calicut Centre. Ar.Swathy Subhranian, co-founder of EZHA Heritage is an alumni of architecture department.

4. Badminton (Women) - APJ KTU Zone Quarterfinalists

5. Kho Kho (Men) - APJ KTU Zone Runners-Up, Inter-Zone Participation



*Kho Kho team (Men)*

## Department of Physical Education

19 teams have participated in various University, State, and National-level competitions, achieving notable successes.

### • Achievements

1. Table Tennis (Men) - APJ KTU Zone & Inter-Zone Champions

2. Football (Men) - APJ KTU Zone Champions



*Football team(Men)*

6. Kho Kho (Women) - APJ KTU Zone Runners-Up, Inter-Zone Participation, District Championship Participation



*Kho Kho team(Women)*

7. Chess (Men) - APJ KTU Zone Runners-Up, Inter-Zone 7th Position



*Chess team(Men)*

8. Chess (Women) - APJ KTU Zone Runners-Up



*Chess team(Women)*

9. Kabaddi (Men) - APJ KTU Zone Runners-Up, Inter-Zone Participation



*Kabaddi team(Men)*

10. Basketball (Women) - APJ KTU Zone Champions, Inter-Zone Participation

11. Basketball (Women) - APJ KTU Zone Quarterfinalists

12. Karate (Women) - APJ KTU Inter-Zone Gold

13. Roller Sports - State Gold & National Participation



*Basketball team (Women)*

14. Volleyball (Men) - APJ KTU Zone Participation

15. Volleyball (Women) - APJ KTU, Zone Participation



*Volleyball men and women team*

16. Football (Women) - APJ KTU Inter Zone Participation



*Football team(Women)*

17. Cricket (Men) - APJ KTU Zone Runner up and Inter Zone Participation



Cricket team(Men)

18. Hand Ball (Men) - APJ KTU Zone Runner up and Inter Zone Participation



Handball team(Men)

19. Handball (Women) - APJ KTU Zone Winner and Inter Zone Participation.



Handball team(Women)

- Specialized coaching camps were organized for football, Kho Kho, Basketball, Volleyball, Kabaddi Cricket etc.

- To promote a fitness-oriented culture, the Department of Physical Education (DPE), along with the Staff Welfare Club, student clubs, and departments, organized various activities. These included a Mini Marathon, Inter-Staff Sports Meet, and Badminton Tournament, along with Inter-Department Staff Cricket, Football, and Inter-Class Competitions, fostering teamwork and active participation among students and staff.



Mini Marathon

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## • Infrastructure Development

1. Construction of a new Kho-Kho Court
2. Installation of a new Handball Post
3. Maintenance of the Sports Ground
4. Installation of a Water Purifier in the Gym
5. Initial steps taken for the construction of a new Badminton Court
6. Construction of Fencing around Basketball Court.



