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Sampige

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From the Editorial Board

Friends,



I wish to welcome our readers to another issue of Sampige, a quarterly News Bulletin of Ramaiah Institute of Technology through which we keep the college community and beyond abreast of happenings, developments and the great strides achieved by our institution. In the present issue, the features and other highlights of the news include two important functions namely the Graduation Day Celebration and Fresher's Day (Commencement of First year classes). I look forward to your continuous support from staff and different stakeholders to further the growth of RIT. Please feel free to express your views and I look forward to your support in the coming issue. Hope that you will enjoy reading this issue.

Best wishes
Dr. N. V. R. Naidu



Friends,

Greetings and welcome to another issue of Sampige, a quarterly News Bulletin of Ramaiah Institute of Technology, a comprehensive report on various activities held in the institution as well as various departments. In this News Bulletin, we have highlighted Graduation day and Fresher's Day celebration. In concluding, I would like to acknowledge all the HODs and section Heads for providing a detailed report of their departments towards finalizing this issue of Sampige. The success of this issue of Sampige depends on your valuable support. I would always appreciate your feedback.

With best wishes
Dr. B. M. Nagabhushana

RAMAIAH INSTITUTE OF TECHNOLOGY

VISION OF THE INSTITUTE

To be an Institution of International Eminence, renowned for imparting quality technical education, cutting edge research and innovation to meet global socio-economic needs.

MISSION OF THE INSTITUTE

RIT shall meet the global socio-economic needs through

1. Imparting quality technical education by nurturing a conducive learning environment through continuous improvement and customization.
2. Establishing research clusters in emerging areas in collaboration with globally reputed organizations.
3. Establishing innovative skills development, techno-entrepreneurial activities and consultancy for socio-economic needs.

QUALITY POLICY

We at Ramaiah Institute of Technology, strive to deliver comprehensive, continually enhanced, global quality technical and management education through an established Quality Management System complemented by the synergistic interaction of the stakeholders concerned.

RIT is Ranked

#78

Best Engineering
Institute Among 1314
Reputed Institutes
in India

#23

Best School of Architecture
Among 105 Reputed
Architecture Schools
in India



- As per National Institutional Ranking Framework, MoE, Govt. of India, 2023

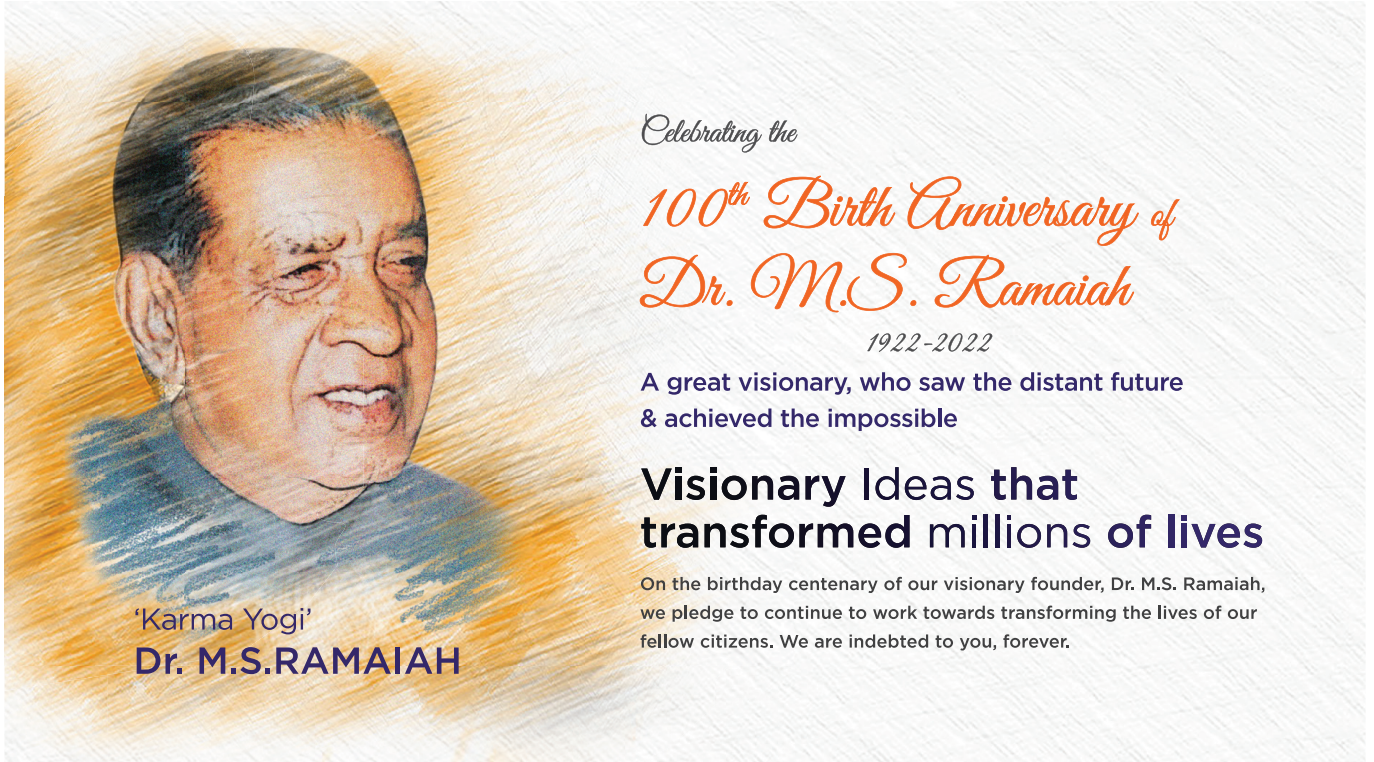


All India Innovation Rank Band 11-50

MSRIT is accredited by NAAC with A⁺ Grade

Dr. M.S. Ramaiah (1922 - 1997)

Founder Chairman, Gokula Education Foundation



We offer our humble tributes to our venerable founder Chairman late Dr. M S Ramaiah, a renowned philanthropist, educationist and visionary who Established the Gokula Education Foundation in 1962 and M S Ramaiah Institute of Technology (MSRIT) was started in the same year envisioning the need for quality technical education towards taking India ahead.

MSRIT is celebrating its Diamond Jubilee year in 2022, at this juncture, we at MSRIT reiterate our commitment to creating world-class technical professionals who strongly reflect the universal human values of integrity, honesty, and character as they go on to contribute to the nation and the world at large.

TRIBUTE TO A VISIONARY

Celebrating 100 years of this Great Iconic Figure

Dr. Mathikere Sampangappa Ramaiah was born on 20th April 1922. This great visionary lives on through his legacy, which continues to illuminate the lives of millions through healthcare, education and philanthropy.

Dr. M S Ramaiah began his career at Indian Testing Laboratories, where he rose in popularity amongst his peers and colleagues. Dr. M S Ramaiah moved on to the Mysore Railway narrow gauge section as a fireman a few days later his father called him back to the family brick manufacturing facility. His zeal to build greater milestones inspired Dr. M S Ramaiah into civil contracting of his first Radhanagiri Hydroelectric Project, building the Ghataprabha left bank canal. The Sharavathi valley and Dharma dam and the renowned Irrigation Project of River Budhi Gandak on the Indo-Nepal border.

Dr. M S Ramaiah's strong connection with nature lured him to start Gokul dairy farm in 1950 and procure 700 acres of land near Devanahalli which he evolved into a lush green region.

In 1957 Dr. M S Ramaiah took over Tayinadu a local newspaper from Chamrajpet which he enriched with ample resources and passion. In 1963 he launched a monthly called Kailasa and a weekly called Gokula which saw eight years of growing appreciation in the Kannada Literary World.

Dr. M S Ramaiah believed education is the most powerful tool to change the world and this empowered him to set up educational institutions. In 1962 Ramaiah Institute of Technology (RIT) was established, which foresaw India's IT revolution and is continuously grooming the country's leading talent. Today, Ramaiah Institute of Technology has been recognized as one of the premier educational institutions across India and Ranked First among the VTU affiliated Engineering Institutions as per the NIRF, MoE, Government of India. RIT offers courses that are shaping professionals of today and tomorrow with engineering brilliance. Dr. M S Ramaiah focused on all fields and levels of education, i.e., Nursery to Surgery, Foundational courses to building the foundation of the country with lawyers, Artists, Doctors, Managers and Business Analysts.

In 1972 he facilitated water, electricity and innovative agricultural practices to plant

numerous trees. He won an Asian record for being a single individual to nurture so many trees, he was also the first person to implement drip irrigation in private farms.

Dr. M S Ramaiah welcomed industrialization and set up M S Ramaiah industrial estate for running small-scale industries in plastics, agro products, steel & metals and software technology.

Being a patron of art and culture, Dr. M S Ramaiah provided a platform to many artists to showcase their talents. He organised the Kannada Sahithya Sammelana at Kaiwara in the year 1990, for the neoteric and literary minds of Kannada literature to convene.

Dr. M S Ramaiah took over as the Dharmadhikari of Kaiwara temple and oversaw a pristine temple built for Tatayya. Great development works were carried out, including lodging for thousands of daily devotees. The trust arranges Prasad distribution every day for all visitors.

Dr. M S Ramaiah built the pristine Venkateshwara Temple and the magnificent entrance Arch of Raja Rajeshwari Temple, which is still one of the largest arches built.

This charismatic man nourished people's progress through education as well as philanthropy, he set up an education fund to support deserving students irrespective of caste or religion, which today provides impactful assistance of nearly 90 lakhs a year. He even developed affordable residential layouts to house those who could not afford them. Dr. M S Ramaiah also developed numerous places of worship community marriage halls and tall trees for mass marriages, and public kitchens and even started a rural health care center to offer free medical and dental treatment by top doctors of Bengaluru city.

Dr. M S Ramaiah's dreams shine on beyond his lifetime and his greatness fondly lives on in the hearts of thousands of people through his numerous impactful initiatives.

*What we have done for ourselves alone dies with us.
What we have done for others and the world remains
and is immortal. —Dr. M.S. Ramaiah*

GRADATION DAY - 2023



- The graduation day for the students of the 2019-23 batch of Bachelor of Engineering 2018-2023 batch of Bachelor of Architecture, 2021-2023 batch of M.Tech, MBA and MCA was conducted on 27-09-2023. Dr. M R Jayaram, Hon'ble Chairman, GEF, and Chairman of Governing Body declared the graduation day ceremony open to confer the provisional degree to BE, B.Arch. MBA and MCA. Dr. Uday B Desai, Former Director, IIT Hyderabad, Chancellor, Anurag University, Hyderabad, & ICFAI University Dehradun. Chief Guest for the Graduation Day Ceremony and delivered the graduation day address. 1242 of both Graduate and Post-graduate students were part of the graduation ceremony. The graduating students from 13 departments and 292 students from Post-graduate departments. The certificate and mementoes were distributed to all graduating students for the year 2023. The event was graced by Sri. M.R. Sitharam, Honorable Vice Chairman, GEF & Director of RIT, Sri. M R Ramaiah, Honorable Secretary, GEF and Director of RIT, Sri. B. S. Ramaprasad, Chief Executive, GEF and General Sciences, Dr. N.V.R Naidu, Principal, Dr. Pradeep Kumar Dikshith, Vice-Principal, Sri. Thallam Venkatesh, President, RIT Alumni Association and Dr. Archana Registrar Academic.

FRESHER'S DAY



- Fresher's day, commencement of classes for First Year BE/B.Arch. programs for UG 2023-24 batch was inaugurated on 25-09-2023. The hon'ble chief guest for the day, Prof. T G Sitharam, The Chairman, All India Council for Technical Education (AICTE), New Delhi inaugurated the programme. The guest of honour Sri. Girish S, IPS, Deputy Commissioner of Police, Whitefield, Bengaluru, a Distinguished Alumnus, RIT, Bengaluru. The event was graced by Dr. M. R. Jayaram, Honorable Chairman, GEF, Sri. M.R. Sitharam, Honorable Vice Chairman, GEF & Director of RIT, Sri. M R Ramaiah, Honorable Secretary, GEF and Director of RIT, Sri. B. S. Ramaprasad, Chief Executive, GEF and General Sciences, Dr. N.V.R Naidu, Principal, Dr. Pradeep Kumar Dikshith, Vice-Principal, Sri. Thallam Venkatesh, President, RIT Alumni Association and Dr. Archana Registrar Academic.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Paper Publications in National/International Journals

- Sesidhar, D. V. S. R., **Chandrashekhara Badachi**, and Robert C. Green II – 'A review on data-driven SOC estimation with Li-Ion batteries: Implementation methods & future aspirations', Journal of Energy Storage, Vol.72, (2023), Pg.108420. <https://doi.org/10.1016/j.est.2023.108420>
- Vinayak. V. Rao**, Pradipkumar Dixit, R.Hariskrishna, K.Ramakrishna Murthy – 'Experimental Investigation of Nano Al₂O₃ Filled Silicone Rubber Specimen Used in Outdoor Insulation', Surface engineering and applied electrochemistry, Vol. 59, September 2023, PP. 422- 432, <https://doi.org/10.3103/S1068375523040154>.
- Vinayak. V.Rao** – 'Assessment of insulation failure of field aged 11kV polymeric insulators of marine environment with characterizations technique', Journal of Failure analysis and prevention, Springer Nature, Springer, August 2023. <https://doi.org/10.1007/s11668-023-01730-8>
- Kusumika Krori Dutta**, Premila Manohar, Indira K – 'Time and frequency domain pre-processing methods for multiclass seizure classification of epileptic EEG signals', Journal of Intelligent & Fuzzy Systems, August 2023, <https://doi.org/10.3233/JIFS-224570>.

International Conference/National Conference

- Dawnee Soman, Shruti Gatade, AtlaRushitha** – '2D Material – Molybdenum Disulfide Role in Energy Generation – A Review', 4th International Congress, CAMSE 2023, IIT Roorkee & NIT Jalandhar Sept. 2023.
- Harsha K, SaritaKumari, **Kusumika Krori Dutta**, Kehkashan J, SahilSaurav, Shubham Kumar – 'Development of Machine Learning Model for Assistance of Visually Impaired', IEEE International Conference on Applied Intelligence and Sustainable Computing (ICAISC - 2023), by Shri Dharmasthala - Manjunatheshwara College of Engineering and Technology, Dharwad, 16th – 17th June 2023. <https://doi.org/10.1109/ICAISC58445.2023.10199677>.

- S. Poornima** – 'Nonlinear behavior of gas discharge based memristor under ferroresonance modes', International Conference on Multidisciplinary Research in Technology and Management, New Horizon College of Engineering, Bangalore, September 2023.
- S. Poornima**, Abhijeet Kumar, AjudiyaShubham, AyushAvinav and Sushant Kumar Singh – 'Smart Bookshelf for Library Management', International Conference on Multidisciplinary Research in Technology and Management, New Horizon College of Engineering, Bangalore, September 2023.
- Neelamsetti Kiran Kumar**, Ashalathi N, DheekshithG, Vinod C R, Siripireddy Venkateswarulu – 'Design and Implementation of Automatic control of Power source Selection to charge an EV Battery', International Conference on Multidisciplinary Research in Technology and Management (MRTM-23), Bangalore, September 2023.
- S. Venkateswarlu Reddy, **Neelamsetti Kiran Kumar**, N. Ramesh, Jarapala Siva Naik, Rahul S G – 'Achieving Covertness in the Wireless Mode-based Communication in the IoT Connection with use of THZ Band and AWGN Channel', Second International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON), Bangalore, August 2023.
- Subha R**, Nayana B R, Selvadass M – 'A Study on Prediction of Myocardial Infarction Using Computational Intelligence and Machine Learning Algorithms', Second International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON), Bangalore, August 2023.

Published in book chapter

- KehkeshanJalall S, **Kusumika Krori Dutta**, Harsha Karamchandani, Sarita Kumari, N P Sakambari, Suchismita Banik – 'Supervised Learning Techniques for detection of Lung Carcinoma', 2nd International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2023) J. Phys.: Conf. Ser. 2571 012004<https://doi.org/10.1088/1742-6596/2571/1/012004>.
- Kusumika Krori Dutta**, Kehkeshan, Harsha K- 'Diagnostic tools for Gallstone', in the book Gallstone formation, diagnosis, treatment & Prevention, 2023. Elsevier.

Guest Lecture Delivered by the Department faculty

- **Dr. Hemachandra. Gudimindla** - 'Entrepreneurship and innovation start-up journey', September 2023 as a part of the workshop conducted by Institutions innovation council of Sheshadripuram First grade college.

DEPARTMENT OF MECHANICAL ENGINEERING

Publication in (National/International) Journals

- **K.R.V. Subramanian**, Tejas K, R George, Jay Porwal, Mohammad B Zaid, Yash Kusane (2023) - 'Development of multiwalled carbon nanotube flow sensor using copper oxide nanofluids', IEEE Sensor Journal (Q1), vol. 23(15), pp. 16665-16671, 1st Aug. 2023, doi: 10.1109/JSEN.2023.3284091.
- **Gururaj Lalagi, P. B. Nagaraj, Vinayak Talugeri**, Mallikarjuna Veerabhadrappe Bidari - 'Study on heat transfer and pressure drop characteristics for nanofluids in microchannel heat exchangers', Physics of Fluids, Vol.35, 2023, Pg. 102015, <https://doi.org/10.1063/5.0169130>.
- **Sujeet Magi, CM Ramesha, Girish V Kulkarni** - 'A Study of Erosion Rate of Homogenized Structural AL7175 Alloy for Aircraft Application', Journal of Mines, Metals & Fuels, July 2023, <https://www.informaticsjournals.com/index.php/jmmf/article/view/34731>.
- **Jyothilakshmi R, Nandheesha H.L, Deepak S** - 'Experimental Study and Analysis of fretting wear and its influence on functionality of mechanical components', Journal of Applied science and Engineering progress, September 2023. DOI: 10.14416/j.asep.2023.03.005.
- **Chithirai Pon Selvan, L Girisha, Vishwanath Koti, Mahadev Madgule, Mahesh Basetteppa Davanageri, Avinash Lakshmikanthan, Manjunath Patel Gowdru Chandrashekarappa** - 'Optimization of stir casting and drilling process parameters of hybrid composites', Journal of Alloys and Metallurgical Systems, Vol. 3, September 2023. <http://dx.doi.org/10.1016/j.jalmes.2023.100023>.

Publication in (National/International) Conferences

- **Hemanth Kumar K.J., B. Sadashive Gowda, Jyothilakshmi R** - 'Effect of Combustion chamber shapes on performance and emission characteristics of sugarcane bagasse briquette producer gas operated dual fuel diesel engine, International Symposium on sustainable waste management 2023', 24th September 2023, Department of Mechanical Engineering, Institute of Engineering and Management, Kolkata.
- **Ashok Kumar K** - 'Performance Studies on Evaporative cooling system with seawater and fresh water', Fourth International Conference on Emerging Research in Civil, Aeronautical and Mechanical Engineering, 22nd and 23rd September 2023, Nitte Meenakshi Institute of Technology, Bengaluru.

DEPARTMENT OF CIVIL ENGINEERING

Publications in National/ International Journals

- **Anil Kumar R, Varun H R, Krishnagowda Patil** - 'Sustainability Evaluation for selecting the best optimized structural forms for tall building', Eur. Che. Bull. Vol. 12(8), (2023), pp. 8691 -8708.
- **Anil Kumar R, Lakshmi H S, Nandeesh M S and Shivaraj G N** - 'Design & Development of Axis 3D mortar printer with rheological modification', Rock and Soil Mechanics, Vol.44(6), (2023), pp. 467-472.
- **Raje Gowda and R Mourougane** - 'Performance evaluation of Nano grapheme in cement mortar', Seybold Report, Vol. 18(7), (2023), pp. 1977-1987.
- **B Suguna Rao, Dharshan N, Niranjana Murthy** - 'Punching Behaviour of flat slab using recycled Aggregate', Journal of Propulsion Technology, Vol. 44(3), (2023), pp. 844 -851.

Publication in (National/International) Conferences:

- **J Akshit Jain** - 'Effect of Bagasse ash and ferric chloride on properties of soil', in SIIOC 2023 at NITK Surathkal.

Guest lectures delivered by the department faculty

- **Dr. I Venugopal** - 'Role of Civil Engineers in space/ chandrayaan mission' at Engineers day celebration organized by ACCE, Bengaluru on 23rd September 2023.
- **Nagashree B** - for evaluating innovative projects at Shree Venkateshwara College of Engineering, Bengaluru on 7th September 2023.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



- An eight-week Advanced Certification Course was conducted for UG and PG students on 'System Verilog and UVM' during July-September 2023. This course in VLSI Verification, involved verification of the RTL design for its functionality and comprehensively covered System Verilog and UVM with multiple examples, labs and projects. This course was designed by keeping the latest industry requirements in mind and delivered by practicing experts in Verification.

Publications in (National / International) Journals

- L. Zhang, V. D, **M. Nagabushanam**, R. B. B and A. Singh - 'Efficient Direction Estimation of Both Coherent and Uncorrelated Sources Without Prior Knowledge of Source Count', in IEEE Sensors Journal, Vol. 23(18), (2023), pp. 21739-21746.
- **Lakshmi Shrinivasan, Reshma Verma**, Mysore Dakashinamurthy Nandeesh - 'Early Prediction of diabetes Diagnosis using hybrid classification techniques', IAES International Journal of Artificial Intelligence (IJ-AI) Vol. 12(3), (2023), pp. 1139-1148.
- **S. Lakshmi**, Layeek Pasha, K. P. Prithvi, K.P., A.N. Lokesh Kumar, M.M. Manjushree - 'Optimized designs of piezoelectrically actuated MEMS Varactors for microwave applications', Microsystem Technologies, Vol. 29(7), (2023), pp. 1015-1028.
- S. Umarani, Sunitha Y N, **V Nuthan Prasad**, KDV Prasad, Chanakya Kumar, Yogesh Mahajan - 'IoT-Driven Image Processing Framework for Accurate Skin Diseases Diagnosis and Classification', SSRG International Journal of Electronics and Communication Engineering, Vol. 10(7), (2023), pp. 108-129.
- **Punya Prabha V, Manjunath C Lakkannavar**, Channakka Lakkannavar, Kushalatha M R, Lavanya Kamaraju, Kaveri Kumar Shirahatti, Bhagawankripa Mehta, Anirudh Shishir - 'Classification and Localization of Thoracic Diseases and Multiple Sclerosis Detection Using Deep Learning', European Chemical Bulletin Journal, Vol. 12(10), (2023), pp.12815-12823.
- **Mamtha Mohan**, Mamatha A S, Shobha N - 'Disease spreading control in indoors', Eur. Chem. Bulletin, Vol. 12(8), (2023), pp. 75-85.
- M D Nandeesh, **Punya Prabha V**, Tejaswini S - 'Medical Image Analysis for Detection and Prediction of Skin Diseases using CNN', Journal of Survey in Fisheries Sciences, Vol. 10(3), (2023), pp.128-133.
- C. S. Sonali, Chinmayi B. S, John Kiran, **Suma K V**, Muhammad Easa - 'Transformer-Based Network for Accurate Classification of Lung Auscultation Sounds', Critical ReviewsTM in Biomedical Engineering, Vol. 51(6), (2023), pp.1 - 16.
- **Flory Francis, S. Imaculate Rosaline**, R. Suresh Kumar - 'A metamaterial-based superstrate inspired circularly polarised MIMO antenna with enhanced gain and bandwidth', Optical and Quantum Electronics, (2023), Article number: 1062 (2023).
- Rosario Huerta-Soto, **Flory Francis**, Maximiliano Asís-López, Jeidy Panduro Ramirez - 'Implementation of Machine Learning in Supply Chain Management process for Sustainable Development by Multiple Regression Analysis Approach (MRAA)', EVERGREEN Joint Journal of Novel Carbon Resource Sciences & amp, Green Asia Strategy, Vol. 10(2), (2023), pp.1113-1119.
- Venkatesh Murthy, **Flory Francis, Immaculate Rosaline S**, Dr. S. Bhargavi, Jangli Kondappa

- 'Metamaterial-Inspired Patch Antennas: An Overview', Journal European Chemical Bulletin, Vol. 12(5), (2023), pp. 2218-2233.
- **Deepali Koppad, Suma K V**, Nethra N, Sonali C S – 'Non-destructive Technique for Agricultural Seed Classification Using Deep Learning', ICICT 2023. Lecture Notes in Networks and Systems, Springer, Singapore, Vol. 694, (2023), pp. 695 - 703.

Paper presentation in National / International Conferences

- Nayana G, **Maya V. Karki** – 'Deep Learning Techniques for Parkinson's Detection Using EEG Signals Analysis', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 1st - 2nd September 2023.
- **Lakshmi Shrinivasan, Reshma Verma**, Kalyani Tekade – 'Performance Prediction and Estimation of Battery State of Charge using DNN for Electric Vehicles', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), NMIT, Bangalore, 1st - 2nd September 2023.
- B. Saumya, Prathamesh. S. Kumble, **Sara Mohan George**, Vishruth Rao, B. N. Prateek, J. V. Mahendra – 'Smart shoes for Parkinson's Patients', 2023 World Conference on Communication & Computing (WCONF), Raipur, India, July 2023.
- Deepika R Sharma, **Raghuram S**, Chandana S, Suma K V, Nivedita Reshme – 'Electro hysteroqram System with Remote Assistance for Pregnant Women', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 1st - 2nd September 2023.
- Saquib Akhtar, **Deepali Koppad**, Mohammed Mehtab Alam, Soumya Kanti De, **Suma K V**, Nethra N – 'Multiple Seed Segregation Using Image Processing', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 1st - 2nd September 2023.
- R. Kavitha, **V. Nuthan Prasad**, Dankan Gowda V, Umayal M, Subhiksha K, Anitha K – 'A Novel Approach for identification and Donation of Surplus Food using Machine Learning-Based Replate App', 2nd International Conference on Augmented Intelligence and Sustainable Systems (ICAIS-2023), CARE

College of Engineering, Trichy, India, 23rd - 24th August 2023.

- Karthik M Bharamappa, **Mamtha Mohan** – 'Securing of Medical Images Using Quantum Cryptography', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 1st - 2nd September 2023.
- **Mamtha Mohan, Pavitha U S**, Saliq Arshid, Shafkat Bano, Srigouri Anegundi, Yuvraj Singh – 'A Novel Approach to Detect Dementia using ML', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 1st - 2nd September 2023.
- Vishnu. R, **K. Indira, M. Nagabhushanam** – 'Convolutional Neural Network Based Lossless Compression of Hyperspectral Images on FPGA Platform', 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), Bengaluru, India, 2023, 1st - 2nd September 2023.

Guest Lecture/s - Invited

- **Dr. Madhan Kumar Srinivasan**, NDAi World and Hue Learn, Singapore, 'Metaverse Opportunities', 10th August 2023.

Achievements, Awards/Prizes by Faculty and students

- **Dr. Sujatha B** received IEEE achievement Award for year 2023 for the successful establishment of societies and affinity groups in the campus.
- **Dr. Deepali Koppad** has provided technical consultancy on 'Development of Digital Power Supply' to Digitek Scientific Instruments, Bangalore, for a fee of Rs.0.944 Lakhs during July – September 2023.
- **Dr. Suma K V** has provided technical consultancy on 'Artificial Intelligence and Data Analytics' to Alvolved Technologies Pvt Ltd, Bangalore, for a fee of Rs. 0.5 Lakhs, during July – September 2023.

Student Achievements

- **Deepika R Sharma** M Tech (VLSI) - Best paper award was received 'Electrohysteroqram System with Remote Assistance for Pregnant Women' in 2023 International Conference on Network, Multimedia and Information Technology (NMITCON), organized

by NMIT, Bangalore and held on 1st – 2nd September 2023.

- **Dharini Raghavan, Ajey Kalagi, Supreet Bajannavar and Bhavani V S** (UG students) won 'Best project of the Year' at Karnataka State level competition in 46th series SPP 2023, held at Mudubidire on 11th – 12th August 2023, under the guidance of Dr. C G Raghavendra.

Faculty who obtained Ph.D. degree



• **Sara Mohan George** was awarded Ph.D. degree by VTU in June 2023 for her work on 'Approximations in Nonlinear Filtering: Some Novel', under the supervision of Dr. S Sethu Selvi, Professor, Dept. of ECE, RIT, Bangalore.

- **Sadashiva Chakrasali**, was awarded Ph.D degree from VTU, under the Guidance of Dr. K. Indira, for his research work titled 'Statistical Modeling and Synthesis of Kannada Speech'.



DEPARTMENT OF CHEMICAL ENGINEERING



- Organized one-day seminar on "Biomaterials for Drug Delivery and Tissue Engineering Applications" at Ramaiah Institute of Technology, Bangalore on 24th July 2023. The guest speakers were Dr. Elzbieta Pamula, Professor and Dean of Science, and Dr. Aneta Zima, Professor and Vice-Dean of Science, AGH University of Science and Technology, Krakow, POLAND.

Publications in (National/International) Journals

- R. C. Sobti, **Archana Narula**, and Ahalya Naidu - 'Science and Research during Pandemic, Covid-19, Learning from the COVID-19 Pandemic', Book Chapter, September 2023, 10.1201/9781003358909, Taylor and Francis.
- Prathiba Rex, Mohammed Kalil Rahiman1, Praveen Barmavatu, **Sai Bharadwaj, Aryasomayajula, Venkata Satya Lakshmi**, Nagaraj Meenakshisundaram - 'Catalytic pyrolysis of polypropylene and polyethylene terephthalate waste using graphene oxide-sulfonated zirconia (GO-Szr) and analysis of its oil properties for Bharat Stage VI fuel production', Environmental Quality Management, Sept. 2023, 10.1002/tqem.22106, Wiley.
- **Jammula Koteswara Rao, J.S. Sagar, G.M. Madhu** and Dixit Pradiptkumar - 'Investigation of the Synthesis, Characterization and Properties of Nano Cu₂Zr₃O₇ – HDPE Composite Sheets, Research Journal of Chemistry and Environment, Sept. 2023, <https://doi.org/10.25303/2709rjce920101>.
- **Koteswararao Jammula, Madhu GM, V Venkatesham**, and Venkata Satyanarayana Suggala - 'Investigation of Tensile Strength and Modulus of PVA/CuO/CdS Nanocomposite Films using Mathematical Models', Journal of Mines, Metals and Fuels, September 2023, DOI: 10.18311/jmmf/2023/34740, Informatics Journals.
- **Rajeswari M. Kulkarni**, Bedanta Sarkar, Karan Modhvadiya & Sartha Patil - 'Process intensification of microwave-assisted, acetylation reaction of glycerol to synthesize fuel, additives using porcine pancreas lipase catalyst', Biofuels, August 2023, <https://doi.org/10.1080/17597269.2023.2244325>, Taylor and Francis.
- Manjunath.R, **Archana Narula and Siva Kiran RR** - 'Palm Oil Sludge Biodiesel Production and Optimization using Box Behnken Design', Journal of Mines, Metals and Fuels, Vol. 71(6), 2023, Pg. 743-750, 10.18311/jmmf/2023/32047, Informatics Journal.
- Halima R, and **Archana Narula** - 'Kinetics of immobilized alpha amylase impregnated with silver nanoparticles in Egg membrane for enhanced starch hydrolysis', Egyptian Journal of

Chemistry, Vol. 66(2), 2023, Pg. 1-12, 10.21608/EJCHEM.2022.110860.5050, Egyptian Chemical Society.

Paper Presentation in National/International Conference

- **Ms. Sarah Fatima** presented a poster on – 'Green Chemistry Solutions for a sustainable Future', during the three-day International Conference organized by the Department of Chemistry during September 20th to 22nd 2023, at GSS, Gitam, Bengaluru.
- **Mr. Vijayakumar, Nagendra Babu, Akshay G, Swastik Singh** - secured 4th place for the project titled, 'Green Alternatives: Harnessing Biomass for valuable Chemicals' in Demo day exhibition / poster presentation held on 17th August 2023, at RIT, Bengaluru.

Guest Lecture/s – Invited

- **Dr. Vadiraj S Gopinath MD** – Vachichem Pvt. Ltd. Peenya, Bangalore – 'API and Bulk Drugs in Pharmaceutical Industry' on 04.10.2023.
- **Ms. Nirmala Mahesh and Team**, Health and Wellness, Coach, 'Health and Wellness' on 04.08.2023.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT

Publications in National / International Journals

- Chethan Kumar G, Soundarya N, **R. Shobha** and Subashchandrabose – 'Analysis of a composite over wrapped pressure vessel by analytical and finite elemental approach', Journal of Mines, Metals and Fuels, Vol. 71(7), Pg. 1002-1007, 2023, DOI: 10.18311/jmmf/2023/34787. Print ISSN: 0022-2755
- **R. Shobha**, G J Naveen, P Sampathkumaran, A. Sathyanarayanawamy, R K Kumar, P T Bindagi & P G Mukunda – 'Novel HVAF Coatings for tribological behaviour – A review', Journal of Mines, Metals and Fuels, Vol. 71(7), Pg. 997-1001, DOI: 10.18311/jmmf/2023/34786.
- Harish N, Kiran Aithal, **Hamritha. S**, K Ramesh Babu. N and AyushiChatterji – 'Study on process parameters of centrifugal cast Al17 wt%Si and

predicting the mechanical and tribological properties using machine learning algorithms', Journal of Mines, Metals and Fuels, Vol. 71(6), Pg. 751-757, 2023, DOI: 10.18311/jmmf/2023/34490, Print ISSN: 0022-2755.

- **C. A. Niranjan**, T. Raghavendra, Madhuri P. Rao, C. Siddaraju, M. Gupta, Vikram Kumar S. Jain, R. Aishwarya – 'Magnesium alloys as extremely promising alternatives for temporary orthopedic implants – A review', Journal of Magnesium and Alloys, Vol. 11(8), August 2023, Pg. 2688-2718, Elsevier Publication, Science Direct, <https://doi.org/10.1016/j.jma.2023.08.002>.
- **C. A. Niranjan, R. Shobha**, N.R. Prabhuswamy, H.M. Yogesh, Vikram Kumar S Jain – 'Reciprocating dry sliding wear behaviour of AZ91/Al₂O₃ magnesium nanocomposites', International Journal of Arabian Journal for Science and Engineering, Research Article, Mechanical Engineering, <https://doi.org/10.1007/s13369-023-08216-7>, Published online: 2nd September 2023.
- AbhimanDebnath, **Siddhartha Kar**, Uttam Kumar Mandal, VidyutDey – 'Experimental investigation and multi-response optimisation of end milling in aluminium-5083 alloy using desirability analysis', International Journal of Manufacturing Research, Vol.18(3), Aug. 2023, pp. 284 – 310, DOI: 10.1504/IJMR.2023.132834, Inderscience Publishers.
- **Vivian Viegas, Dr. Shobha. R, Dr. Sridhar. B.S** – 'Synthesis and characterization of sandwich bamboo layer with areca fiber – Automobile Applications', Eur. Chem. Bull. Vol. 12(12), 2023, Pg. 2157-2165.

Publications in National / International Conference

- **Dr.C.A.Niranjan** – 'Influence of friction stir processing on microstructure and mechanical properties of as-cast magnesium alloy nanocomposites', at the 29th International Conference on 'Processing and Fabrication of Advanced Materials' Smart Next Gen PFAM: Technology & Innovation Landscape, held at IIT Tirupati on 6th to 8th September 2023.

Guest Lecture/s – Invited

- **Shri Prasanna Hatti**, Practice Head Health Edge, Bengaluru - Current Trends in Industrial Engineering, Opportunities and Challenges, 10/08/2023.

- **Shri Praveen K N**, Special Land Acquisition officer, BDA, Bengaluru - Leading with Purpose, Unlocking the Potential of Effective Leadership, 17/08/2023.

Funded Project

- **Dr. Sridhar B.S** - 'Synthesis and characterization of sugar cane bagasse sandwiched polymer composite - Green Manufacturing' Rs. 5,25,000/- 2 yrs., RIT Seed funding.

Achievements

- **Bharath G** - 1MS19IM012 bagged 'Best Outgoing Student Award 2023'.
- **Bharath G** - 1MS19IM012, Prathik P, 1MS19IM033, Rishav Jain, 1MS19IM037, Sridhar N - 1MS19IM049 was awarded 1st prize for best project title 'Ergonomic design and development of fodder cutter for agricultural application', under the guidance of Dr. M. Rajesh.
- **Viegas Vivian Nickson** - 1MS21MIE03 bagged first prize for the best project title 'Novel advanced composite bamboo structural members with areca fiber synthetic matrices for automobile applications', under the guidance of Dr. R. Shobha & Dr.Sridhar B.S,
- **Ayushi Chatterjee** - 1MS19IM010, **Janhavi Kiran Palkar** - 1MS19IM021, **Kavya, Madhusudhan-1MS19IM023, Samay Singhal** - 1MS19IM042 bagged first prize for the best project titled 'Ergonomics study on the operator in the loading section of a manufacturing industry to mitigate musculoskeletal disorders', under the guidance of Dr. M. Rajesh. and second prize for **Dev Prayag Tharad** - 1MS19IM014, **G M Chidananda Swamy** - 1MS19IM015, **Sankeertana K S** - 1MS19IM043, **Santosh Pai K** - 1MS19IM044 project titled 'Mitigating the effects of static electricity produced by hydraulic fluids in aircraft', under the guidance of Dr.Niranjan.C.A, in the Open Day Project Exhibition 'PRADARSHANA 2023' held on 15th May 2023.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- Need base India school students organized by IEEE Computer SOCIETY, WIE, SIGHT AND IIC, RIT on 8th July 2023.

Publications in (National / International) Journals

- **Patil, V. R., Kanavalli A-** 'Horizontal trajectory based mobile multi-sink routing in underwater sensor networks', International Journal of Electrical and Computer Engineering (IJECE), Vol. 13(3), 2023, pp. 3056-3071.
- **Pradeep Kumar, D. Kanavalli A., Sowmya B. J** - 'House Gecko Optimization Algorithm for High Dimensional Clustering', International Journal of Wavelets, Multiresolution and Information Processing, 2023.
- **Pujar, M. Mundada, M. R. Sowmya, B. J. Supreeth S., & Shruthi G** - 'An Efficient Framework for Web Content Mining Systems Using Improved CD-PAM Clustering and the A-CNN Technique', SN Computer Science, Vol. 4(5), Pg. 692, Sept. 2023.
- **Shruthi G., Mundada M. R., Supreeth S., & Gardiner B** - 'Deep learning-based resource prediction and mutated leader algorithm enabled load balancing in fog computing', International Journal of computer networks and information security, Vol. 15(4), 2023, Pg. 84-95.
- **Mundada, M. R** - 'Optimized Farming: Crop Recommendation System Using Predictive Analytics', International Journal of Intelligent Engineering & Systems, Vol. 16(3), 2023.
- **Ganeshayya Shidaganti, Shubeeksh Kumaran, Vishwachetan D and Tejas B N Shetty** - 'Deep Learning Driven Web Security: Detecting and Preventing Explicit Content', International Journal of Advanced Computer Science and Applications, (IJACSA), Vol. 14(10), 2023.
- **Dr. Mallegowda M** - 'Cloud Storage Monitoring Using File Access Pattern and DeDuplication Techniques', Journal European chemical Bulletin, Vol. 12(8), 2023, PP. 2728-2742.
- **K. S Anusha, Prasad, Chandria. Kallimani, Jagadish S, & D S. Jayalakshmi** - 'Canarese Real Time Text to Speech System using Concatenation Technique', Grenze International Journal of Engineering & Technology (GIJET), Vol. 9(2), July 2023.
- **Akshata Bhayyar S, Kiran P & Sushma Bylaiah** - 'Predicting Human Personality using Multimedia by

Employing Machine Learning Technique,' Sept. 2023.

- **Nandini S B** – 'Lightweight HTTP Flood Defense in SDN with Time-Based Analysis', Eur. Chem. Bull., Vol. 12(10), 2023, Pg. 10462-10468.
- **Soumya C. S., Manjula L., Pallavi N** - 'Enhanced Supervision of Indoor Surveillance Video Using Deep Learning', Eur. Chem. Bull, Vol. 12 (10), 2023, Pg. 12716-12725.
- **Vaishali Sontakke, Dayananda R. B** – 'Memory aware optimized Hadoop MapReduce model in cloud computing environment', International Journal of Artificial Intelligence, Vol. 12(3), 2023, ISSN: 2252-8938,

Paper presentation in National / International Conferences

- Rajarajeswari S., Shankar M. P., Kaustubha D. S., Kampli K., & Manohar M - 'Multimodal Recommendation Engine for Advertising Using Object Detection and Natural Language Processing. In Advances in Data-driven Computing and Intelligent Systems', Selected Papers from ADCIS 2023, Vol. 2, pp. 643-655. Singapore, Springer Nature Singapore.
- Parkavi A., Tiriya Y., Borthakur P. J., Patil P., & Haleem M. B. – 'Deep Learning Techniques for the Detection and Classification of Oral Cancer Using Histopathological Images', International Conference on Circuit Power and Computing Technologies (ICCPCT), pp. 1625-1630, 2023, IEEE.
- Parkavi A., Shetty T. B., Shibu S. G., Ismail R., & Muthirakalayil R. A. – 'Customer Feedback Analysis Based on Emotion Detection Using Machine Learning Techniques with Privacy Preservation', International Conference on Circuit Power and Computing Technologies (ICCPCT) pp. 1617-1624, IEEE, August 2023.
- G. Shidaganti, P. Harebailu, K. K. K, M. Akmal and N. D – 'Unlocking the Mysteries of Speech: A Hybrid RNN-CNN Model for Vocal Language Identification', IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Mangalore, India, 2023, pp. 37-42.
- Goudar S. R., & Shidaganti G. – 'Multi-Parameter Based Educational Recommendation System for Online Courses: A Content Based Filtering Approach',

International Conference on Network, Multimedia and Information Technology (NMITCON), 2023, pp. 1-7, IEEE.

- Manjula L., & Raju G. T – 'Twin eye Authentication Gateway Architecture Resilient to DDoS attacks in 6LoWPAN IoT Network Using Machine Learning Techniques', International Conference on Network, Multimedia and Information Technology (NMITCON), pp. 1-7, IEEE, September 2023.

Guest Lecture/s – Invited

- **Dr. Nithin Nagaraj**, Associate Professor, School of Humanities, NIAS, IISC, "Chao's Theory", 18th August 2023.

Faculty who obtained Ph.D. degree



- **Mallegowda M**, obtained doctoral degree for the research work on 'Design and Development of Service Oriented Architecture based Middleware Solutions for IOT' from Visvesvaraya Technological University, Belagavi, Karnataka, India, under the guidance of Dr. Anita Kanavalli, RIT on 1st August 2023.

- **Sushma B**, obtained doctoral degree for the research work on 'Advanced Data Analysis and Data Mining Model for Anthrax in Livestock an approach towards animal healthcare', Visvesvaraya Technological University, Belagavi, Karnataka, India, under the guidance of Dr. Seema S, RIT on 1st August 2023.



DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

- Organised a seminar on 'Early Career Mentorship Program', resource persons are Asha R & AnshumanKhandual, ARM India on 5th August 2023.

Publications in (National / International) Journals

- **Jyothirmayi M.**, et al – 'Early Detection and Analysis of Anxiety in Adolescents', Mathematical Models

- and Computer Simulations, Vol. 15(5), Pg. 956-967, Sept. 2023.
- **Jyothirmayi M.**, et al, - 'Smart Operating Range Monitoring of Solar PV Cell with Integrated Phase Change Materials by Using Solar Deep Learning Model', Electric Power Components and Systems, Pg. 1-12, August 2023.
 - **H. S. Niranjana Murthy** et al – 'Cu(II) complex with 2-(p-thiomethyl phenyl)benzimidazole: Synthesis, Characterization and Antibacterial Activity', European Chemical Bulletin journal, Vol.12(10), July 2023.
 - **H. S. Niranjana Murthy** et al., - 'Design of Sensor Node for Drainage Blockage Monitoring System', International Journal of Intelligent Systems and Applications in Engineering, Vol. 11(4), Pg. 272-280, Sept. 2023.
 - **ElavaarKuzhali S** et al., - 'High Performance Multiplier Using Reversible Logic For Single Precision Floating Point Numbers', Eur. Chem. Bull., Vol. 12(8), August 2023, Pg. 6532-6538.
 - **Haider N. S.**, & Behera A. K. – 'Computerized respiratory sound based diagnosis of pneumonia', Medical & Biological Engineering & Computing, (2023). Pg. 1-12.

Faculty Achievement

- **Dr. J V Alamelu**, Reviewer for 2023 Innovations in Power and Advanced Computing Technologies conference, to be held at VIT, Vellore.
- **Dr. Christina Grace**, filed patent titled 'Device and method for manipulating wetting behavior of a conductive droplet on a solid surface'.
- **Dr. Nishi S Haider** reviewed papers for the SCIE Journals (Web of Science) listed: i) International Journal of Chronic Obstructive Pulmonary Disease, ii) Machine Vision and Applications, iii) Clinical Epidemiology, iv) Computers in Biology and Medicine, v) Scientific Reports, vi) Physiological Measurement.

Student Achievement

- **Varsha K**, VII semester, achieved coveted rank of Winzera wellness Business Developer from Winzera Pvt. Ltd.

- **Varsha and Bharath Gowda**, VII semester, semi-finalists of the contest 'The Inventors Challenge -2023' for the project titled 'Identification and detection of freshness and chemicals in edible fishes', Mentor for the contest is Dr. J V Alamelu.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Publications in (National / International) Journals (Faculty)

- Vinutha K, **Yogish H K** – "Cluster based Approach of Student's Employment Prediction using PSO & EP", International Journal of Intelligent Systems and Applications in Engineering' ISSN:2147-6799/21, Jan 2023.
- S R Mani Sekhar, C. Tejas, V. S. Navneet Kanna, Aasees Kaur – "Finding exoplanets using object detection", Astrophysics and Space Science, Springer. September 2023.
- Asrarulhaq Maktedar, Prathima MN - "Third Eye: TTS and Deep Learning-based Assistive Technology for Blind", Grenze International Journal of Engineering & Technology (GIJET), 2023, Vol. 9 Issue 1, p115-122. 8p
- M. Rudra Kumar, Anitha P, Ashwitha A, P. Venkateswarlu Reddy, H. Manoj T. Gadiyar - "Automated Cotton Leaf Identification Using Feature Selection Techniques", International Journal of Intelligent Systems and Applications in Engineering 11 (11s), 410-415, 2003
- Sumit Vikram Tripathi, Sumana M – "Anomaly Detection System for Wireless Sensor Networks using Machine Learning", European Chemical Bulletin, 2023, 12 (issue 8), 8989-8998

Funded Project

- **Dr. Sumana M** – "NLP Based Solutions for Spacecraft Mission Health Management and Operations", Funding Agency – ISRO, Amount - ₹ 9,10,815/-

Education is the best friend. An educated person is respected everywhere. Education beats the beauty and the youth."

– Chanakya

DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

Publications in National / International Journals

- **Sriraam N** - Review of the Requirements for a Wearable, Low-Cost External Cardiac Loop Recorder with WBAN in Resource-Constrained Settings, Critical Reviews™ in Biomedical Engineering, DOI: 10.1615/CritRevBiomedEng.202304533.
- **Sriraam N**- Signal Processing Framework for the Detection of Ventricular Ectopic Beat Episodes, J Med Signals Sens. 2023 Jul-Sep 2023, Vol. 13(3), Pg. 239–251. DOI: 10.4103/jmss.jmss_12_22.
- **Uma Arun, N Sriraam** - Real time Evaluation of Cardiac Activities Using Multi Features with KNN Classifier - A Pilot Study, Journal of Physics, Conference Series, Volume 2571, 2nd International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2023) 16/02/2023 - 17/02/2023 Manipal, India Citation U Arun et al 2023 J. Phys.: Conf. Ser. 2571 012014, DOI 10.1088/1742-6596/2571/1/012014.
- **N Sriraam** - Automated Recognition of Congenital Heart Defects (CHD) from Ultrasonic Fetal Heart Biometry, Journal of Physics Conference Series, Vol. 2571(1), October 2023, Pg. 012015, DOI: 10.1088/1742-6596/2571/1/012015(Scopus).
- **C K Narayanappa** - Power Optimized VLSI Architecture of Distributed Arithmetic Based Block LMS Adaptive Filter, International Journal of Electrical and Electronics Research, Vol. 11(3), 2023, Pg. 766–772.

Guest Lecture/s Invited

The following Guest Lectures are arranged on 19-08-2023.

- **Mr. Chandan Kumar Mishra**, R & D Software Architect Nokia – '5G in Healthcare'
- **Mr. Prithviraj S J**, Sleep Technologist and VP-Business Development, SleepMed Solutions Private Ltd., Bengaluru – 'Introduction to Sleep Medicine - Opportunities for Medical Electronics Engineering in Sleep Medicine' (With demonstration).

Guest Lecture delivered by the department faculty

- **Dr. N Sriraam** - 'Wearable Electronics in Healthcare-an insight', at ACS College of Engineering, Bengaluru on 11.08.2023

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Publications in National / International Journals

- Swetha Amit, **Viswanath Talasila**, Ramya T R, Sashidhar R, Frequency Selective Surface Textile Antenna for Wearable Applications, Wireless Personal Communications, 132, 965–978, 2023.
- S. Rakhi and **K. R. Shobha**, "LCSS Based Sybil Attack Detection and Avoidance in Clustered Vehicular Networks," in IEEE Access, vol. 11, pp. 75179-75190, July 2023, doi: 10.1109/ACCESS.2023.3294469publisher: Institute of Electrical and Electronics Engineers Inc,

Paper Presentation in National / International Conference

- Vijaya kumar B P, Pallavi L V, **Kusuma S M** - "Deep machine learning based Usage Pattern and Application classifier in Network Traffic for Anomaly Detection" 2023 International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS) , 19-21 April 2023 DOI: 10.1109/ICAECIS58353.2023.10169914.

Guest Lecture (Invited)

- **Mr. Sayanatan Mukherjee**, Member Senior Research Staff in CRL, Bharath electronics Ltd. Delivered a lecture on ""Electromagnetic waves-Industry perspective"" on 7th july2023.

Guest Lecture delivered by the department faculty

- **Dr. Shobha K R** delivered 5 sessions from 28th August to Sep 4th 2023 as part of one-month internship conducted by IETE Bangalore on "IoT and Embedded Systems".
- **Dr. Shobha K R** delivered 4 sessions from 14th August to 18th August 2023 as part of one month internship conducted by IETE Bangalore on "IoT and Embedded Systems".

Funded Project

- **Dr. Viswanatha Talasila** – 'Enabling functional mobility through advanced gait analysis', sponsored by BIRAC Rs. 21.4 lakhs
- **Dr. Shobha K R, Dr. Parimala P, Nisha S L** – 'Design, Development and Prototyping of High Accuracy NavIC Receiver for Rapid Topographic Survey' sponsored by DST – Device Development Programme Rs. 52.58 lakhs.
- **Dr. Vijaya Kumar B P, Kusuma S M, Dr. Sumana M, Dr. Dinesh P A** - "Use of Artificial Intelligence(AI) Expert Systems(ES) Machine Learning (ML) in Mission operations" sponsored by ISRO-RESPOND, Rs. 16,94,880.

Achievement/s, Awards/Prizes by Faculty/Staff/Students

- **Dr. Shobha K R** received IEEE CONECCT 2023 champion award for outstanding services towards organizing and technical contributions for the 9th International conference on Electronics, Computing and Communication technologies held at RIT from 14th -16th July by IEEE Bangalore Section.

Faculty who obtained Ph.D degree

- **Smt. Rakhi S** - Research center ETE has been awarded Ph.D. degree for her research work on "Detection and avoidance of security attack in vanet" under the guidance of **Dr. Shobha K R**.
- **S M Kusuma**, Assistant Professor awarded Ph.D degree from Reva University (2023) for the research work on "Investigation of Deployment Challenges of Sensors and Development of Machine Learning Methods in Wireless Embedded Computing Environment" under the guidance of Dr. Veena KN, Associate professor, E & C department, Reva university, Bangalore.

"The function of education is to teach one to think intensively and to think critically. ... Intelligence plus character—that is the goal of true education."

— Martin Luther King Jr.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING) (CYBER SECURITY)



- Conducted workshop on 'Cybersecurity Awareness and Recent Attacks for Diploma Students' on Sept. 22nd and 23rd 2023.



- One-week FDP titled Boot Camp Program on Python for faculty members of non-CS departments from 19th to 23rd Sept. 2023.

Publications in (National / International) Journals

- **Dr. Mohana Kumar S, Snehalatha N and Kachroo** – 'Customer Segmentation and Profiling For E-Commerce Using DbSCAN and Fuzzy C-Means' Pes Proceedings on Engineering Sciences journal, Vol. 3, 2023, DOI: 10.24874/PES 05.03.016.

- Gowda B, Putta Bore and Chandrashekar, R and **Mohana Kumar S** – 'Comparative analysis of carbon particle emissions from exhaust of an IC engine using HSD and blends of HSD and Honge/Jatropha biodiesel', Journal of Thermal Engineering, Vol. 9, 2023, Pages 1070 - 1077, DOI:10.18186/thermal.1334240.
- **Dr. Mohana Kumar S** and Mr. Chandrashekar P – 'Detection of Wide Varieties of Cheating Behavior for Online Examination', Journal of Scholastic Engineering Science and Management, Vol. 2, 2023, Page. 60-68, DOI:10.5281/zenodo.8275333.
- **Dr. Thippeswamy M N**, Yogaraja GSR and Dr. Venkatesh K - 'An Energy - Efficient Task Scheduling in the Cloud with R-DEF and LC-GTO Based on VM Availability Identification', Journal of Data Acquisition and Processing, Vol. 38(3), 2023, Pg.1004-9037.

Guest Lecture delivered by the department faculty

- **Dr. M N Thippeswamy and Shubha Vibhu Malige** Resource persons for two-days workshop on Cybersecurity Awareness and Recent Attacks for diploma students of Ramaiah Polytechnic on September 22nd and 23rd 2023.

DEPARTMENT OF BIOTECHNOLOGY



- Organized a Three Days Hands-on workshop on 'Insilco Drug Discovery' from 10th – 12th 2023, under Student Chapter (IEI), RIT, Bengaluru for the benefit of Under Graduate & Post Graduate students. This intensive workshop was tailor-made to elucidate the union of theoretical concepts with laboratory component.

Publications in International Journals

- **Divyashri, G. & T.P. Krishna Murthy** – 'Valorization of coffee bean processing waste for the sustainable extraction of biologically active pectin', Heliyon, Vol. 9, 2023, Pg. e20212, 1-17.
- **Divyashri G., T.P. Krishna Murthy & Dr. Priyadarshini Dey** – 'Non-digestible oligosaccharides-based prebiotics to ameliorate obesity: Overview of experimental evidence and future perspectives', Food Science and Biotechnology, Vol. 32, 2023, Pg. 1-19, 1993 – 2011.

Funded Projects Ongoing

- **Dr. Chandra Prabha M N** – 'Designing novel antimicrobial and quorum quenching ceramic coating materials to impede in infections in medical implants (SPARC-MHRD)', Rs.54.29 Lakhs.
- **Dr. Samrat K & Dr. Priyadarshini Dey** - 'Investigation of anticancer potential of nanosulphur against ovarian cancer', RIT Seed Funding, RIT 2023, Rs. 5 Lakhs.
- **Dr. Abhijith S R** - 'Role of ZIC1(Zink finger of the cerebellum) in the progression of triple negative breast cancer', VGST (K-FISTL1)DST/ KSTePS/2021-2022 dated 14.02.2022, 15.0 Lakhs
- **Dr. Divyashri G** – 'Coffee Waste Utilization for the production of food oligosaccharides', RIT Seed Funding, RIT, Rs. 3.30 Lakhs.
- **Dr. Bindu S** – 'Development of an antimicrobial lock therapy solution for control of candida albicans under flow conditions', KSCST, Rs. 4.50 Lakhs.
- **Dr. Bindu S & Mrs. Vijayalakshmi V** - 'Development of a Biocompatible Poly (L-Lactic Acid) - Chitosan hydrogel scaffold for neuronal regeneration', Ministry of Science & Technology, DST, Rs. 32.90 Lakhs.
- **Dr. Bhavya S G** - 'An investigation of the role of S-acylation in cardiac hypertrophy – proteomics, site-specific mutation and molecular dynamics simulations approach', DST, SERB- TARE, Rs. 18.30 Lakhs
- **Dr. Chandra Prabha M N & Mrs. Monika P** – 'A biological strategy to enhance chronic wound healing in patients using Human Autologous Platelet – Rich Plasma', RIT Seed Funding, RIT, Rs. 2.6 Lakhs

- **Dr. Chandra Prabha M N & Dr. Harikrishna R** –'Design of structurally modified nanoceria with enhanced haloperoxidase activity to combat sulphate reducing bacteria (SERB) induced biocorrosion: A biomimetic approach to combat microbiologically –influenced Corrosion (MIC) of marine structures'. DST, CRG, Rs.41.83 Lakhs.
- **Dr. Chandra Prabha M N & Dr. Harikrishna R** –'Designing of Novel Biocompatible and Multifunctional Nano Ceramic Coatings for Medical Implants', VGST-KFIST L2, Rs.30.0 Lakhs.
- **Dr. Lokesh K N** –'Stimuli Responsive Polymeric Particles Containing Iron (III) Chelating Bioactive Ligands for Mitigation of Intracellular Labile Iron Pool (LIP)', SERB, DST, TARE, Rs. 18.30 Lakhs.

Achievement/s, Awards/Prizes by Students

- **Prajwal T**, VII semester, won 3rd place in 'Swimming Relay Medley 4x100' Inter collegiate State Level Tournament held at MSRTI, Bangalore on 9th August 2023.
- **Rishita Thairani & Sharanya B Upadhyaya**, VII semester, have presented a paper in the Fourteenth International Conference on computing, Communication and Networking Technologies, held at IIT-Delhi, in association with IEEE Electronics packaging Society, during 6th – 8th July 2023
- **R Anantamurthi Y**, IV semester, participated VTU B'lore Central Zone Football Tournament held at Dr. AIT, Bangalore on 23rd & 24th August 2023.

DEPARTMENT OF MATHEMATICS



- Prize Distribution Ceremony of 'Annual Mathematics Quiz (MQ & MQ +) - 2023' for I & II year B.E. students

Publications in (National / International) Journals

- **Dr. Monica Anand** - 'Sex-disaggregated Analysis of Risk Factors of COVID-19 Mortality Rates in India', The Open Public Health Journal, Vol. 16, 2023, Pg.1-11.
- **Dr. Srikantha N & Soniya Hegde** - 'Numerical investigation of heat and mass transfer of the Sisko fluid in a wire-coating process with variable fluid properties', PhysicaScripta, Vol. 98 (10), 2023, Pg. 105221.
- **Dr. Aruna A S & Dr. M S Basavaraj** - 'Onset of Stability and Heat Transfer by Rayleigh-Bénard Magnetoconvection with Variable Viscosity Effect Using Ginzburg - Landau Model, Effect of Thermal / Gravity Modulation', Heat transfer, Vol. 83 (4), 2023, Pg. 176-191.
- **G Sowmya** - 'Heat transfer analysis in a longitudinal porous trapezoidal fin by non-Fourier heat conduction model: An application of artificial neural network with Levenberg-Marquardt approach', Case Studies in Thermal Engineering (Elsevier), Vol. 49, (2023), Pg.103265.
- **G Sowmya** - 'Implication of radiation on the thermal behavior of a partially wetted dovetail fin using an artificial neural network', Case Studies in Thermal Engineering (Elsevier), Vol. 51, (2023), Pg. 103552.
- **G Sowmya** - 'Artificial Neural Network Modeling for Predicting the Transient Thermal Distribution in a Stretching/Shrinking Longitudinal Fin', ASME Journal of Heat and Mass Transfer, Vol.145 (8), (2023), pp.083301.

Guest Lectures Invited

- **Dr. Vittal Rao**, Former Professor, IISc., Bengaluru, - 'The Language God Talks' on 04.08.2023.

"I believe that education is all about being excited about something. Seeing passion and enthusiasm helps push an educational message."

— Steve Irwin

DEPARTMENT OF CHEMISTRY



- Conducted a program called 'Interaction with Scientist', in which, Prof. Shibban K Koul, Emeritus Professor Electronics and Communication, Indian Institute of Technology, Delhi, participated and interacted with research scholars on the topic 'Interdisciplinary approach in Technology Development', on 25-07-2023.



- In association with Luminescence Society of India: Karnataka Chapter (LSIKC), an innovative program called 'My Research Journey' was conducted on 05-08-2023. In which Dr. Zulfiqar Ahmed obtained Ph.D degree (JNTU-Ananthapur) under the supervision of Dr. B M Nagabhushana, shared his research experience with young research scholars.



- R & D center, Department of Chemistry, conducted a program called 'Interaction with Scientist', in which, research scholars of the department interacted with Dr. Abhijit, Postdoctoral Fellow, Department

of Polymer, Fibers and composites, RISE Research Institute of Sweden, on the topic 'Technically useful polymer composite materials for Engineering application' 12-08-2023.



- In association with Birsa Agricultural University, Ranchi, Jharkhand and 'Grama Vikas- Gudibande', Luminescence Society of India: Karnataka Chapter (LSIKC) initiated a project - 'A scientific study on up-taking of nutrients by plants from the soil with different farming techniques'. Under this, a program was conducted for the farmers on the subject 'Soil health & Soil fertility', on 20-08-2023 at Gudibande.



- One-day workshop on the topic 'Fertility of Soil and Agri tourism', program was conducted by Luminescence Society of India: Karnataka Chapter (LSIKC), at Honnagondanahalli, Sira Taluk, Tumkur – Dist, on 02-07-2023



- An outreach program 'Raitha Sambruddhi – Agri-tourism or Krushi Ashramas', 2 - days program was conducted by Luminescence Society of India: Karnataka Chapter (LSIKC), at Ammanaghatta, Gubbi, on 30-07-2023.

Publications in (National / International) Journals

- P Hareesh Kumar, **Nagaraju Kottam**, R Sowbhagya – 'Synthesis & cytotoxic activity of Bis (μ -chloro) bis (azobenzenyl analogue) di-palladium complexes', Journal of Materials Today: Proceedings, Vol. 89, Part 1, 2023, Pages 130-137.
- Eliza Ahmed, **Basappa C Yallur**, Vinayak Adimule, Sheetal R Batakurki - 'Recent Advances on Copper Based Metal Organic Framework as Heterogenous Catalyst in Organic Coupling Reaction: A Review', Engineering Chemistry, Vol. 3, 2023/7/20, Pg. 1-12.
- Maya Pai, Vinayak Adimule, **Basappa C Yallur**, Sheetal Batakurki – 'Synthesis, Characterization, Optical and Luminescence Properties of Copper Based Metal Organic Frame Works', Engineering Chemistry, Vol. 3, 2023/7/20, Pg. 19-30.
- Gangadhar Bagihalli, Nidhi Manhas, **Basappa C Yallur**, Sheetal Batakurki – 'Design, Enhanced Photoluminescence Properties of Ti Incorporated Zr-Networked 4-[Formyl (Hydroxymethylidene)-4-Sulfanyl] Benzoic Acid Metal Organic Frameworks', Journal of Advanced Materials Research, Vol. 1177, 2023/7/21, Pg. 77-85.
- HKiran, **Sampath Chinnam**, KKhanzada, – 'Evaluation of hypertension control among hemodialysis patients in Pakistan: a prospective follow-up study', Journal of Blood pressure monitoring,
- D Rajeshree Patwari, BN Swetha, **K Gurushantha** – 'Photocatalytic and antimicrobial activities of biofunctionalized Ag nanoparticles derived from combustion method', Journal of Results in Optics, Volume 12, July 2023, 100472.
- **Sharanabasappa B. Patil** and Neha Rao – 'Pharmacological Activities of Gongura (Roselle) Leaf: Recent Advances', Journal of Natural Remedies, Vol. 23(3), 2023/7.
- N. Srinatha Raksha Umashankar S. Harshitha Devi, **K. Gurushantha** – 'Improved photocatalytic, antimicrobial and photoelectrochemical properties of nanocrystalline Cu^{2+} -doped ZnO nanoparticles', Journal of Ceramics International, Vol. 49(13), July 2023, Pages. 22449-22459.
- N. Basavaraju S. Swamy, D.B. Aruna kumar, **K. Gurushantha** – 'Structural and Multiple Application Studies of Alkaline Earth Metal Spinel (AB_2O_4) Ferrites', asian journal of chemistry, Vol. 35(8), 2023/7/31, Pg. 1891-1998.
- Manikanta M, **Sampath Chinnam** - 'A new alternative synthesis method of rivaroxaban as a potential anti-coagulant drug: in silico screening, and ADMET properties', Journal of European Chemical Bulletin, Vol. 12(10), 2023/7/27, Pg. 1663-1686.
- **R Hari Krishna**, M N Chandraprabha, K Samrat - 'Carbon nanotubes and graphene-based materials for adsorptive removal of metal ions—A review on surface functionalization and related adsorption mechanism', Journal of Applied Surface Science Advances, Vol. 16, 2023/8/1, Pg. 100431.
- B. Archana, **Nagaraju Kottam**, S P Smrithi, K B Chandra Sekhar – 'Fabrication of 2D+ 1D nanoarchitecture for transition metal oxide modified CdS nanorods: A comparative study on their photocatalytic hydrogen-generation efficiency', Journal of Nanotechnology, Vol. 34(44), 2023/8/17, Pg. 445402.
- Nandeeshha Itigimath, Hadagali Ashoka, **Basappa C Yallur** – 'LC-MS/MS Method Development and Validation for Determination of Favipiravirin Pure and Tablet Dosage Forms', Journal of Turk J Pharm Sci., Vol. 20(4), 2023/8/7, Pg. 226-233.
- Nandeeshha Itigimatha, Basappa C Yallur, Manjunatha D Hadagali – 'Extractive spectrophotometric methods for the assay of oseltamivir phosphate, famciclovir and acyclovir in pure and dosage forms.', Journal of Indian Drugs, Vol. 60(8) 2023/8/1, Pg. No. 72-79.
- Adnan Ahmed, Irfan Mushtaq, **Sampath Chinnam** – 'Suzuki-Miyaura cross couplings for alkyl boron reagent: recent developments: a review', Journal of Future Journal of Pharmaceutical Sciences, August Vol. 9(67), 2023.
- Baqar Ali Quraishi, C Manjunatha, **Hari Krishna** – 'Studies on Electrochemical Performance of Flower-Like $\text{La}_4\text{Mo}_7\text{O}_{27}$ Nanostructures towards Oxygen Evolution Reaction', Journal of ECS Advances, Vol. 2(3), 2023/8/29, Pg. 030504.
- Sreya Bhaduri and Neha Rao **Sharanabasappa B. Patil** – 'Medicinal significance of Nigella sativa and

its seeds: recent updates', Journal of Int J Pharm Sci & Res. Vol. 14(9), 2023/9, Pg. 4277-84.

- Hanna S. Abbo, M. Y. Divine, Tariq Shah, Nader G. Khaligh, **Sampath Chinnam** – 'Curcuminoid Nanovesicles as Advanced Therapeutics', Journal of Chem Bio Eng Reviews, 2023/9/28, <https://doi.org/10.1002/cben.202200047>.
- Vinayak V Rao, Pradiptkumar Dixit, **R Hari Krishna**, K Ramakrishna Murthy – 'Experimental Investigation of Nano Al₂O₃ Filled Silicone Rubber Specimen Used in Outdoor Insulation', Journal of Surface Engineering and Applied Electrochemistry, Vol.59(4), Sept. 2023, Pg. 422-432.

Book Chapters

- Sapana Jadoun, **Sampath Chinnam**, Narendra Pal Singh Chauhan – 'Biosynthesis of nanoparticles using plant extract', Book Chapter, Publisher Elsevier, 2023/7/21, Pg. 101-117.
- T. P Krishna Murthy, **R Hari Krishna**, M. N Chandra Prabha, – 'Supercritical CO₂ Extraction as a Clean Technology Tool for Isolation of Essential Oils', Book Chapter of Essential Oils: Extraction Methods and Applications, 2023/7/14, Pg. 767-793.
- K Ankita Rao, Vaishakh Nair, G Divyashri, TP Krishna Murthy, **R. Hari Krishna** – 'Role of Lignocellulosic Waste in Biochar Production for Adsorptive Removal of Pollutants from Wastewater', Book Chapter of Advanced and Innovative Approaches of Environmental Biotechnology in Industrial Wastewater Treatment, 2023/8/1, Pg. 221-238.
- Sapana Jadoun, Narendra Pal Singh Chauhan, **Sampath Chinnam** – 'Polymers in cancer research and clinical oncology', Book chapter of Handbook of Polymers in Medicine, 2023/9/8, Pages.575-593.
- Sapana Jadoun, **Sampath Chinnam**, Amir Qureshi – 'Polymers in bone and orthopedic surgery', Book chapter of Handbook of Polymers in Medicine, 2023/9/8, Pages. 509-525.

Patents

- Boja Poojary, **Basappa C Yallur** -'A (2E)-1-substituted-3-([1,3] Thiazolo[3,2-A] Benzimidazol-3-YL) Prop-2-EN-1-one Chalcones composition and its preparation process thereof', Indian Patent,

Patent number: 202341022429, Date of Publication: 2023/7/4.

- G M Madhu, Sowmya S R, **Nagaraju Kottam**, **Sampath Chinnam** - 'Design patent: Eco-friendly hand pump water purifier', Indian patent, Patent Number: 391355-001, Published Date: 2023/7/23.
- **Sampath Chinnam**, - 'Artificial intelligence-based skin cancer inspection device', UK grant patent, Patent number: 6295341, Published date: 2023/7/17.
- **Dr. Basappa Chanabasappa Yallur, Dr. Sampath Chinnam** - 'Smart device for the analysis of metabolic disorders', UK grant patent, Patent number: 6303315, Published date: 2023/8/12.
- Santosh Nandi, **Basappa Chanabasappa Yallur**, Vinayak Adimule; - 'Substituted-3-([1,3] Thiazolo[3,2-A] Benzimidazol-3-YL) Prop-2-EN-1-one chalcones composition and its preparation process', Indian Patent, Patent number: 457595, Published date: 2023/10/9.
- Madhusudhanan J, Pinky D, **Sampath Chinnam** - 'Pediatric Auditory Brainstem Response Device', UK grant patent, Patent number: 6299150, Published date: 2023/8/14.
- **Sampath Chinnam** – 'Artificial intelligence device for prediction of diabetes', UK grant patent, Patent number: 6301395, Published date: 2023/8/14.
- **Sampath Chinnam**, Madhu Gattumane Moapa - 'Portable ultrasonic device for the development of nanoemulsions', German grant patent, Patent number: 202023103892, Published date: 2023/8/7.

Funded project

- **Dr. Nagaraju Kottam** - received grant from VTU for the project titled: Design and Development of Carbon dot (C-dot) Based Nanosensors: Detection of Environmentally and Biologically Relevant Metal Ions, sanctioned date: 18.02.2022, Amount: 700000/-.
- Dr. Chandra Prabha M N & **Dr. Harikrishna R** – received grant from DST, CRG, 'Design of structurally modified nanoceria with enhanced haloperoxidase activity to combat sulphate reducing bacteria (SRB) induced biocorrosion: A biomimetic approach to combat microbiologically – influenced Corrosion (MIC) of marine structures'. Rs.41.83 Lakhs.

- Dr. Chandra Prabha M N & **Dr. Harikrishna R** – received grant from VGST-KFIST L2, 'Designing of Novel Biocompatible and Multifunctional Nano Ceramic Coatings for Medical Implants', Rs.30.0 Lakhs.
- **Dr. M.N. Manjunatha**– received grant from VGST, Govt. of Karnataka -'Anticancer activity and molecular modeling studies of transition metal complexes with novel substituted benzimidazole derivatives'. Grant: Rs. 20,00,000.00

Guest Lecture delivered by the department faculty

- **Dr. B.M. Nagabhushana** – 'Conceptual discussion on Agri-tourism or Krushi Ashramas', 2 - days training program conducted for farmers by Luminescence Society of India: Karnataka Chapter (LSIKC), at Ammanaghatta, Gubbi, on, 30-07-2023.

DEPARTMENT OF PHYSICS

Publications in (National/International) Journals

- Tribikram Gupta, Sameer Kulkarni, **Kalpna Sharma** – 'A study of the permeation barrier of nanoporous Graphene', Materials Today: Proceedings, Vol. 89, (2023), pp 41-44.
- **Raveendra Melavanki**, Raviraj Kusanur, **Kalpna Sharma**, Kishor Kumar Sadasivuni, V. V. Koppal and N.R. Patil - 'Exploration of Spectroscopic, computational, fluorescence turn-off mechanism, Molecular Docking and in Silico Studies of pyridine derivative', Photochemical & Photobiological Sciences, Vol. 22, (2023), Pg. 1991-2003.
- Ujwal Shreenag Meda, Nidhi Bhat, Om Madan Raikar, Tribikram Gupta, **Kalpna Sharma** – 'Additives for lithium-ion batteries, Reference Module in Chemistry, Molecular Sciences and Chemical Engineering', Encyclopedia of Electrochemical Power Sources, 2nd Edition, (2023).
- B M Chandrika, **M R Ambika**, L Seenappa, H C Manjunatha, K N Sridhar, A J Clement Lourduraj, S Manjunath, P S Damodara Gupta - 'Synthesis and characterization of Lead-Nickel-Boron nanocomposite for radiation shielding application',

Radiation Physics and Chemistry, Vol. 213, (2023), pp 111187.

- Sherry ShajanKuttukaran, **M R Ambika**, C Malathi, N Nagaiah - 'DMSO-Bismuth polymer composite as gamma radiation shield-A computational study', Materials Today: Proceedings, Vol. 89, (2023), pp 75-83.

Paper presentation in National / International Conferences

- **Kalpna Sharma**, Tribikram Gupta, Kurt Pacheco, Vishal Nair – 'Study of the orientation dependency of the permeation barrier energy of water molecule through nanoporous graphene', International Conference on Green Chemistry Solutions for Sustainable Future 2023, GITAM University, Bengaluru Campus, India, 20th to 22nd September 2023.

Funded Projects

- **Dr. Sandhya K L** – 'Liquid crystal as matrices for nanomaterial assembly-manipulation' Science and Engineering Research Board (SERB) (Ongoing)

Grant: Rs. 29.52 lakhs

- **Dr. Sandhya K L** – 'Experimental investigations on developing LC nanocomposites for energy storage applications' VGST(Ongoing)

Grant: Rs. 15 lakhs

- **Dr. Ambika M R** - 'Flexible and Graded polymer composite radiation shields for medical applications' RIT SEED GRANT (Ongoing)

Grant: Rs. 3.90 lakhs.

DEPARTMENT OF HUMANITIES

Publications in (National/International) Journals

- **Dr. Premila Swamy D** – 'Negotiating Racism and Food Polemics: Axone as a Dietary Visual Discourse', Quarterly Review of Film and Video, Routledge, Taylor and Francis, ISSN 1543-5326, Online 2023.

- **Mrs. Kanyakumari .S** – 'Basava N Nanakaalada Praja prabutva haagu Samvidanadaamshaga Lu', IIMRD Peer-reviewed and referred journal, ISSN: 2582-2284, Vol. 4(6), May - June 2023.
- **Dr. Udayakumar. H.M** – 'Digital workplace: A conceptual model for better performance in the IT industry', Human Systems Management- an interdisciplinary, International, refereed journal. ISSN: 01672533, IOS Press BV Publication, pp. 515-525, September 2023, DOI: 10.3233/HSM-211593, Impact Factor: 2.368, Scopus indexed H-INDEX-29. - SJR Journal.
- **Mr. Diwakar. P** – 'Technology Integration in Teaching and Learning English Phonetics', JMMF, 6/23/2023, ISSN: 0022-2755.
- **Mr. Diwakar. P, Dr. Udayakumar. HM** – 'Impact of Job Satisfaction on Employee Performance: A Study with Reference to Biblical Management Principles', IUP Journal, 7/23/2023, ISSN: 0972-5342.

MASTER OF COMPUTER APPLICATIONS

Paper presentation in National / International Conferences: Name/s of the author/s who presented the paper.

- Sowmya K, **Sushitha S**, Shreya RK, Shifnaaz - 'Automatic Alarm Road-hazard prevention system for a Car- a prototype', International Conference on Multidisciplinary Research in Technology and Management-MRTM 2023, New Horizon College of Engineering, Bengaluru, Karnataka, India.
- VasanthaKumari N, Mounika Garimella, **Madhu Bhan** - 'Image Labeling Using Convolutional Neural Network', International Conference on Network, Multimedia and Information Technology (NMITCON), IEEE Xplore 2023, pp. 1-5, doi: 10.1109/NMITCON58196.2023.10275862.

Guest Lecture delivered by the department faculty

- **Dr. Manish Kumar** delivered a Talk on 'Cyber Security', from 11th to 12th September 2023, at BMS Institute of Technology and Management, Bangalore.

DEPARTMENT OF MANAGEMENT STUDIES

Publications in (National /International) Journals

- **Dr. T. Mohanasundaram** – 'Dynamic Connectedness and Volatility Spillover Effects of Indian Stock Market with International Stock Markets: An Empirical Investigation using DCC GARCH', in the Journal SciPap, Vol. 31(1), August 2023, Pg. 1691; <https://doi.org/10.46585/sp31011691>.
- **Dr. Deepak R, Dr. P V. Raveendra, Dr. Vaijanath Babshetti** – 'Calendar Anomalies in S&P BSE 100 ESG Index performance in India: An Examination of Day-of-the-Week Effect', European Chemical Bulletin, Vol. 12(1), Part-B, 2023, Page. 3696 - 3705. doi:10.31838/ecb/2023.12.s1-.371,,[https://www.eurchembull.com/issue?volume=Volume%20-12&issue=Special%20Issue-1\(Part-B\)&year-2023](https://www.eurchembull.com/issue?volume=Volume%20-12&issue=Special%20Issue-1(Part-B)&year-2023).
- **Dr. Vaijanath Babshetti, Dr. P V. Raveendra, Dr. Deepak R** - 'Safety of health care workers pre and post COVID-19: Lessons to be learnt', European Chemical Bulletin, Vol. 12(4), 2023, Page: 1895-1900, doi: 10.31838/ecb/2023.12.si4.159.

Paper presentation in International /National Conferences

- **Dr. Deepak. R** – 'Paraphrasing investment decisions in IPO based on machine learning models: A quantitative assessment', at the International conference on Emerging Trends, Challenges & Opportunities in Global Business, Management and Technology organized by Visvesvaraya Technological University, Department of Management Studies, Machhe, Belagavi, on 9th June 2023.

Guest Lectures Invited

- **Mr. Mohan Kumar**, WIPRO PRACTICE HEAD – 'How to select Specialization', 07-09-2023.
- **Mr. A. C. Manjunath**, AGM, Leitz Tooling System India Private Limited, Bangalore – 'Challenges & Opportunities in Marketing', 19-08-2023.
- **Mr. K. N. Praveen**, Special Land Acquisition Officer, BDA, Bengaluru – 'Leading with Purpose: Unlocking

the Potential of Effective Leadership', 17-08-2023.

- **Mr. P. Shashidharan**, Assistant General Manager, Reserve Bank of India – 'RBI and Indian Financial System', 07-08-2023.
- **Mr. Mohan Chandan**, Manager, Operations and Brand Alliance, My Gate – 'Leadership Enablement and Advancement Program', 22-07-2023.
- **Mr. Ramani Venkat**, NLP Trainer, Serial Entrepreneur – 'Innovation/Prototype Validation: Converting innovation to startup', 06-07-2023.

Funded Project

- **Dr. T. Mohanasundaram** – 'Leveraging the Habitual Skills and Culture of the Narikuravar Tribes in Tamil Nadu for Sports and Sustainable Development: Assessing the Efficacy of Supportive System', ICSSR, New Delhi.

Grant: Rs. 8,00,000/-

PLACEMENT & TRAINING

The Main Highlights - 2023 batch (ongoing)

Number of companies: 302 Companies

Total Number of Offers: 1383 offers

- **Highest Stipend:**
Atlassian: 1,30,000/- Per month
4 Students selected
- **Highest CTC:**
50 LPA
3 Students selected
- **International Placement:**
5000 AED / month), Dubai,
3 Students selected

The Main Highlights - 2024 batch (ongoing)

Number of companies: 87 Companies

Total Number of Offers: 286 offers

- **Highest CTC:**
26.65 LPA,
5 Students selected

NSS



- Organized Orphanage and Old age home visit on 5th and 6th August 2023. The visit was organised with the primary goal of spending quality time with the residents of these institutions, offering companionship and support while fostering a sense of empathy and social responsibility among our college students. The visit was organised for two days, also necessary donations such as books, first aid, etc., were collected by the volunteers prior to the visit.



- Organized a Plantation drive on 4th July, 2023 at Boulevard and Soundarya Park. This initiative aimed to raise awareness about the importance of environmental conservation and instill a sense of responsibility among students towards nature. The event was graced by Sri. M.R.Sitharam, Honorable Vice Chairman, GEF & Director of RIT, and Dr. N. V. R. Naidu, Principal, RIT.

DEPARTMENT OF SPORTS

VTU Tournaments



- TABLE TENNIS [MEN] - WINNERS** – VTU Bangalore Central Division Table Tennis Tournament 2023-24 held at CAMBRIDGE I.T. Bangalore held on 11th & 12th July 2023.



- BADMINTON [MEN]: WINNERS** – VTU Bangalore Central Division Badminton Tournament 2023-24 held at BMSCE. Bangalore on 21st July 2023



- BADMINTON [MEN]: WINNERS** – VTU State Level Badminton Tournament 2023-24 held at BMSCE. Bangalore on 22nd & 23rd July 2023.



- SWIMMING [M & W]: WINNER** of OVERALL CHAMPIONSHIP TROPHY, MEN CHAMPIONSHIP TROPHY & WOMEN 1st RUNNER UP TROPHY in VTU State Level Swimming Competition 2023-24.
- Men Team Secured – GOLD – 11, SILVER – 3 & BRONZE – 3 Medals
- Women Team Secured – GOLD – 6 & SILVER – 6 Medals
- Org. by: MSRIT, held on 9th August 2023

"Keep away from people who try to belittle your ambitions. Small people always do that, but the really great make you feel that you, too, can become great."

– Mark Twain



- **SWIMMING - Kshitija K**, II Semester AI & DS Secured 6 - GOLD & 6 - SILVER Medals in the VTU Swimming Competition held on 9th August 2023, Org. by: MSRIT



- **SWIMMING- JATIN B**, II Semester MEE Secured 10 - GOLD, 3 - SILVER & 3 - BRONZE Medals in the VTU Swimming Competition held on 9th August 2023. He also Secured Individual Championship Trophy in the Competition. Org. by: MSRIT



- **APPRECIATION** for the Swimming Team by Sri. M R Seetharam, Hon'ble Vice-Chairman, GEF & Director, RIT, Sri. B S Ramaprasad, Chief Executive, GEF, Sri. G Ramachandra, Chief of Finance, GEF, and Dr. NVR Naidu, Principal, RIT.



- **CHESS [M & W]: WINNERS** – Women Chess Team Secured Winners Trophy and 2nd RUNNER UP - Men Team Secured 2nd Runner Up position in VTU Bangalore Division Chess Competition 2023-24 held at BGSCET. Bangalore on 7th & 8th August 2023.

"Give a man a fish and you feed him for a day; teach a man to fish and you feed him for a lifetime"

– Maimonides



- **CHESS [WOMEN]: WINNERS** – Chess Women Team Secured Winners Trophy in VTU State Level Chess Competition 2023-24 held at SJMIT, Chitradurga on 12th & 13th August 2023



- **CHESS [WOMEN]:** Appreciation by Dr. NVR Naidu, Principal, RIT & Dr. Pradip Kumar Dixit, Vice-Principal to Chess Women Team for Securing Winners Trophy in VTU State Level Chess Competition held at SJMIT, Chitradurga on 12th & 13th August 2023.



- **FOOTBALL [MEN]: WINNERS** - Football Team Secured Winners Trophy in the VTU Bangalore Central Division Tournament held on 23rd & 24th August 2023 at Dr. AIT, Bangalore



- **FOOTBALL [MEN]: WINNERS** - Football Team Secured 1st Runner-up Trophy in the VTU State Level Football Tournament held on 26th & 27th August 2023 at PA College of Engineering, Mangalore



- **TAEKWONDO: Mr. Dheemanth S M** of II Sem CSE-CY, Secured Bronze Medal in VTU State Level Taekwondo Competition U-87 KG Category held at SIT, Tumkur on 21st August 2023.

"Education is for improving the lives of others and for leaving your community and world better than you found it."

— Marian Wright Edelman

IN HOUSE ACTIVITIES



- Organized VTU State Level Swimming Competition [Men & Women] at Basavanagudi Aquatic Centre on 9th August 2023. Around 50 Engineering Colleges with 180 participants from all over Karnataka. Swimming Meet inaugurated by Sri. G Ramachandra, Chief of Finance (GEF & GS) and witnessed by Dr. N L Ramesh, Vice-Chairman, Sports Committee. Ms. Arundathi S Deshpandey, National Level Swimmer, Alumni of RIT was the Chief Guest and Dr. M Shivarama Reddy, DPE, BMSCE and Member, Sports & Cultural VTU was the Guest of Honour for the program.





- New Synthetic Basketball & Tennis Courts inaugurated on 16th August 2023. The Courts inaugurated by Sri. B S Ramaprasad, Chief Executive (GEF & GS), Sri. G Ramachandra, Chief of Finance (GEF & GS) Dr. NVR Naidu, Principal, RIT and Dr. N L Ramesh, Vice-Chairman, Sports Committee, Sports Committee members & Sports department staff.

LIBRARY & INFORMATION CENTRE



- Organized a grand two-day Book Exhibition on August 11th and 12th, 2023. Sri. M.R. Seetharam, Honorable Vice Chairman GEF and Director, RIT, Sri. B.S. Ramaprasad, Chief Executive (GEF & GS), Sri. G. Ramachandra, COF (Engg. & GS) and Dr. N.V.R. Naidu, Principal, RIT, Bangalore, inaugurated the Book Exhibition. This book exhibition has provided a unique platform for staff and students to explore a diverse collection of books across various disciplines, from fiction and non-fiction to academic and reference works. There are 34 different Publishers' Books exhibited under the 23 book exhibition stalls, out of which 5 publishers directly participated, and the remaining distributors and vendors participated in the book exhibition. A total of 2273 (1211 titles) books were recommended by the RIT faculty members, research scholars, and PG students worth Rs.47 Lakhs during the book exhibition.



- On the occasion of the 131st birth anniversary of the esteemed Padmashri awardee Dr. S. R. Ranganathan, RIT Library celebrated National Librarians' Day on 12th August 2023 at ESB Board Room along GEF Library Professionals.

Publications

- **Mulla. K. R** - 'The Impact of IT Literacy on LIS Professionals' Handling of E-Resources in Engineering College Libraries of Karnataka: A Study', Pearl A Journal of Library and Information Science, Vol. No.17(3), (July- September 2023), pp.109-117.

"Anyone who has never made a mistake has never tried anything new."

– Albert Einstein

NEW APPOINTMENTS

Department of Electronics & Communication Engineering



Dr. Roopa Hegde joined as Assistant Professor in ECE department. She has both industrial and academic experiences of more than 6 years. Her research interest includes Nanomaterials, thin film for electronic applications.



Dr. Shipra Upadhyay joined as Assistant Professor in ECE department. She has completed her Ph.D. from Motilal Nehru National Institute of Technology, Prayagraj, Master of Technology from Allahabad University and Bachelor of Technology from U.P. Technical University. Her domain of expertise is in low power VLSI IC Design. Her research interest includes, custom analog IC design, FPGA programming and low power circuit design.

Department of Chemical Engineering



Dr. A V S L Sai Bharadwaj joined as Assistant Professor, he has completed his PhD (Chemical Engineering from NIT Tiruchirappalli, Tamilnadu, India), Postdoc (Chemical Engineering, IIT Madras, and Hanyang University (ERICA), Ansan, South Korea). His research interests are Waste to Energy (Catalysts, Biofuels), Biodiesel production, Biomass pretreatment.

Department of Information Science and Engineering

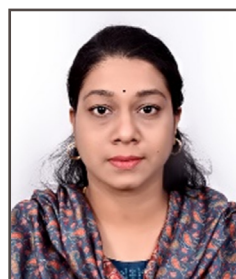


Ms. J R Shruti joined as an Assistant Professor in the Department of Information Science and Engineering, RIT. She received her B.E. (ISE) and M. Tech (CSE) from Basaveshwara Engineering

College, Bagalkot. Her interesting subjects includes Database Management Systems, Operating System, Object oriented Programming with JAVA, Automata theory and computability, Internet of Things, Blockchain Technologies.



Ms. Kavya – Joined as an Assistant Professor. She is enthusiastic about her passion for helping students learn and grow. With a strong belief in her ability to make a positive impact, she aims to create a nurturing educational environment.



Ms. Charunayana V - Joined as an Assistant Professor is a M. Tech. degree holder joined as an Assistant Professor in department of Information Science & Engineering, RIT. She received her B.E. Degree in Computer Science and Engineering from V.T.U in 2013. She worked as an Assistant professor at VVCE, Mysuru for 5 years. Later served in Amazon as data operations associate. She is a part-time research scholar under VTU.

Department of Medical Electronics Engineering



Mr. Budaraju Dhananjay joined as Assistant Professor. He graduated B. Tech in Biomedical Engineering from BVRIT, Narasapur, Hyderabad and M.E in Medical Electronics from UCE, Hyderabad. He submitted PhD thesis work entitled 'Artificial Intelligence enabled classification and prediction of Atrial arrhythmias using ECG Signal Morphological features', at Department of Biotechnology and Medical Engineering, NIT Rourkela. His areas of research interest are ECG Signal Processing, Image Processing and Machine & Deep Learning.

"Education is the most powerful weapon which you can use to change the world."

– Nelson Mandela

**Department Of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
(Cyber Security)**



Dr. Tojo Mathew - joined as an Associate Professor in CSE (AI & ML) department of RIT. He has over 16 years of professional experience that spans across teaching, research, and the software industry. He completed Ph. D from NITK Surathkal in the area of medical image analysis using artificial intelligence.



Mr. Rakesh Kalshetty - joined as an Assistant Professor in CSE (AI & ML) Department of RIT. He has done B.E. and M.Tech. in CSE discipline. Presently he is pursuing his Ph.D. in the field of Artificial Intelligence and

Wireless Sensor Networks.



Mrs. Shubha Vibhu Malige - joined the Department of Computer Science & Engineering (Cyber Security), RIT. Her areas of interest are Cyber Security and Computer Networking.



Mrs. Shobha K - joined as Assistant Professor. Her areas of interest are Cyber Security, Computer Networking, and Internetworking.

"Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family."

- Kofi Annan

RANK HOLDERS

Department of Electrical & Electronics Engineering

UNDER GRADUATE



R NISHANTH SAI
 USN - 1MS19EE041
 RANK - I



VARUN G S
 USN - 1MS19EE061
 RANK - II



DEEPAK T NAIK
 USN - 1MS19EE017
 RANK - III

"Learning gives creativity, creativity leads to thinking, thinking provides knowledge, and knowledge makes you great."

- APJ Abdul Kalam

Department of Mechanical Engineering

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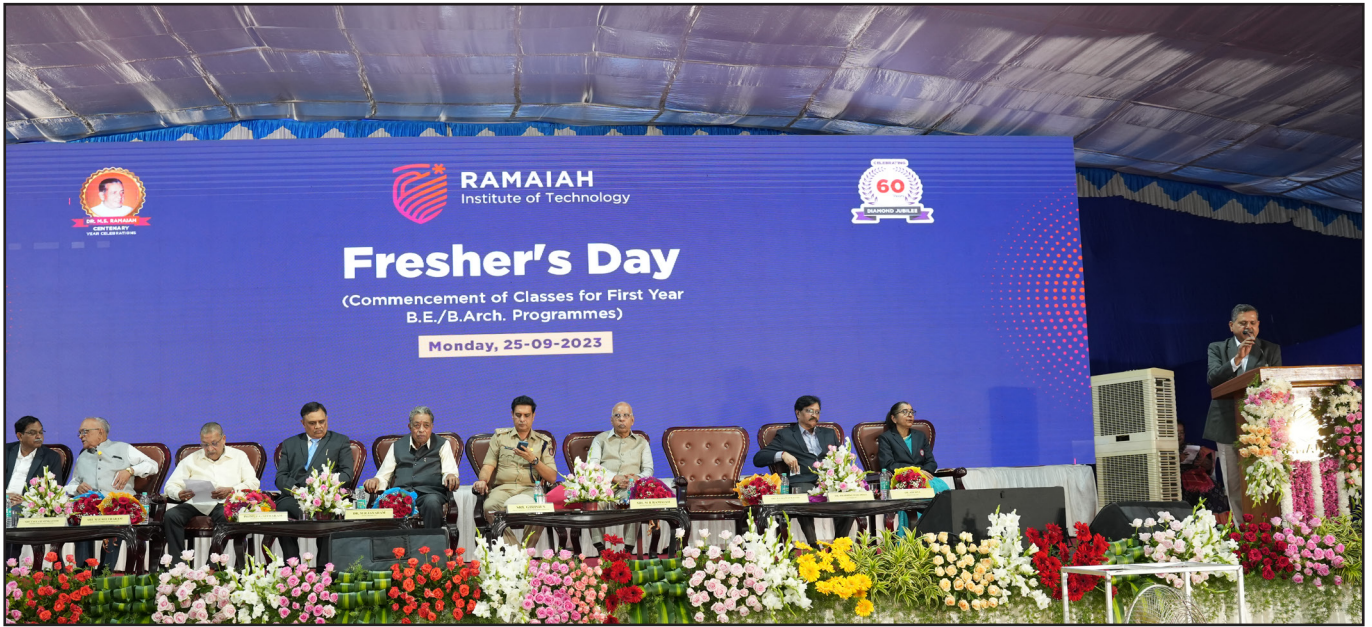


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Highlights of Ramaiah Institute of Technology

- Strategically located in the heart of Bengaluru City offering excellent connectivity and convenience.
- Proven track record spanning 60 years, in Engineering Education.
- Outstanding placement record up to 90-95% accomplished year on year.
- Faculty-Student the ratio of 1:15 among the best in the industry.
- Highly qualified and committed faculty, constantly evolving teaching-learning methodology.
- State-of-the-art infrastructure and facilities are comparable to international standards.
- Focus on all-round development to enable professionals to deliver in a dynamic ecosystem.
- Industry oriented instructional content to ensure strong synergy with the changing requirements.
- Several departments involved in various prominent projects.
- A solid association with leading names in the industry.

Various Institutions / Centres Under Gokula Education Foundation (GEF)

Ramaiah Advanced Testing Laboratory

Ramaiah Memorial Hospital

Ramaiah Medical College Hospital

Ramaiah Institute of Nursing Education & Research

Ramaiah Institute of Physical Medicine & Rehabilitation (Physiotherapy)

Ramaiah Medical College

Ramaiah College of Law

Ramaiah Institute of Management

Ramaiah College of Education

Ramaiah Composite Pre-University College

Ramaiah College of Arts, Science & Commerce

Ramaiah Polytechnic

Ramaiah Institute of Technology

Ramaiah High School

Ramaiah Vidyaniketan

Ramaiah University of Applied Sciences

Ramaiah International Centre for Public Health Innovation

Ramaiah Quality Assurance Cell

Ramaiah Officers IAS Academy

Ramaiah Sunshine Ayurveda Centre, Penang, Malaysia

Ramaiah Innovation Centre for Healthcare Technologies

Ramaiah Public Policy Centre

Ramaiah Clinic

Ramaiah Neha Prakash Hospital

Ramaiah Leena Hospital

Ramaiah Harsha Hospital

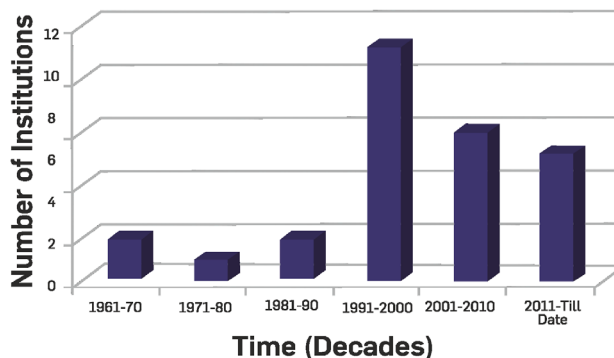
Ramaiah Clinical Research Centre

Ramaiah INDIC Speciality Ayurveda

Ramaiah International Medical School



Growth of the GEF Group of Institutions



A total of 29 Institutions are established under the umbrella of Gokula Education Foundation

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