



# News letter

BI-ANNUAL NEWSLETTER - YEAR 2022

## HIGHLIGHTS

- ▶ Third Position in B.Tech Final Year Results in 2022 with an overall ranking of 4th position.
- ▶ Successfully hosted International Conference on “Next Generation Intelligent Systems” (ICNGIS 2022) in July 2022.
- ▶ Five Faculty members from RIT received Ph. D. from premier institutes in India.
- ▶ Various departments of RIT produced seven Ph.D. scholars from Jan to June 2022.
- ▶ A spectacular placement record with more than 90% of students placed in the biggest companies in the market such as Oracle, BINARY BITS, and the like.
- ▶ “Kaithang” : assisting the needy in their quest to have proper housing.
- ▶ Ongoing eight funded research projects and eleven seed money projects, with sanctioned amount of Rs. 105.9 Lakhs and Rs. 18.83 Lakhs respectively.

## MESSAGE FROM PRINCIPAL

*“Intelligence plus character  
that is the goal of true education.”  
Martin Luther King Jr.*



Rajiv Gandhi Institute of Technology, Kottayam serves as a metonym for academic prowess and technological excellence for undergraduate, postgraduate, and research studies supported bounteously by the Government of Kerala. Novel facilities, accredited programmes, sponsored projects, expert talks, industry-institute interaction, and numerous social activities make it a meadow for ambitious scholars. Flanked by activities under TEQIP and various bodies like PTA, NSS, alumni, and other professional and social associations, and with commendable accolades in university exams and campus placements, RIT remains a cynosure of technical learning.

RIT Newsletter mirrors the various events, abounding talents, and achievements of the RIT fraternity. I express my unreserved joy on the occasion of the release of this new edition limning the technical and non-technical ventures of RIT.

Best Regards,

*Dr. C. Sathish Kumar*

01

## ‘KAITHANG’- A humanitarian project to build houses for the natives of Pampady

Hon'ble Minister for Co-operation and Registration, Mr. V. N. Vasavan inaugurated the event on 14th May 2022. The different departments of RIT have come up with a project called 'Kaithang' to provide technical advice at various stages of the construction of houses below 750 sq. ft. in Pampady Grama Panchayat. Mr. Nidhin Raj P. IPS, ASP Pala, and an RIT alumnus were honoured at the function. The inauguration of the College Union 2021-22 was also held on the occasion. The Minister distributed the laptops sponsored by the Kerala Technological University to deserving students.



Minister for Co-operation and Registration, Mr. V. N. Vasavan inaugurating the “Kaithangu”

02

## EXHIBITION ON THE OCCASION OF FIRST ANNIVERSARY CELEBRATIONS OF THE STATE GOVERNMENT

RIT took part in a stellar exhibition organized as part of the celebrations by various government departments and organizations, including sales counters and theme stalls to create awareness of various government projects.



Ms. Shilpa Dyavaiah IPS, Superintendent of Police, Kottayam visiting the Exhibition stall at Nagampadam stadium.

## DEANS OF THE INSTITUTION



Dr. BINUMOL TOM  
U.G. DEAN



Dr. CIBY THOMAS  
P.G. DEAN



Dr. LEENA MARY  
RESEARCH DEAN



Dr. GEORGE JOSEPH  
DEAN-STUDENT AFFAIRS

## HEADS OF VARIOUS DEPARTMENTS



PROF DEEPA RANI  
DEPARTMENT OF  
ARCHITECTURE



DR. AJITHA T  
DEPARTMENT OF  
CIVIL ENGINEERING.



DR. REENA MURALI  
DEPARTMENT OF  
M.C.A.



DR. VINOY GEORGE  
DEPARTMENT OF  
APPLIED SCIENCE.



DR. JOHNSON MATHEW  
DEPARTMENT OF  
ELECTRICAL ENGINEERING.



DR. ANILKUMAR CD  
DEPARTMENT OF  
ELECTRONICS  
ENGINEERING.



DR. A. RAMESH  
DEPARTMENT OF  
MECHANICAL  
ENGINEERING.



DR. MADHU K P  
DEPARTMENT OF  
COMPUTER SCIENCE  
ENGINEERING

## PLACEMENT CELL ACTIVITIES

The Career Guidance and Placement Cell of RIT is dedicated to achieving maximum placements and prospects for higher studies in prestigious institutions, enabling budding engineers to excel in their careers and contribute to the growth of our nation. The training section of CGPC plays a crucial role in imparting adequate training to students and enhancing their skills. Our major recruiters are GE Aviation, Microsoft, Amazon, IBM, Oracle, Binary Bits, SOTI, Key Value, MRF, Mercedes-Benz, Carestack, Mitsogo, Tata Elxsi, TCS, Litmus, VVDN, Huawei, Quest, QBurn, Bosch, Suntech, Cerium, Tech Mahindra, L&T, etc. 456 placement offers have been received in 2021-22 across multiple streams.

## SOCIALLY RELEVANT PROJECTS

### FROM DEPT. OF MCA

- Several socially relevant projects have been developed by the students from the Department of MCA under the supervision of Prof. Tomsy Paul, Prof. Sonupriya P. S., and Prof. Sreelakshmi K. R.
- Kottayam Taluk Front Office Management-A web-based software for front office management for the Taluk Office, Kottayam.
- Covid-19 Vaccine Registration Portal and Administration- A web-based software for Covid- 19 vaccine registration through a public portal for Taluk Head Quarters Hospital, Pampady.
- Khadi Board software-A web-based software for the salary management of workers of Khadi and Village Industries Board, Kottayam.
- EnQ - Enquiry App- An Android Application with a remote database for enquiry response via SMS for officers in Revenue Divisional Office, Pala.



## NATURE CLUB ACTIVITIES

A bird survey of the RIT Campus was done with the help of an expert birder Mr. Pradeep Kumar from 7 am to 9 am on 21st Feb 2022.

Dr. Binumol Tom, Dr. Bindhu B.K., and 17 students participated in the survey.

19 different species were identified and more than 100 birds were seen. Mr. Pradeep Kumar who is an expert in bird surveys described the details of birding to the team. Now RIT is also a member of the global e-bird count. Cleaning Campaigns were conducted in June 2022 in all the departments of RIT and at the Cafeteria.

More than 100 students participated in the campaign. Plastics, glass, and other garbage were collected in sacks that have been kept safely. Haritha karmasena was requested to collect these wastes as early as possible. The program created enthusiasm in the students' community for the conservation of the environment and maintenance of the serenity of the campus.

Another activity under the ambit of the nature club is a project under the scheme SPICES (Scheme for Promoting Interests, Creativity, and Ethics among Students), sanctioned by AICTE for an amount of Rs. 100000/- in May 2022. Dr. Bindhu B.K. is serving as the Principal Coordinator and Dr. Binumol Tom is the co-coordinator.



Students engaged in cleaning activity



A snapshot of the Survey Team

## PLACEMENTS

Civil Engineering .....	11
Computer Science and Engineering .....	116
Electronics and Communication Engineering.....	92
Electrical and Electronics Engineering .....	77
Mechanical Engineering .....	24
Master of Computer Applications (MCA).....	84
M.Tech Computer Science and Engineering.....	10
M.Tech. IDC(Industrial Drives and Control).....	10
M.Tech Electronics and Communication Engineering .....	18
M. Tech. PSRE (Power Systems and Renewable Energy) .....	4
M. Tech. Industrial Engineering & Management .....	6
M. Tech Engineering Design .....	4

## ICNGIS 2022

RIT organized the second edition of the International Conference on Next Generation Intelligent Systems (ICNGIS 2022) in July 2022, technically co-sponsored by IEEE Kerala Section & IEEE Industry Applications Society and financially co-sponsored by TEQIP Phase II. ICNGIS 2022 provided an intellectual forum for researchers and professionals to exchange their expertise and innovative ideas in various emerging fields on intelligent systems with their peers from different parts of the world. The conference included pre-conference workshops, lectures by invitation, technical sessions, and tutorials. Eminent academicians, industry experts, and researchers from various national and international level institutions and R&D organizations delivered keynote lectures and chaired technical sessions. The conference focused on evolving intelligent solutions viable for the next generation systems to overcome the challenges faced by society. The authors submitted the original research in six different tracks viz. Computing and Intelligent Systems, Communication and Signal Processing, Microelectronics and Embedded Systems, Electrical Energy Systems and Smart Control, Mechanical Energy Systems, and Sustainable Intelligent and Indigenous Infrastructure/Building Systems/Planning. All the papers presented at the conference were submitted for inclusion in the IEEE

## IEEE ACTIVITIES

IEEE Student Branch, RIT has made a mark for itself over the years, from being a part of various inter-SB IEEE programmes to hosting our events, it has come a long way. It is one of the oldest and most active student branches in the Kerala section, consisting of five student chapters—IAS, PES, Computer Society, RAS, and recently formed SPS, and an affinity group—WIE. One of the major achievements of our SB this year is STeM (Sanitisation-Temperature-Mask Detection System). It is a project approved under the IEEE Humanitarian Activity Community/SIGHT Projects 2021. The STeM is a system that automatically verifies that everyone is wearing their masks properly. It also records their temperature and checks for any inconsistencies while ensuring that they are sanitized. The project was brought to its successful completion through the joint efforts of IEEE SB RIT, PES, RAS, IAS, WIE, CS SBC RIT, and NSS RIT unit. It was implemented at RIT Kottayam, P.H.C. Pampady, Pampady GramaPanchayat, and Govt. Higher Secondary School, Pampady.

This year IEEE SB RIT successfully hosted the All Kerala Industry Applications Society Student's Conclave (AKIASSC'22) from May 6th to May 8th, 2022. It included technical workshops, industrial visits, motivational sessions, and a field trip to Kumarakom. IEEE IAS SBC RIT has been the recipient of two international awards from CMD IAS, one for Outstanding Student Branch Chapter and the other for Most Happening Chapter(3rd rank).



INAGURATION OF IEEE ACTIVITIES IN RIT KOTTAYAM

## COLLEGE UNION ACTIVITIES

The college union of RIT for the year 2021-22 was officially inaugurated by Hon. Minister for Co-operation and Registration V, N Vasavan in presence of Mr. Nidhin Raj IPS (ASP Pala, RIT ALUMNUS). The union, named "Deerajam", has organized and conducted various cultural and extra-curricular activities for the students of the college.



The Intercollege art festival of RIT, Keli was inaugurated by Actor Dev Mohan and Director Leo Thadeus. The event comprised various on-stage and off-stage competitions. A pro show by Malayalam rapper Thirumali and Thudwiser was also held on the last night of Keli.

## Cultural Activities

At the event held on April 22nd, Cine Actor Suraj Venjaramood inaugurated the Arts club under the College Union. A promotional team for the film Jana Gana Mana was present for the event. Actor Shri. Druvan did the inauguration of the new Photography club of RIT. The fresher's day for the batch 2021-25, which was named "Euphoria" was conducted on May 4th, at the college auditorium. First-year students performed for the event department wise and a procession was also held.



Cine Artist Shri Suraj Venjaramood Inaugurating the Arts Club of RIT

## Sports

Football Tournament sponsored by RIT ALUMNI association was conducted from 15th to 23rd Feb 2022, at the football court of RIT. Principal Dr. C Sathesh Kumar inaugurated the tournament. The first-year students of Civil Engineering were awarded the Champions trophy.



Principal Dr. C Sathesh Kumar inaugurated the Fresher's cup 2022

Mechanical engineering association organized a badminton doubles tournament DROP SHOT 2022 exclusively for women. Miss. Anjana Baiju & Miss. Shamras, S4 MCA were the winners. The department also organized a football tournament, Kick off 2022 for RIT students. Sri.M Santosh Kumar, an Indian professional football referee who officiates primarily in the I-League and Indian Super League inaugurated the tournament. The closing ceremony of the Kick off championship was held on 11th May 2022 in the RIT Football stadium. B Arch UTD were the champions of Kick off.

## OTHER ACTIVITIES

AAan MoU was signed between RIT and the Kerala Highway Research Institute (KHRI), the R&D wing of Kerala PWD on 25th February 2022 to provide opportunities for students to interim and be a part of the ongoing field projects.

The Literary Club of RIT 'Shabdika' organized a competition for making a handwritten magazine. First-years and second-years participated in the same. An MoU was signed between RIT and the National Transportation Planning and Research Centre (NATPAC), a premier research and consultancy organization on 17th January 2022 to facilitate joint research and consultancy, training, internship opportunities, and external project guidance for students.

Several interactive sessions named 'Back to Campus' were conducted by Civil Engineering Department with RIT ALUMNUS as resource persons to enlighten the students on the various opportunities in different fields such as transportation.



A glimpse of the Energy Swaraj Yathra

## NSS ACTIVITIES

The NSS unit of RIT has conducted many programmes, viz. Republic Day celebrations, Familiarization of Tree Tag- an NRPF flagship program, CleanTech Challenge-an awareness of solar energy and its promotion, Anganwadi beautification at Nedumkuzhi, College ground cleaning, etc. Another notable event was welcoming the Energy Swaraj Yathra by Prof. Chetan Singh Solanki, IIT Bombay and founder of Energy Swaraj Foundation, to RIT on 5th April 2022.

## RIT ALUMNI ASSOCIATION ACTIVITIES (RITAAN)



A glimpse of the 'RITAAN' Annual general body meeting

The RIT Alumni Association (RITAAN) has been set up to maintain the bondage between the alumni and the alma mater by supporting the development of the college through various activities. The annual general body meeting of Alumni "RITAAN" was inaugurated on 8th January 2022 by the chief guest Dr. R Sasikumar (Director, CAPE). Distinguished teachers were honoured and distributed different categories of scholarships to the deserving students of the 2021 pass-out batch. The association appreciated the hard work of students by distributing scholarships to meritorious and economically backward students who are currently studying in the college.



The RIT women's cell conducted a panel discussion titled "Break the Barriers" and it was attended by successful women in the engineering field, as a part of the International Women's Day celebrations. On the eve of International Yoga Day on 21st June, the Women Cell conducted a program with the theme "Healing with Nature" under the AICTE - Scheme for Promoting Interests, Creativity, and Ethics among students (SPICES).

## WOMEN CELL ACTIVITIES



A glimpse of the activities performed on International Yoga Day.

Other events by the Women's Cell consisted of an expert talk on menstrual hygiene and PCOD a blog writing competition, quiz competition, troll-making competition, collage competition, tagline competition, etc.



A glimpse of the MoU signed between RIT and the National Transportation Planning and Research Centre (NATPAC),

## FACULTY MEMBERS OF RIT CONFERRED WITH Ph.D. BY PREMIER INSTITUTES.



**Dr. John C. John**

Institute : IIT Kharagpur.  
Thesis title : "Attribute-based Authorization Management for Multi-domain Collaboration".



**Dr. Johnson MaThew**

Institute, RIT Kottayam.  
Thesis title : "Model Based Maximum Power Extraction for Photovoltaic Systems Operating under Partially Shaded Condition".



**Dr. Shanifa Beevi S**

Institute, RIT Kottayam.  
Thesis title : "Theoretical and Experimental Studies on Irradiance Estimation and MPPT techniques for PV systems under Non-uniform Operating Conditions".



**Dr. Neetha George**

Institute, College of Engineering, Trivandrum.  
Thesis title: "Study and Investigations on Algorithms for Segmentation of DCT images for Ophthalmic Applications."



**Dr. Swapnesh S.**

Institute, IIT Bombay.  
Thesis title : "Utilization, Maintenance and Retrofit Planning for Passenger Rakes on Railway Systems".

## Research scholars have been awarded Ph. D. by KTU, under the supervision of faculties of RIT.



**Dr. Deekshitha G**

Supervisor:  
Dr. Leena Mary, ECE.  
Thesis title : "Multistage Spoken Term Detection for Searching Speech Databases".



**Dr. Starlet Ben Alex**

Supervisor:  
Dr. Leena Mary, ECE.  
Thesis title : "Multilevel Prosodic Features for Automatic Emotion and Speaker Recognition from Speech using Deep Learning Techniques".



**Dr. Tomson Devis**

Supervisor:  
Dr. Manju Manuel, ECE.  
Thesis title : "Auto-reconfigurable and Hardware-efficient Filter bank Structures for Auditory Compensation in Digital Hearing Aids".



**Dr. Ginu Ann George**

Supervisors: Dr. Jayan M. V. and Dr. Prince A., EEE.  
Thesis title : "Modular Cell Balancing Integrated with Intelligent Mono-circuitry for Electric Vehicle Applications".



**Dr. Fossy Mary Chacko**

Supervisors: Dr. Jayan M. V. and Dr. Prince A., EEE.  
Thesis title : "Investigation on a Modified SRF theory-based Multifunctional Control Strategy for Power Quality Enhancement in Grid Integrated Photovoltaic Systems".



**Dr. Jisha Anu Jose**

Supervisor: Dr. C. Sathish Kumar, ECE.  
Thesis title : "Development of Machine Learning Based Systems for Classifying Fishes Using Morphometric and Mathematical Transform Techniques".



**Dr. Deepa V.**

Supervisor:  
Dr. C. Sathish Kumar, ECE.  
Thesis title : "Detection and Grading of Diabetic Retinopathy using Textural Feature Descriptors and Machine Learning Algorithms".

## STAFF WELFARE CLUB ACTIVITIES

Staff welfare club members lending a helping hand to Koottikal landslide victims. Furniture and other household items were provisioned to 26 families in the Koottikal-Kokkayar area.



Staff welfare club members lending support for Koottikal landslide victims.

## FACULTY MEMBERS RETIRED FROM OUR INSTITUTION



**Dr. Vincent G**  
Associate Professor  
EEE Dept.



**Sri. Prasannan V**  
NTA  
Administrative Dept.



**Sri. Wilson T**  
Senior Superintendent  
Administrative Dept.



**Smt. Isbella C**  
System Analyst  
MCA Dept.



**Sri. Sureshkumar N**  
Workshop Instructor  
Mechanical Engg. Dept.



**Smt. Rajani M K**  
Demonstrator  
Arch. Dept.



**Sri. Thomas Abraham**  
Trade Instructor  
EEE Dept.

Seven employees retired this year from RIT after years of exemplary services in various institutions in Kerala. RIT staff welfare club honoured them in a retirement function on 31st May 2022.

## FACULTIES AND STUDENTS ACHIEVEMENTS

**Dr. Binumul Tom, Professor in Architecture**, received a research scholarship of Rs. 3, 50,000/- (Rs Three lakhs Fifty thousand only) from **INDIAN NATIONAL TRUST FOR ART AND CULTURAL HERITAGE, NEW DELHI** for researching on the topic "Historic cities of erstwhile princely kingdoms of Travancore and Kandy kingdom of Ceylon - Cultural communities and city Architecture" in the month of April 2022.

**Dr. Binumul Tom, Professor in Architecture** conducted a session online on "Jiirrnmodharana, the Indian philosophy of Conservation" in the symposium on Indian Conservation Thinking conducted by Bard Graduate Centre, New York during 6th to 8th May 2022.

**Dr. Binumul Tom, Professor in Architecture** was nominated as a member in the Inspection Reforms Committee for suggesting revision in the procedure of inspections of institutions being followed by the Council and for updating Application Forms and Assessment Reports to be used for approval process of institutions for B.Arch./M.Arch. courses by Council of Architecture, New Delhi in January 2022.

**Dr. Leena Mary, Professor in ECE & Dean Research**, secured the **Outstanding Researcher Award 2021 of IEEE Kerala Section**.

**Dr. Sobhana N. V., Professor in CSE**, received **Dr. A P J Abdul Kalam Teachers' Excellence National Award** by Shikshak Kalyan Foundation in December 2021.

**Dr. Dolly Mary A., Associate Professor in EEE**, was awarded **Outstanding IEEE Branch Counselor and Branch Chapter Advisor Global Award 2022**.

**Ar. Milan Susan Elias, Assistant Professor in Architecture**, achieved **second place** in the "CREATIVITY" category of the **Art of teaching contest** conducted by GTeCh uLearn and Kerala Technological University, Thiruvananthapuram. The award is for the creativity tip which she used in class for S4 students while teaching structural systems in Byzantine Architecture.

**Eight students B. Tech. CSE got campus placements with packages greater than 10 Lakhs p.a.** They are Shivani S. (BNY Mellon, 17.34), Alsam Salim, Merin Babu, Navaneeth Krishna E. S. (Oracle, 16.65), Alan Thomas Shaji, Anil Anand, Gaagul C. Gigi, Sruthy J. Mallya (BigBinary, 16) and Anil Anand (Motorola, 11.76).

**Anantha Krishnan, M. Tech. student of ME**, represented **APIAKTU Netball team** in the **All India Inter University Netball Championship** held at Bharathidasan University Trichy, Tamilnadu from 20th to 23rd March 2022.

The Project Aquamantis : **Poultry Feed Production from Water Hyacinth** by "Team Astras" were awarded an Idea Grant by Kerala Startup Mission as part of Idea Fest 2021. The team members were: Vaishakh U. S. - S5 EEE, Ansel Sebastian -S5 ME, Nandu Krishnan -S5 CSE, Nithin M. S. - S5 CE, G. Saradha -S5 ECE and Avena Sara Saji -S3 ECE.

**Jyothi Elizabeth V**, B Tech Student of CE (2022 pass out) got admission for PhD in Civil Engineering, Georgia Tech University, Atlanta USA.

**Anandu S M Tech CS 2018-2020** got admission for PhD in Computer Science at Institut Polytechnique de Paris for the academic year 2022.



## BI-ANNUAL NEWSLETTER - YEAR 2022

RAJIV GANDHI INSTITUTE OF TECHNOLOGY, GOVT. ENGG COLLEGE, PAMPADY, KOTTAYAM  
Affiliated to MG Univty (1991-2015), Kerala Technical Uni (2015 onwards)



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<http://www.rit.ac.in/>



**T E A M**  
Dr. Vineetha S, Dept. of MCA (Convener)  
Prof. Shinoj K. Sukumaran, Dept. of ECE, (Co-convener)  
Prof. Dinesh C. Dept. of Architecture, (Design)