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Sampige

A quarterly News Bulletin

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Contents

Departmental Activities

Alumni Association

Placement and Training

New Appointments

Rank Holders

From the Editorial Board



Greetings,

I would like to welcome readers to another issue of Sampige, A Quarterly News Bulletin of Ramaiah Institute of Technology (RIT) through which we can keep the college community and beyond happenings. Farewell function for the outgoing students of B. E, B.Arch., M. Tech, MBA and MCA is being held every year in the month of May where the best student achievers are felicitated from each department. Due to Pandemic COVID -19 this year, farewell function was not organized but Best Student Achiever Award

function was conducted. The editorial board on behalf of the faculty and management wishes all the graduating students and the rank achievers a great success in their all future endeavors and welcomes all newly admitted students to the portals of RIT. We hope that the readers find the news bulletin informative and useful. Amidst the fear and uncertainty that corona has created, it is extremely important to send positive vibes. We wish for all our employees the best of health and happiness in these tough times. May you and your loved ones are safe and protected.

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 (RIT). In this News Bulletin, we have reported glimpse of activities held at the institute and significant contribution and achievements made by faculty, staff and students in academic. Once again all efforts have been spared to compile information about all activities of the institute in an effective manner since we consider this News bulletin as an effective tool of communication. We would like to place on record our gratitude and heartfelt thanks to all those who

have contributed to make this news bulletin a success. Once again all efforts have been spared to compile information about all activities of the institute in an effective manner since we consider this News bulletin as an effective tool of communication. Once again Editorial Board thanks all the people who have contributed to this News Bulletin and look forward to more contributions to future issues of the News Bulletin. In this serious and difficult Corona situation, we wish that you and your loved ones are always safe.

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

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

QUALITY POLICY

We at M.S. 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.



#1 RANKED
AMONG ENGINEERING
COLLEGES (VTU)
IN KARNAKATA

Ranked
#59 **BEST** ENGINEERING
INSTITUTE
among 1071 reputed
Institutes in India

- As per NIRF, MHRD, Govt. of India. 2020 

MSRIT is accredited by NAAC with
"A" Grade

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



Industrious and enterprising, Dr. M. S. Ramaiah is among Karnataka's illustrious sons and an engineering contractor of national repute. He founded 'Gokula Education Foundation' in 1962 without expecting any kind of assistance from the establishment with an objective of serving the society. M.S. Ramaiah Institute of Technology (MSRIT) was born under the aegis of this foundation in the same year, creating a landmark in technical education in India. Through the years MSRIT has imparted quality engineering and education, accessible to thousands from across India and abroad, facing a lack of opportunity to pursue higher education.

Widely acknowledged as a visionary, educationist, industrialist and philanthropist, Dr. M. S. Ramaiah

personally ensured that the institution which began with just two disciplines, grew phenomenally over the years. MSRIT now offers Bachelors, Masters and Doctorate programmes in several disciplines and is recognised as one of India's leading names in technical education. The institution is with state-of-the-art laboratories, well stocked libraries and has highly qualified, experienced and dedicated faculty. In tune with the noble ambitions and aspirations of Dr. M. S. Ramaiah, to keep the institution growing and developing continuously so as to become a 'Jnana Sagara', all departments are continuously engaged in implementing appropriate procedures to initiate, include and conduct unique programmes keeping in touch with the emerging requirements of the industry.

Hearty Congratulations



Mr. B. Kaushik Singh, student of Computer Science & Engineering branch received the **Best Outgoing Student** of Ramaiah Institute of Technology award and the certificate of merit for his performance in Academics, Leadership, Co-curricular and Extra-curricular activities and service to Community.

BEST STUDENT ACHIEVER AWARD CEREMONY



- 'Best Student Achiever Award' function was held at the institute on 26th December 2020. The Best Achievers of each department and the Best Outgoing Student were awarded during the program. Dr. N.V.R Naidu, Principal, Sri. Ramachandra, Chief of Finance (GEF), Dr. C.G. Puttappa, Vice Principal, Dr. Archana, Registrar Academics and respective Heads of the departments distributed the Gold Medals and Certificates to the Best Achievers. The Best Outgoing student Mr. B. Kaushik Singh of Department of Computer Science & Engineering was awarded a Gold Medal and an additional cash prize of Rs 5000/- from the Alumni Association.

FRESHER'S DAY FUNCTION

(Commencement of Classes for 1st Year BE/B. Arch Programmes), 28-12-2020.



- Due to Covid-19, Fresher's day function (Commencement of Classes for 1st Year BE/B. Arch Programmes), -Virtual Inauguration was held on 28-12-2020. The Guest of Honor for the function

was Padma Vibhushan Dr. V K Aatre the former head of DRDO and former scientific advisor to Defence Minister. The event was graced by Chief Guest Sri. Thallam Venkatesh, President, RIT, Alumni Association. Dr. M.R Jayaram, Honorable Chairman, GEF, Sri. M.R. Seetharamm. Honorable Vice Chairman, GEF and Director of RIT, M.R Ramaiah, Honorable Secretary, GFE and Director of RIT, Sri. B.S. Ramaprasad, Chief Executive GEF Engg. & General Sciences, Dr. Archana, Registrar Academics and senior faculty from all the departments have participated.

RAMAIAH EVOLUTE: "FIRST CROSS - DISCIPLINARY STARTUP ECO - SYSTEM OF INDIA"



- Ramaiah Evolute: "First Cross - Disciplinary Startup Eco-System of India" has been inaugurated on 07th November 2020. Under this Ramaiah group of institutions in its pursuit to enable extreme innovative entrepreneurship from India, has taken a big leap. The group is rolling out an innovative start-up infrastructure with a strong and proven mentoring team in its campus as a novel Center. The centre aims at blending the incubation and mentoring, for high value potential startups and enable them to become the "highly vetted choice" for both the venture fund eco-system and technology corporates of India.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Paper Publication in International Journal:

- T. Ratna Rahul** - 'A Generalized Single Phase Cascaded Multilevel Inverter with Reduced Switch

Count', Electrical Engineering, Springer Electrical Engineering Journal, Vol 103, issue 1, pp 1 – 11, November, 2020.

Paper Publication in International / National Conference

- Sumukh Surya, **J Channegowda**, A S Jha, A Victor, Shantanu D Datar - 'Accurate Battery Modeling Based on Pulse Charging using MATLAB / Simulink', 9th IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2020), Organized by MNIT, Jaipur, December, 2020.
- A Herle, **J Channegowda**, K Narahariseti - 'Analysis of NARXNN for State of Charge Estimation for Li-ion Batteries on various Drive Cycles', 8th International Conference on Power Electronics Systems and Applications (PESA 2020), Organized by Hongkong Polytechnic University, December, 2020.
- S Surya, **J Channegowda**, K Narahariseti - 'Generalized Circuit Averaging Technique for Two Switch DC-DC Converters', 8th International Conference on Power Electronics Systems and Applications (PESA 2020), Organized by Hongkong Polytechnic University, December, 2020.
- A Herle, **J Channegowda**, D Prabhu - 'A Temporal Convolution Network Approach to State-of-Charge Estimation in Li-ion Batteries', 17th IEEE India Council International Conference 2020 (INDCION2020), Organized by Netaji Subhas University Institute of Technology, December, 2020.
- A Victor, A Jha, **J Channegowda**, S Surya - 'Thermal Analysis of PEM Fuel Cell and Lithium Ion Battery Pack in Confined Space', 17th IEEE India Council International Conference 2020 (INDCION2020), Organized by Netaji Subhas University Institute of Technology, December, 2020.
- M M S Kumar, H Yadav, **D Soman**, A Kumar, A K Reddy N - 'Acoustic Localization for Autonomous Unmanned Systems', 14th IEEE International Conference on Innovations in Information Technology (IIT), Organized by UAE university, November, 2020.
- Vinayak V Rao, Ramakrishna Murthy K, Mamatha G M, Pradipkumar Dixit** Harikrishna R, - 'Experimental Investigations of Nano BaTiO₃ filled HTV SiR Insulating Specimen under Rainy Conditions', International Conference on advances

in sustainable Technology, Organized by Lovely Professional University, Punjab, November, 2020. (Won the best paper award)

- Vinayak V Rao, Ramakrishna Murthy K, Mamatha G M, Pradipkumar Dixit** - 'Performance Evaluation of Outdoor Insulation subjected to UV radiation', 7th IEEE conference on Electrical, Electronics and Computer Engineering, Organized by MNIT, Allhabad on November, 2020.
- Vivek Kumar Singh, Abhijeet Sarkar, Vidit Vijay Chaturvedi, Md Sayeed Ansari, **Tushar S Narsimpur** - 'Glove Mouse: A gesture controlled wireless computer mouse', XVII Control Instrumentation System Conference CISCON 2020, organized by MIT, Manipal, October, 2020.
- K Narahariseti, **J Channegowda** - 'High Frequency Transformer Design and Winding Loss Analysis of Critical Conduction Mode Flyback', 2020 IEEE 1st International Conference on Smart Technologies for Power, Energy and Control (STPEC), VNIT, Nagpur, September, 2020.

Publications in book Chapters:

- T Ratna Rahul** - 'Model Predictive Control Based Inverter to Enhance the Performance under Grid Frequency Variations', Recent Advances in Power Electronics and Drives, vol.707, Lecture Notes in Electrical Engineering, Springer, Singapore, December, 2020.

Consultancy projects:

- Dr. Pradipkumar Dixit**, Principal Investigator - 'Lightning Design Evaluation of Light Utility Helicopter', funded by RWRDC, HAL, Bengaluru, for the duration of 12 months. Amount Rs.8.74Lakhs

Guest Lectures delivered by the department faculty:

- Smt Kusumika Krori Datta - Delivered a talk on 'Role of AI in Power Systems', in AICTE sponsored online STTP on 'Application of AI and IoT to Power systems including Smart Grid', Phase – II, organized by Sridevi Womens Engineering College, Hyderabad, 14-19 December, 2020.

Relationships are based on four principles: respect, understanding, acceptance, and appreciation
- Mahatma Gandhi

DEPARTMENT OF MECHANICAL ENGINEERING

Publication in (National/International) Journals:

- **Niranjan Murthy, B K Naveen Kumar** - 'Heat transfer investigation with multiple jet impingement', International Journal of vehicle structures and systems, 12(3), 77-79, 2020
- **P.C. Aruna Kumara, D. Venkatesh, K.R. Phaneesh** - 'Effect of Heat Treatment and Cryotreatment on the Fatigue Crack Growth in Aluminium 7075 Alloy', Int. J. Vehicle Structures & Systems, 12(4), 460-464. doi:10.4273/ijvss.12.4.21.

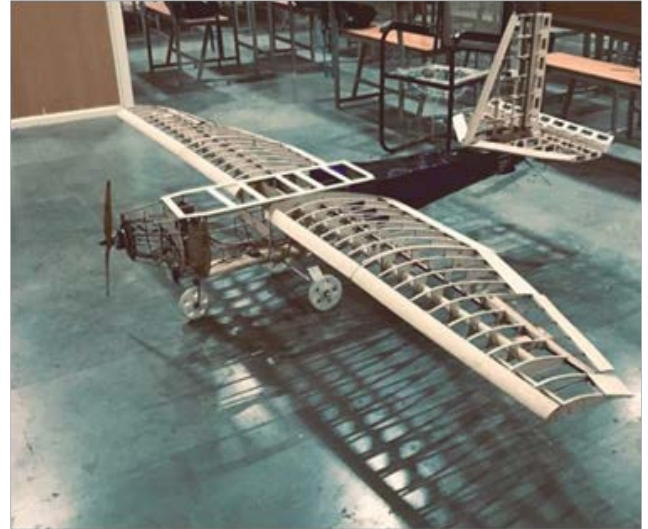
Paper presentation in National / International Conferences:

- **Jyothilakshmi R** - 'A study of the Processes, parameters and optimization of Anaerobic Digestion for food waste', 10th International Conference on sustainable waste management towards circular economy, Jadavpur University, 1 Kolkata, India, 2nd to 7th December 2020.
- **Naveen Kumar B K, Kevin A Gonsalves, Mohammed Sahil, Mohammad Ashrof** - 'Improving the load carrying performance of Bull by changing the existing design of the Bullock cart', National conference on Design, Simulation and Manufacturing-Key components of Make in India Initiative, Ramaiah Institute of Technology, Bengaluru, 23rd - 24th November 2020.
- **Naveen Kumar B K, Nikhil Govind** - 'Design and fabrication of all-terrain vehicle using Rocker-Bogie Mechanism', National conference on Design, Simulation and Manufacturing-Key components of Make in India Initiative, Ramaiah Institute of Technology, Bengaluru, 23rd - 24th November 2020.

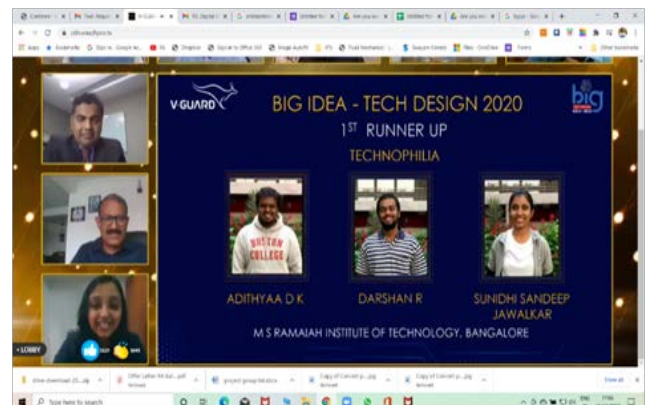
Achievements / Awards by Staff / students:

- **Dr. Jyothilakshmi R**, Assistant Professor of Department of Mechanical Engineering Obtained IconSWM Excellence Award 2020 for the technical paper titled 'A study of the Processes, parameters and optimization of Anaerobic Digestion for food waste'

presented during 10th International Conference on sustainable waste management towards circular economy, Jadavpur University, Kolkata, India, 2nd to 7th December 2020.



- **TEAM QUATLAS -SAE Aero Design West, 2020** - Team Quatlas is the official Aero modelling team of Department of Mechanical Engineering, Ramaiah Institute of Technology, Bangalore. The team comprises of passionate and hard-working students from multiple disciplines of engineering. Our cohesive team structure facilitates hands-on learning and inter-departmental coordination. The team ranked 2nd in Asia and 8th in the world amongst 43 international teams from countries such as Poland, Canada, Mexico, etc. in the virtual SAE Aero-Design Competition 2020. The Team is mentored by Gururaj Lalagi.



- **TEAM TECHNOPHILIA - BIG IDEA-TECH DESIGN 2020** - Team Technophilia is a team comprising of the students of Department of Mechanical engineering. The team has participated in prestigious BIG IDEA-TECH DESIGN 2020 organized by V Guard in December 2020. The theme of the

competition was a new technology, an innovation or a simple re-configuration that can make our existing products credibly play an active role in delivering a healthier, more hygienic home environment or even actually helps build immunity for our consumers. Team Technophilia has been placed 1st Runner up in making advance Mask that can be used during Covid-19 situations. The team was mentored by Mr. Gururaj Lalagi



- **NASA-HUMAN EXPLORATION ROVER CHALLENGE - 2021 - TEAM CONCEPT 4** - TEAM CONCEPT4 from Ramaiah Institute of Technology has been **selected for the 27th annual NASA's Human Exploration Rover Challenge-2021**, the only team from Karnataka, among 6 teams from India and 86 teams that are participating from the world. Team Concept 4 is a dedicated group of multidisciplinary students who aim to develop a no power consumption vehicle i.e. Human Powered Rover. From the past more than 20 years Nasa is conducting this competition at Nasa Rocket and space research center Huntsville, USA for university and Higher school students. The team is Mentored by D Venkatesh

Funded Project:

- **Dr. Aruna Kumara P.C. and Dr. Rajeesh S** - 'Study of Fatigue crack growth of Al 6061- T6 welds obtained by gas metal Arc welding technique', Defence R & D organization, Armament Research Board, DRDO Bhawan, New Delhi.

Grant: Rs.27,06,350/-

DEPARTMENT OF CIVIL ENGINEERING

Publications in National/ International Journals:

- **Jyothi M R, H U Raghavendra, Prashant C Sunagar, Mahesh V M and Nruthya K** - 'Blast Analysis of a 3D Steel Frame Structure', International Journal of

Advanced Research in Engineering and Technology, 11(12), December 2020, pp. 2518-2539.

Paper presentation in National / International Conferences:

- **Ksheeraja A L and N Srilatha** - 'Application of Geosynthetics for Geotechnical Challenges' Proceedings of Indian Geotechnical Conference, Andhra University, Visakhapatnam, December 17-19, 2020.
- **B.Suguna.Rao, Vishwas B.Laxmeshwar, and Srikanth.M.Naik** - 'Predictive Analysis of Shear Strength of Recycled Aggregate Concrete' Second ASCE India Conference at Eiffel Hall, Novotel Kolkata Hotel & amp, Residences 2nd March 4th March, 2020.
- **K S Dhananjaya, Chetan S Kumar and Nandeesh M Sreenivasappa** - 'Evaluation of the Effectiveness of Euler's Buckling Load for the Analysis of Concrete Filled Steel Tube Slender Columns' at the International Conference on Recent Developments in Sustainable Infrastructure: Research and Practices (ICRDSI 2020) Organized by School of Civil Engineering, KIIT Deemed to be University, Bhubaneswar held between Dec 18-21, 2020.
- **Sumalatha J** - 'Stability analysis of slopes at a landslide prone area: A case study on the landslide at Madikere, India', Indian Geotechnical Conference (IGC - 2020), 17-19th December, 2020.

Guest Lectures delivered by the department faculty:

- **Prashant Sunagar** - 'Sustainability Concepts in the design of Tall Structure Buildings: Current Trends and Future Prospects' at Department of Civil Engineering Dr.T. Thimmaiah Institute of Technology in Association with Indian Concrete Institute (ICI), Bengaluru center- 22nd October 2020.
- **Nruthya. K** - 'Applications of Flow Duration Curves in Water Resources and Environmental Engineering' at Department of Civil Engineering Dr. T.Thimmaiah Institute of Technology in Association with Indian Concrete Institute (ICI), Bengaluru center- 23rd October 2020.

- **Nruthya. K** - 'Application of Remote Sensing in Water Resources Management' at Department of Civil Engineering BMS Institute of Technology and Management- 8th November 2020.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Publications in (National / International) Journals:

- Lakshmi. S - 'RF MEMS Switch Fabrication and Packaging' in a book "Nanofibres" published by Intech Open, on 6th Dec 2020 DOI: <http://dx.doi.org/10.5772/intechopen.95003>.
- V. Anandi, Shanmathi G and Ramesh Muthuswamy- 'MBFF for Power Reduction Of An SoC Partition' Lecture notes in Electrical Engineering., Vol. 673, Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems, October 2020, Springer Nature.
- K. V. Suma, D. Venkatesh, Arun Kumar, Manjula Suryabhatla, Tejaswini M. Gowda, and M. Thejashwini. - 'Stress Level Detection Using Electroencephalography Signals', Journal of Computational and Theoretical Nanoscience, Vol. 17, No. 09/10, pp. 4223–4228 (2020)
- A. A. Nithyashree, M. Y. Chandashwini, K. V. Suma, Amruta B. Chougale, and C. Likhitha -. 'Internet of Things Based Power Monitoring and Theft Detection', Journal of Computational and Theoretical Nanoscience, Vol. 17, No. 09/10, pp. 4179–4182, 2020.
- C.G. Raghavendra, Nagabhushana K. Bhat, Raghu Srivastva M. P, Dinesh P, - 'An Optimized approach to generate Multicarrier Radar Signal using Computationally Efficient Algorithm', Journal of Computational and Theoretical Nanoscience, Vol.17, No. 9/10, pp. 4406–4411, October 2020.
- Shreya Srinarasi, Seema Jahagirdar, Charan Renganathan, H. Mallika – 'Comparative Analysis Between Recurrent Convolutional and Convolutional Neural Networks for Horizon Detection', Journal of Computational and Theoretical Nanoscience, Vol. 17, No. 09/10, pp.4364–4367, October 2020.
- Chitra M, Nayana – 'Identity based Signature Scheme for Data Integrity in Wireless Sensor Networks', International Journal of Advanced Science and Technology, Vol.29, No. 4, pp. 11298–11308, December 2020.
- V. Rajeshkumar, S. Imaculate Rosaline – 'Design of Slotted Multiband Antenna with Reduced Specific Absorption Rate using SRR Superstrate', International Journal of Advanced Science and Technology, Vol. 29, No.04, 9988, October 2020.
- Ksheeraja Raghavan, Sara Mohan George, Anshuman D. Prahlad, T. M. Deeksha, K. Chaatru Srikar – 'Child Tracking and Monitoring', Journal of Computational and Theoretical Nanoscience, Vol. 17, No. 09/10, pp. 4041–4044, October 2020.
- Suma K V, Punya Prabha V, Pooja, Arun Kumar M, Venkatesh D – 'Preterm Delivery Prediction by Analysis of Multi-channel Uterine EMG signals', International Journal of Advanced Science and Technology Vol. 29, No. 4, pp.9819 – 9826, 2020.
- Rajesh Thakare, Sandeep Kakde and Pavitha U S – 'Real Time Person Independent Communication Between Dumb and Blind Person Using Sign and Text Detection' Bioscience Biotechnology Research Communications Special Issue Vol.13 No. 14, 2020.

Paper presentation in National / International Conferences:

- A Kagalkar and S. Raghuram – 'CORDIC Based Implementation of the Softmax Activation Function' 2020 24th International Symposium on VLSI Design and Test (VDATE), Bhubaneswar, India, 2020.
- Varun. C. R, Sumant. A. Gunagi, Venugopal. K. A, Shrinath Darur and Suma. K. V, - 'Multi Channel Acquisition and Scope of Analysis of Surface EMG signals' 2020 IEEE International Conference for Innovation in Technology (INOCON), BANGALURU, 2020.
- Punya Prabha V, Sarala S M, Sharmila Suttur – 'Robust Smart Irrigation System using Hydroponic Farming Based on Data Science and IOT', 1st IEEE Bangalore Humanitarian Technology Conference, 8th – 10th October 2020.

- Dr. Lokesh C, Dr. Rekha K. R, Manjunath Lakkannavar, Channakka Lakkannavar- 'Analysis of Different Approaches for Dynamic Power Dissipation in Digital Circuits', International Conference on Cutting Edge Technologies in Electrical, Communication, Embedded System and Soft Computing Techniques(ICECES-20), Saranathan College of Engineering, Tiruchirappalli, 5th -6th November 2020.
- V. Anandi, G. Shamanthi, Muthuswamy Ramesh - 'MBFF for Power Reduction of an SoC Partition', Proceedings of the Fourth International Conference on Microelectronics Computing and Communication Systems, Lecture Notes in Electrical Engineering, Springer, Singapore, Vol.673, pp.911-919, 2020.

Guest Lecture/s - Invited:

- Dr. Ted K Dass, Founder, Evidarc Consulting, Bangalore – 'Introduction to HR', 27-11-2020.

Guest Lecture delivered by the department faculty:

- Dr. Roshan Zameer Ahmed - "Impact of Wireless Sensor Networks towards the Agricultural Yield Productivity (Coffee Plantations)", Department of Computer Science & Engineering, Sri Venkateshwara College of Engineering (SVCE), Bengaluru, 05-12-2020

Funded Project:

- Dr S Sethu Selvi, Dr. Raghuram S- were granted Rs. 2,00,000 from IEEE Signal Processing Society for conduction of a workshop titled " 2020 IEEE SPS Winter School on Advances in Deep Learning for Video Analytics & Edge Computing", 5th December 2020.

Achievement by Students:

- **Sheeshma Hegde**, first year ECE student received Raksha Mantri commendation during the Republic Day camp, for her exemplary performance and devotion to duty as an NCC cadet. She led the NCC marching contingent as the All India NCC Rajpath Parade Commander.

DEPARTMENT OF CHEMICAL ENGINEERING

Publications in (National/International) Journals:

- **Rajeswari M. Kulkarni**, N. Arvind- 'Acetalization of Glycerol and Benzaldehyde to synthesize biofuel additives using $\text{SO}_2\text{-4/CeO}_2\text{-ZrO}_2$ Catalyst', Helion, Elsevier Ltd., Vol. 7(1), (2021), pp. 1 – 9.
- **Sravanthi Veluturla, Archana Narula**, Kamolpun Sathitsommon, L V Anirudh – 'Synthesis of Acetins from Ethyl Acetate via Transesterification with Glycerol using Sulphonic Acid type Ion-Exchange Resin', European Chemical Bulletin, Deuton-X Ltd, Vol. 9(12), (2020), pp. 420-424.
- P Sampath, **Brijesh**, Kakarla Ragava Reddy, C. Venkata Reddy, Nagaraj P Shetti, Ragavendra V Kulkarni, Anjanpura V Raghu – 'Biohydrogen production from Organic Waste – A Review', Chemical Engineering Technology, Wiley-VCH, Vol. 43(7), (2020), pp.1240-1248,
- **Sravanthi Veluturla, Archana Narula**, Kamolpun Sathitsommon, AnanyaSrivatsava, L V Anirudh, Sanyam Chauhan, Veeresh – 'Studies on Transesterification of Glycerol to Acetins using an Economical Base Catalyst', Journal of Chemical Technology and Metallurgy, University of Chemical Technology and Metallurgy , Vol. 55(6), (2020),pp.2030-2039.

Paper Presentation in National / International Conference:

- **Rajeshwari M Kulkarni** and RupaRagavan – 'Waste Water Treatment using Biosurfactants', SCHEMCON-2020 organized by Indian Institute of Chemical Engineers, Kolkata held during October 9-10, 2020.
- **Shravanthi Veluturla**, Saddam Sharieff, Ashwini N – 'Simulation studies for production of Levulinic Esters by Reactive Distillation', SCHEMCON-2020 organized by Indian Institute of Chemical Engineers, Kolkata held during October 9-10, 2020.
- **Ravi Sankarannavar** – 'Aqueous Calcium Amended-Hydroxyapatite Defluoridation Method: A step towards mitigation of crippling fluorosis for rural areas', SCHEMCON-2020 organized by Indian

Institute of Chemical Engineers, Kolkata held during October 9-10, 2020.

Guest Lecture/s – Invited

- **Mr. Jayanth V Reddy** - 'Transition from core chemical engineering to Biochemical engineering: Special focus on Biopharmaceuticals' on 20th November 2020 at 09:30 am. The talk was organized under IChE student chapter, MSRTIT.
- **Mr. Girish** - Head of Process Engineering, Chemical Development, Syngene International Ltd Talk on Insights to Continuous Flow Processing Technologies: Micro, Meso and Large scale systems on 13th November 2020 at 11:00 am. The talk was organized under IChE student chapter.
- **Dr. Archana** - 'The importance of competitive examinations and career opportunities', on 06th November 2020 at RIT specifically for the benefit of 7th semesters students across disciplines.

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

- **Mr. Afnan Shariff** - participated and successfully completed the National Level E Quiz on Chemical Reaction Kinetics conducted by the Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bengaluru on 19.09.2020.
- **Mr. Saddam Sharieff** - participated and successfully completed the National Level E Quiz on Chemical Reaction Kinetics conducted by the Department of Chemical Engineering, Dayananda Sagar College of Engineering, Bengaluru on 10.08.2020.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT

Publications in National / International Journals by Faculty and Research Scholars

- **Deepak Kumar**, Akshay A Avadhany, B V Shridhar, Gangadhar K R, Rajath N - 'Kanban and VSM Analysis of Butterfly Valve Production Using Simulation', International Journal of Recent Research in Thesis and Dissertation (IJRRTD) –Vol. 1, Issue 1, pp: (1-6), Month: July - December 2020
- H. Harish, Dr. S. Rajanna, **Dr. G.S. Prakash**, & H.V. Srikanth - 'Experimental investigation of effect of

injections parameters on stationary diesel engine fuel with the methyl ester of waste vegetable oil', Journal of Green Engineering (JGE), Vol.10, Issue.11, November 2020, pg.no.12195-12215.

Faculty paper presentation in National / International Conference:

- **Sudheer D Kulkarni** - 'Modelling the Patient Flow in an Out-Patient Department (OPD) in an Out-Patient Department (OPD) of a Hospital using Simulation Techniques', International Conference on Materials, Manufacturing and Machining for Industry 4.0, 10th October 2020, Bannari Amman Institute of Technology, Tamil Nadu.
- **V. Vivekanand**, R. Pradyumna - 'Determination of Optimal Parameters for Boring Operation and Tool Life Improvement for Piston Pins Using Design of Experiments Approach', 2nd International Conference on Materials, Manufacturing and Machining for Industry 4.0, 10th October 2020, Bannari Amman Institute of Technology, Tamil Nadu.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Publications in (National / International) Journals:

- **Parkavi A, Sowmya B J, K G Srinivasa** - 'Automating the Assessment of Student's Descriptive Answer using Natural Language Processing', Solid state technology, V63, I-6, (2020), 6996-7008.
- **Jyothi K K, Chaudhari S** - 'Optimized neural network model for attack detection in LTE network', Computers & Electrical Engineering, 88, p.106879, 2020.
- **Sowmya B J, S Seema, K G Srinivasa** - 'Data Analytic Techniques for Developing Decision Support System on Agrometeorological Parameters for Farmers', International Journal of Cognitive Informatics and Natural Intelligence (IJCINI) 14, no. 2 (2020): 92-107.
- **Sowmya B J, S Seema, K G Srinivasa** - 'Utility system for farmers using data analytics and blockchain-KrishiCoin', Journal of Statistics and Management Systems 23, no. 6 (2020): 1023-1036.
- **Sowmya B J, C S Nikhil Jain, Srinivasa K G** - 'Fake News Detection using LSTM Neural Network

Augmented with SGD Classifier', Solid State Technology 63, no. 6 (2020): 6985-9665.

- **Desalli Abhay, R Anirudh, N Prajwal Pai, S B Rajeshwari, Jagadish S Kallimani** - 'Rectifying Incorrectly Part of Speech-Tagged Polysemy Words in Kannada Language for Machine Translation', Journal of Computational and Theoretical Nanoscience 17, no. 9-10, (Oct 2020), 4255-4257.
- **Jain Vybhav, S B Rajeshwari, Jagadish S Kallimani** - 'Emotion Analysis from Human Voice Using Various Prosodic Features and Text Analysis', Journal of Computational and Theoretical Nanoscience 17, no. 9-10, Oct 2020, 4244-4247.
- **Chandrika C P, Jagadish S Kallimani** - 'Polarity Identification for Handwritten Text in Multilingual Documents Using Open Source Optical Character Recognition Tools', Journal of Computational and Theoretical Nanoscience 17, no. 9-10, Oct 2020, 4045-4049.
- **Chakravarty Aniv, Jagadish S Kallimani** - 'Unsupervised Multi-Document Abstractive Summarization Using Recursive Neural Network with Attention Mechanism', Journal of Computational and Theoretical Nanoscience 17, no. 9-10, (Oct 2020), 3867-3872.
- **Jagadish S Kallimani, S H Ajeya, D Keerthana, Manoj J Shet, Prasada Hegde** - 'Enhancements in Decision Making Through Sentiment Analysis of Twitter Data', Journal of Computational and Theoretical Nanoscience, Vol 17, Issue 9, pp. 4083-4091, July 2020.
- **Jagadish S Kallimani, C P Chandrika, Aniket Singh, Zaifa Khan,** - 'Authorship Identification Using Supervised Learning and n-Grams for Hindi Language', Journal of Computational and Theoretical Nanoscience, Vol 17, No. 9-10, pp. 4258-4261(4) Oct 2020.
- **Jagadish S Kallimani, Chandrika Prasad, D Keerthana, Manoj J Shet, Prasada Hegde, S H Ajeya** - 'Performance Analysis of Open Source Optical Character Recognition', Journal of Computational and Theoretical Nanoscience, Vol 17, Issue 9, pp. 4267-4275, Oct 2020.

Paper presentation in National / International Conferences:

- **Srivastava, Shikhar, Anita Kanavalli, Ashutosh Pattanaik, Anshul Gupta** - 'Mitigation of Combined DDoS attack on SDN Controller and Primary Server in Software Defined Networks using a priority on traffic variation', International Conference for Emerging Technology (INCET), pp. 1-5. IEEE, 2020.
- **Pramod Sunagar, Anita Kanavalli S Shweta** - 'A Survey Report on Hypernym Techniques for Text Classification', 2020 Fifth International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN), CHRIST (Deemed to be University), Bangalore, India, 2020, pp. 65-70, doi: 10.1109/ICRCICN50933.2020.9296159.
- **S J Krishna Prasad, Viswanath Talasila, S Mohana Kumar** - 'Simulation and modeling of ber bragg grating sensors', International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), pages 343-352. IEEE, 2020.
- **G K Sagarika, S J Krishna Prasad, S Mohana Kumar** - 'Paddy plant disease classification and prediction using convolutional neural network', International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), pages 208-214. IEEE, 2020.
- **Y indumathi K M, Chaudhari, S S, Aparna R** - 'Analysis of Image Classification for Text Extraction from Bills and Invoices', 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) (pp. 1-6). IEEE, 2020.
- **Pujar S R, Chaudhari S S, Aparna R** - 'Survey on Data Integrity and Verification for Cloud Storage', 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) (pp. 1-7). IEEE, July 2020.

Guest Lecture delivered by the department faculty:

- **Dr. Parkavi. A** - 'Design of outcome based education and NBA SAR filling', One Week AICTE-ISTE sponsored Induction/Refresher Programme (Online) on 'Accreditation: An Accelerator for Quality Improvement in Engineering Education', 7-12th December 2020, Department of Electronics and Communication Engineering, S. D. M. College of Engineering and Technology, Dharwad.

- **Sini Anna Alex** - 'Artificial Neural Networks' conducted by IEEE SB GECW in association with GECW Alumni Association Bengaluru Chapter in the Nineteenth webinar in this series on 7th November 2020.
- **Sini Anna Alex** - 'Artificial Neural Networks' conducted by Rajadhani Institute of Engineering & Technology, Trivandrum, IEEE with Kerala Engineers Association Bengaluru on October 24th 2020.
- **Sini Anna Alex** - 'No SQL-MONGO DB' conducted by Amruta Institute of Engineering & Management Sciences, Bangalore on 6th November 2020.
- **Dr J Sangeetha** - 'Optimal Placement of Relay Stations in WiMAX Networks', Fourth International Conference on Computing and Network Communications (CoCoNet'20) October 14-17, 2020.

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

- Dr. Parkavi A, certificate of appreciation for TI embedded system design using MSP430 MCU MOOC, for steering the ecosystem bridging Government, Academia and industry, Sep-Dec 2020.

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

Publications in National/International Journals:

- **G Shivaparakash et.al** - 'Human emotion detection and classification using convolution neural network', European Journal of Molecular and Clinical Medicine, Vol.07, Issue 06, ISSN 2515-8260, 2020.
- **M.Jyothirmayi, J.V.Alamelu** - 'Monitoring and control of fodder growth in Hydroponics environment', Solid state technology, Volume 63(5), 2220-2231, October 2020.
- **H.S.NiranjanaMurthy** - 'Comparison Between Non-Linear Autoregressive and Non-Linear Autoregressive with Exogeneous Inputs Models for Predicting Cardiac Ischemic Beats', Journal of Computational and Theoretical Nanosciences, Vol.17, No.9/10, pp.3974-3978, October 2020.
- **M D Nandeesh, and M. Meenakshi** - 'Detection of Tumor Using Gabor Filter for Multimodal

Images', Journal of Computational and Theoretical Nanoscience, Vol.17,Pg. no: 4325-4330, October 2020.

- **Vanitha K M, ViswanathTalasila, L V Narashima Prasad** - 'A wearable system to analyse tremors in the presence of external stressors', International Journal of Biomedical Engineering and Technology, Inderscience publishers, October 2020 (under press).
- **J.V.Alamelu, A Mythili** - 'Linear Quadratic Regulator Based Optimal Parameter Selection Method for Motors Employed in Infusion Pump', Solid state technology, Vol. 63(4), 2350-2355, October 2020.

Paper Presentation in International Conferences:

- **J. V. Alamelu** and A. Mythili, -'Prediction of speed for smart insulin pump utilizing adaptive neuro fuzzy inference system and ANN', International Conference on Communication, Circuits, and Systems (iC3S 2020),KITS, Bhubaneswar 16th 18th October 2020.
- **Christina Grace Danny, M Danny Raj, V V R Sai** - 'Geometric optics based modelling of optical fiber sensors', Synergies in Computational Mathematical, Statistical & Physical Sciences (FIM 28: SCMSPS 2020) organized by FIM, Stella Maris College, and SSN College of Engineering, Tamilnadu, 23rd -27th November 2020.

Guest Lectures – Invited:

- **Mr. Muthu Kumar**, Siemens, ISA member - 'Installation and commissioning of process instruments', 20-09-2020.

Guest Lectures – Delivered:

- **Mrs. Vibha B Raj** - 'Introduction to Robotics and Robot simulation software' for the students and faculty members of Sri Venkateswara Institute of Science and Technology, Thiruvallur, Chennai, Tamilnadu,05-12-2020.
- **Dr. Christina Grace** - 'Geometric optics based modelling of optical fibre systems' in 28th International Conference (Virtual) of Forum for Interdisciplinary Mathematics (FIM) - Synergies in Computational, Mathematical, Statistical and Physical Sciences (FIM 28: SCMSPS 2020) organized by FIM, Stella Maris College, and SSN College of Engineering, Tamilnadu - 23.11.2020 to 27.11.2020.

Funds - Consultancy:

- **Mr. G. Shivaprakash** – 'Collaborative consultancy and technical guidance in the development of PLC based pneumatic and hydraulic experimental setup from Analog and digital devices (ADD)', Bangalore.

Grant: Rs. 50,000/-

- **Dr. H.S. Niranjana Murthy** – 'Technical guidance for the Development and evaluation of PLC based Faucet life testing machine from Flow and Force Engineers', Bangalore for 18 months.

Grant: Rs. 2,00,000/-

- **Dr. H.S. Niranjana Murthy** – 'Technical guidance for the Development of customized IoT boards from SST technologies', Bangalore for 6 months.

Grant: Rs. 50,000/-

Faculty Achievement:

- **Dr. H.S. Niranjan Murthy** – Reviewer for International Conference on Adaptive Computational Intelligence to be held on 15.12.2020 at GSSSIETW, Mysuru and International Conference on Communication, Circuits, and Systems (iC3S 2020) held from 16.10.2020 – 18.10.2020 at KITS, Bhubaneswar, India.
- **Dr. M.D. Nandeesh** – Reviewer for International Conference on Communication, Circuits, and Systems (iC3S 2020) held from 16.10.2020 – 18.10.2020 at KITS, Bhubaneswar, India.
- **Mrs. J.V. Alamelu** – Technical committee member for the 8th International conference on control, Mechatronics and Automation held from 6.11.2020-8.11.2020 at Moscow, Russia (Virtual).

DEPARTMENT OF INFORMATION SCIENCE ENGINEERING

- AICTE Sponsored Short Term Training Programme (STTP) On 'Intelligent Edge Computing Techniques for Diverse Applications' from 2nd - 7th November 2020. This program included expert talks from speakers from eminent companies and academic institutions. Participants were faculty from various institutions across the nation and professionals

from industry. Sessions included discussions regarding Edge computing, Edge analytics, Edge Intelligence, applications on edge intelligence and edge computing, usage of edge computing in virtual reality and augmented reality.

- AICTE Sponsored Short Term Training Programme (STTP) On 'Intelligent Edge Computing Techniques for Diverse Applications' from 14th - 19th December 2020 -. This STTP included expert talks from speakers from eminent companies and academic institutions. Sessions included discussions regarding Edge computing, Edge analytics, Edge Intelligence, applications on edge intelligence and edge computing, usage of edge computing in virtual reality and augmented reality. Working of several simulators were also demonstrated in this STTP.
- Workshop on iOS App Design and Development from 21st to 23rd Dec, 2020 - The Department in association with IEEE, CIS, Bangalore Section conducted 3 days hands on session. Mr. Noor Mohamed Jeelani, an apple certified trainer in Mac OS educated the participants on nuances of Mac OS usage on first day. Mr. Shashidhara H S, faculty of ISE and an Apple Certified Trainer in iOS App Development and Karthik of ISE conducted sessions on iOS App Development on the second day followed by a session on iOS App Development ecosystem session by Mr. Krishnaprasad Jagadish from Parjanya Creative Solutions.

Publications in (National / International) Journals (Faculty):

- Ravi C Bhaddurgatte, **Vijaya Kumar B P**, Kusuma S M – 'Adoption of Blockchain for Security in IoT Considering QoS', International Journal of Advanced Trends in Computer Science and Engineering, Volume 9 (5), 2020, pp7040 - 7051.
- Sujatha Joshi, **Mydhili K Nair** – 'A Risk Assessment Model for Patients Suffering from Coronary Heart Disease Using a Novel Feature Selection Algorithm and Learning Classifiers', Advances in Artificial Intelligence and Data Engineering, Springer, vol.1133, 2020, pp. 237 – 249.
- Srinidhi H, **Siddesh G M**, Srinivasa K G – 'A Hybrid model using MaLSTM based on Recurrent Neural Networks with Support Vector Machines for

- Sentiment Analysis', Engineering and Applied Science Research (EASR), Vol. 47(3), 2020, pp.232 – 240.
- Srinidhi H, **Siddesh G M**, Srinivasa K G –'Supervised ECG wave segmentation using convolutional LSTM', Information & Communications Technology Express (ICT Express), , Vol.06(03), 2020, pp.166-169.
 - Nagaratna M Raikar, **Megha P Arakeri** –'Development of vehicle speed estimation technique using image processing', International Journal of Engineering Research and Technology, Vol. 9(9), 2020, pp. 264 - 271
 - Kirankumar Kataraki, **Sumana M** – 'A Parallel Task Scheduling Algorithm for Scientific Workflows in Heterogeneous Cloud Environment', International Journal of Advanced Science and Technology, Volume 29(10), 2020, pp.4312-4321.
 - **Savita K Shetty**, Kavya K – 'Classification of Breast Cancer Histopathology Images using Machine Learning Algorithms', International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9(10), 2020, pp. 442 - 444.
 - **Rajeshwari S.B**, Jagadish Kallimani – 'Optimized Abstractive Text Summarization using Semantic-graph based Approach to Analyze Mental health', International Journal of Advanced Science and Technology, Vol.29(6s), 2020, pp. 4046 - 4072.
 - **Rajeshwari S B**, jagadish Kallimani – 'Multi-Document Abstractive Text Summarization System by incorporating Various Linguistic Features', International Journal of Advanced Science and Technology, Vol.29(5), 2020, pp. 12332 – 12344.
 - **Pushpalatha M N**, Mrunalini – 'Predicting the Priority of Bug Reports using Classification Algorithms' Indian Journal of Computer Science and Engineering (IJCSE), Vol. 10. Issue 1, 2020.
 - Banupriya A S, **Pushpalatha M N** – 'Prediction of Priority and Severity of Bug Reports using Deep Learning Techniques', IJESCA, Vo.10, Issue 8, 2020, pp. 27025 – 27028.
 - **Shruthi G**, Ayesha A –'Image Processing Concepts for Brain Tumor MRI Image Classification', International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-10, 2020, pp. 86 - 92.

- **Krishna Raj P.M**, Shruthi G – 'Brain tumor classification using convolution neural network with parallel processing', International Journal of Advanced Research in Engineering and Technology, Vol.11, Issue 2, 2020, pp.1609-1619.

Paper presentation in National / International Conferences:

- Chaitra Ravi, **Rajaram M Gowda** – 'Development of Image Stitching Using Feature Detection and Feature Matching Techniques', IEEE International Conference for Innovation in Technology (INOCON), Oct 2020.
- Rashmitha H.R, **Sumana M** – 'Identification and Management of Frauds in Edge Computing Systems', IEEE Xplore, IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), 2020
- **Pushpalatha M N** – 'Friendly Chat - A chat application with multi headed classification models for identifying abusive levels and their comparative study', First International Conference on Advances in Physical Sciences and Materials (ICAPSM 2020), Coimbatore, Tamil Nadu, 2020

Guest Lectures – Delivered by Department Faculty:

- **Dr. Mydhili K Nair** - delivered a lecture on Block Chain Technology in a workshop held at east West Institute of Technology on 9th Dec, 2020.

Funded project:

- **Dr. Vijaya Kumar B P and Dr. Megha P Arakere** – consultancy work on Internet of Things and Machine Learning Projects from Tech Machinery and Pvt. Ltd.

Grant: Rs. 30,000/-

- **Dr. Megha P Arakeri** – for website and mobile app development from NextRu Livelihood Pvt. Limited, Bangalore.

Grant: Rs. 65,000/-

- **Dr. Megha P Arakeri** – for website development to monitor manholes from Niruvanam - An integrated GIS Solution.

Grant: Rs. 37,000/-

- **Dr. Krishnaraj P M** - for integrated software development from M/S Comcepts, Mysore.

Grant: Rs. 1,00,000/-

Achievements /Awards /Prizes by Faculty/Staff/Student:

- **Shashidhara H S** - Associate Professor is awarded with Apple Certified Trainer for iOS App Development Certification during October, 2020 from Apple Inc.
- **AbhinavKoul, Sai Sumanth, Ishaan Virmaani** - 5th sem students of ISE won First prize in Smart India Hackathon held in August 2020.
- **Rithik Agarwal, Parth Vyas, Nidhi Bhat, UmerFaruk, Satyam Kumar, Kashish Gulati** - 5th sem students of ISE won first prize in Smart India Hackathon held in August 2020.
- **RaghavMaheshwari, Mohan Kumar K, Manvendra Bansal** - 7th sem students of ISE won first prize in 'Solve for India Hackatho' held at Atria Institute of tech in association with IEEE Bangalore section during 28th and 29th November, 2020.

DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

- Two-day Online Workshop on 'How to do Project effectively and importance of Technical Writing', 6-7 November 2020.

Publications in National / International Journals:

- S.B. Ashoka, M.Hanumanthappa, **S.J. Mahendra** - 'Automated Voter System by using Fingerprint and offline Data set with texture Image Processing', Advances in Intelligent Systems and Computing, AISC, vol. 1187.

Paper presentation in National / International Conferences:

- N S John, **N Sriraam**, R J Martis, S B SVMS, J A Nc-'Computational Method for Preterm Labor Prediction using Electrohysterogram', 2020 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Udupi, 2020, pp. 177-182.

doi: 10.1109/DISCOVER50404.2020.9278064.

- **B. Hiremath, N. Sriraam, B R Purnima, V S Babu** -'Single Channel based Demarcation of Yogic and Non-Yogic Sleep Patterns using Observational Sleep EEG', 2020 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), Udupi, 2020, pp. 183-187.

doi: 10.1109/DISCOVER50404.2020.9278081.

Guest Lecture/s Invited:

- Varditha M L - Application Development Analyst, Accenture - 'Safety First, so we last', on 24th Nov 2020.

Guest Lecture Delivered by the Department faculty:

- **Dr. Sriraam**, - 'Effect of feature selection on Physiological Signals: A Quantitative Analysis', during AICTE sponsored six days online STTP on Data Analytics in Biomedical Engineering organized by Department of Biomedical Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamilnadu, on 23rd Nov 2020.
- **Dr. Sriraam**, - 'CAD based approach for clinical Decision Support System: Case studies with 1-D and 2D Biomedical Data', during AICTE sponsored six days online STTP on Data Analytics in Biomedical Engineering organized by Department of Biomedical Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamilnadu on 7th Dec 2020.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Publications in National / International Journals

- **Krishna Prasad S J**, Aneesha Johnson, Mohana Kumar S - 'Lung cancer detection with prediction employing machine learning algorithms', International Journal of Advanced Trends in Computer Science and Engineering, Vol. 9, No.5, 2020.
- **Ramya H R, B.K.Sujatha** - 'Real Time Image Fusion based Technique for medical images', Journal of Computational and Theoretical Nanoscience, Vol. 17, 2020, pp. 1-8.

Paper presentation in National / International Conferences

- Deepa Pattar, Preeti Dongaokar, **Nisha S L** – 'Metamaterial for design of Compact Microstrip Patch Antenna', IEEE Bangalore Humanitarian Technology Conference (B-HTC), 8th-10th Oct, 2020.
- Deepa Pattar, Preeti Dongaokar, Nisha S L, **Swetha Amith** - 'Design and Implementation of Metamaterial Based Patch antenna', IEEE International Conference for Innovation in Technology (INOCON), Bengaluru, Nov 6th-8th, 2020.
- Meghana DMJ, **Kusuma SM** – 'High Speed Interconnect: Impact of Novel Strip Line for IOT Application', IEEE International Conference for Innovation in Technology (INOCON), Bengaluru, Nov 6th-8th, 2020.
- Sonali Chaudhary, **Ramya H R** - 'Detection of Diabetic Retinopathy using Machine Learning Algorithm', IEEE International Conference for Innovation in Technology (INOCON), Bengaluru, Nov 6th-8th, 2020.
- Sagarika G K, **Krishna Prasad**, Mohana Kumar S – 'Paddy Leaf Disease Classification and Prediction Using convolutional neural network', 5th International Conference on Recent Trends on Electronics, Information, Communication & Technology, (RTEICT-2020), Organized by Sri Venkateshwara College of Engineering, Bengaluru, November 12th-13th, 2020
- **Krishna Prasad, S J Viswanath Talasila**, Mohana Kumar.S - 'Simulation and modelling of Fiber Bragg Grating sensors', 5th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2020), Organized by Sri Venkateshwara College of Engineering, Bengaluru, November 12th-13th, 2020.
- **Umesharaddy Radder, S.G.Shivaprasad Yadav, B K Sujatha**, Anusha Hiremath – 'Design and Development of Precoding Algorithm', 5th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2019), Organized by Sri Venkateshwara College of Engineering, Bengaluru, November 12th-13th, 2020.
- Keshavamurthy, Shivashakar, S.M Hunagund, **S. G. Shiva Prasad Yadav**, A Vinutha – 'Implementation

of Secure Multicast Routing for Cognitive Satellite-Terrestrial Networks', International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Organized by Sri Venkateshwara College of Engineering, Bengaluru, November 12th-13th, 2020.

Funded Project

ONGOING:

- **Dr. B K Sujatha**, Principal Investigator and Co-PI **Dr. Swetha Amit** – 'Performance Characterisation of Flexible Wearable Antenna for Dynamic IoT Connectivity', sponsored by AICTE under MODROBS Scheme.
- **Dr. B.K Sujatha**, Principal Investigator and Co-PI **Dr. Swetha Amit** – 'Centre of Learning for setting up Microwave and Antenna Lab'sponsored byVGST K-FIST Level 2.
- **Dr.Viswanath Talasila** - 'Development of a Prosumer Driven Integrated SMART Grid'sponsored by DST.
- **Dr. Shobha K.R**, Principal Investigator and Co-PI **Dr. S G Shivaprasad Yadav** – 'Setting up of Internet of things (IoT) based Sensor Network Lab'sponsored byVGST K-FIST Level 2.

Faculty who obtained Ph.D degree



Dr. H R Ramya, Assistant Professor- Completed Final Ph.D. Defense under VTU on 23rd September 2020 titled 'Performance Enhancement of Multisensor Medical Image Fusion using Hybrid Fuzzy Logic' under the guidance of Dr. B K Sujatha, Professor, Head of the Department, Electronics and Telecommunication Engg.

DEPARTMENT OF BIOTECHNOLOGY

- The Department of Biotechnology & Department of Chemistry, RIT, have organized a Fifteen days Online Short-Term Course on 'Nanomaterials: Synthesis, Characterization and applications' from 1st to 16th December 2020.

- Three-day AICTE sponsored E-Conference webinar on 'Recent Trends and Technologies in Biotechnology and Allied Sciences' from 5th to 7th November 2020.
- Five-day online add-on course on 'Nanotechnology in Biomedical Applications' jointly organized by Dept. of Biotechnology, RIT in collaboration with the University of Illinois at Chicago" from 26th to 30th October 2020.

Publications in International Journals:

- **T. P. Krishna Murthy**, B. S. Gowrishankar, R. Hari Krishna, M N Chandrababha, Blessy Baby Mathew – 'Magnetic modification of coffee husk Hydrochar for adsorptive removal of methylene blue: Isotherms', kinetics and thermodynamic studies, Environmental Chemistry and Ecotoxicology, 2020, 2, 205-212.
- **T. P. Krishna Murthy**, R. Hari Krishna, M N Chandrababha, G Divyashri, Crasto Vanessa, S V Dhanyatha, et al. – 'Glycerol mediated solution combustion synthesis of nano magnesia and its application in the adsorptive removal of anionic dyes', Nano Express, 2020, 1(3), 030018.

Guest Lecture- Invited:

- **Dr. Gopinath Packirisamy**, Associate Professor, IIT Roorkee, on 'Methods to study the toxicity of nanomaterials', on 18.12.2020.
- **Dr. Hoysala N Chanakya**, Chief Research Scientist, Centre for Sustainable Technologies Indian Institute of Science, Bengaluru delivered a talk on 'Microbiological waste management', on 27.11.2020.
- **Dr. Narendrakumar Ramanan**, Associate Professor, Centre for Neuroscience, IISc, Bengaluru, on 'Neuroprotective Reactive Astrocytes in Neural Injury and Neurodegenerative disorders' on 27.11.2020.

Funded projects:

- **Dr. Chandra Prabha M N & Dr. Hari Krishna R** - 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, dated 26.12.2020, Rs.41.83 Lakhs.
- **Dr. Chandra Prabha M N & Dr. Hari Krishna R** - Designing of Novel Biocompatible and Multifunctional

Nano Ceramic Coatings for Medical Implants., dated 09.11.2020, Rs.30.0 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 funds, Rs. 5.0 Lakhs.
- **Dr. Lokesh K N** - Stimuli-Responsive Polymeric Particles Containing Iron (III) Chelating Bioactive Ligands for Mitigation of Intracellular Labile Iron Pool (LIP), Science Engineering Research Board, DST, dated 25th Nov 2019, Rs. 18.30 Lakhs.
- **Dr. Bindu S & Mrs. Vijayalakshmi V** - In Vitro Studies on Effects of Carbon Nanotubes on Antioxidant Mechanism in Human Neuronal Cells, IEI R&D Grant-in-Aid Scheme, Dated 16.07.2019, R.6/2/DR/2019-20/DR2020006, The Institution of Engineers, India(IEI), Rs. 0.8 Lakhs.
- **Dr. Bindu S & Dr. Dhamodhar P** - BiSEP (Biotechnology Skill Enhancement Programme), Domain: Biopharmaceutical Technology, KBITS, Govt. of Karnataka, Rs. 162.5 Lakhs.
- **Dr. Chandrababha M.N, Mrs. Sanchitha Sharma** - 'Enhanced Production of Indian (Precursor of Indigo Dye) from cell suspension culture of Indigoferatinctoria and it's up scaling through the bioreactor', DST, Rs. 23.72 Lakhs.

Achievement/s, Awards/Prizes by Faculty:

- **Dr. Bindu S**, Professor, received 'Mentor - Best Project of the Year' under 43rd Series of KSCST Student Project Programme, 2020.

Achievement/s, Awards/Prizes by Students

- **Ms. Arpitha R**, IV Semester of M.Tech, received 'Best Project of the Year' under 43rd Series of KSCST Student Project Programme – 2020.

DEPARTMENT OF MATHEMATICS

Publications in (National / International) Journals:

- **Y. S. Kalyan Chakravarthy and S. Ramprasad** – 'Multiple slip and inspiration effects on Hydro magnetic Casson fluid in a channel with stretchable walls', International Journal of Heat and Technology, Vol. 38, No. 4, 817-826, 2020

- In association with Post Harvesting Department, GKVK, Bangalore, Luminescence Society of India: Karnataka Chapter (LSIKC), arranged an online talk by Dr. Suresh G.J, Professor of Post Harvesting Department, University of Agricultural Sciences, GKVK Bangalore on 16-10-2020
- Dept. of Chemistry conducted e-webinar on 'Software applications for materials modeling' on 19-10-2020 in association with DHIO Research & Engineering Pvt. Ltd. Bangalore

- In association with Luminescence Society of India: Karnataka Chapter, Dept. of Chemistry, Mechanical Engineering – RIT, Dept. of Post Harvesting – Horticultural Sciences University, Bagalkot conducted e- Workshop on Value addition, marketing and Entrepreneurship opportunities in Agriculture/ Horticulture, on 26th, 27th and 28th of November 2020.



- Department conducted Research Collaboration meeting with Shriram Institute for Industrial Research (SRI), Bangalore on 21-11-2020.



- One day workshop 'Raitha Sambruddhi' was conducted for Farmers at Heggavadipura, Near Chamarajanagar. This program was arranged by Luminescence Society of India: Karnataka Chapter (LSIKC) in association with 'Ugam Farm' - Heggavadipura on 13-12-2020.



- Department of Chemistry conducted 'Research Collaboration' meeting with Chariton Research Institute (CRI), Yeshwanthpur, Bangalore on 09-12-2020.

Publications (National / International) Journals:

- T.P.Prasanna Kumara, K.Sunil B. Arunkumar and **S. B. Patil** – 'Formulation and Evaluation of Multipurpose Topical Cream by Using Natural Schiff base active Ingredients', AIP Conference Proceedings Vol. 2274, 050001, 2020, <https://doi.org/10.1063/5.0022472>.
- **Sharanabasappa B. Patil** – 'Biological and Pharmacological Significance of Benzimidazole Derivatives: A Review. IJPSR', 2020, Vol. 11(6): 2649-2654. DOI: 10.13040/IJPSR.0975-8232.11(6).2649-54.
- **B. M Nagabhushana**, Prashanth G K - 'Effect of doping (with cobalt or nickel) and UV exposure on the antibacterial, anticancer, and ROS generation activities of zinc oxide nanoparticles', J. of Asian Ceramic Societies, Volume 8, 2020, 175-187
- **Sharanabasappa B. Patil**, Shreya K and Kruti S – 'Extraction of Amino acids from Human Hair "Waste" and Used as Natural Fertilizer', J. Pharm. Sci. & Res. Vol. 12(2), 2020, 271-278.
- **Sharanabasappa B. Patil** – 'Medicinal Significance of Pyrazole Analogues: A Review' J. Pharm. Sci. & Res., Vol. 12(3), 2020, 402-404.
- Ghorpade, **Nagaraju Kottam**, Raveendra Melavanki, N.R Patil – 'Photoluminescence, TGA/DSC and photocatalytic activity studies of Dy³⁺ doped SrY₂O₄ nanophosphors', International Journal, RSC Advances, vol. 10, 2020, 21049-21056.
- Smrithi Sailaja, Prasannakumaran Nair, **Nagaraju Kottam** – 'Green Synthesized Luminescent Carbon Nanodots for the Sensing Application of Fe³⁺ Ions', International Journal of Fluorescence, 2020, 1-7
- Pranav, C.M. Madhu, **Nagaraju Kottam** – 'Mechanical and electrical properties evaluation of PVA – Carbon dot polymer nanocomposites', Indian Journal of Chemical Technology (IGCT), 27(6), 2020, 488-495.
- S.S Nandi, A Suryavanshi, V Adimule, **Basappa C Yallur** – 'Super capacitor characteristics of novel rare earth perovskite nanomaterials of Sr_{0.5}Cu_{0.4}Y_{0.1}', AIP Conference Proceedings, 2274 (1), (2020) 020007.

- SS Nandi, A Suryavanshi, V Adimule, **B.C Yallur** – 'Fabrication of novel rare earth doped ionic perovskite nanomaterials of $\text{Sr}_{0.5}\text{Cu}_{0.4}\text{Y}_{0.1}$ and $\text{Sr}_{0.5}$ and $\text{Mn}_{0.5}$ for high power efficient energy harvesting ...', AIP Conference Proceedings, 2274 (1), (2020) 020005
- GR Nikhila, SR Batakurki, **B.C Yallur** – 'Synthesis, characterization and antioxidant studies of benzo [4, 5] imidazo [2, 1-b] thiazole derivatives', AIP Conference Proceedings, 2274 (1), (2020) 050017.
- V Adimule, A Suryavanshi, **B.C Yallur**, S.S Nandi – 'A Facile Synthesis of Poly (3octyl thiophene): $\text{NiO}_{0.4}\text{SrO}_{0.6}\text{TiO}_3$ Hybrid Nanocomposites for Solar Cell Applications', Macromolecular Symposia, 392 (1), 2020, 2000001.

Paper Presentation in conferences:

- **Sharanabasappa B. Patil** – 'Pharmacological Significance of *Gymnema Sylvestre*: A Review' International Conference on Multidisciplinary Innovations in Science & Technology (MIST-2020) Organized by R & D cell, The Oxford College of Science, Bangalore. On 18th and 19th September 2020 (Poster).
- **Sharanabasappa B. Patil** – 'Biological Materials and its Applications: A Review' International Conference on Advanced Materials Science and Applications (Online)(ICAMSA-2020) Organized by Department of Physics, Ramaiah Institute of Technology, Bangalore. On 3rd and 4th September 2020 (Poster).
- Gouramma P and **Sharanabasappa B. Patil** - 'Green synthesis of Nanoparticles from Medicinal Plants', International Conference on Advanced Materials Science and Applications (Online) (ICAMSA-2020) Organized by Department of Physics, Ramaiah Institute of Technology, Bangalore. On 3rd and 4th September 2020 (Poster).

Funded project:

- **Dr. Nagaraju Kottam** - 'Environmentally Benign Adsorbents/Catalysts for Waste Water Treatment and Biological /applications. Received from 'MSRIT-Bangalore', towards seed money.

Grant: Rs. 5,00,000.00

- **Dr. M.N. Manjunatha** – 'Anticancer activity and molecular modeling studies of transition metal

complexes with novel substituted benzimidazole derivatives'. Granted by 'VGST, Govt. of Karnataka'.

Grant: Rs. 20,00,000.00

- **Dr. P. MuraliKrishna** – 'Environmental friendly coatings: To replace chrome based conversion coatings with chrome-free coatings'. Grant by 'Boeing Research & Technology-India Centre'.

Grant: Rs. \$30,865

Guest Lectures –Invited

- **Dr. S. Balakumar**, Professor and Director National Centre for Nanoscience and Nanotechnology (NCNSNT) Chairman School of Nano Science and Photonics University of Madras, Chennai -'Nano materials for biomedical technology' on 05-12-2020.

Guest Lectures – Delivered by Department Faculty

- **Dr. B M Nagabhushana** - 'Low temperature synthesis method for preparing technologically important nano-structured oxide materials', FDP on 'Recent trends in advanced Materials and Applications'. Dept. of Physics. The National Institute of Engg, Mysore. 19-10-2020.

DEPARTMENT OF PHYSICS

Publications in (National / International) Journals:

- **S. Vijayanthimala**: 'COVID-19: Understanding the Pandemic emergence, Impact and Infection Prevalence Worldwide', Journal of Pure and Applied Microbiology, 14(4): December 2020.
- **R.M. Melavanki** - 'Computational and Spectroscopic Studies of Biologically Active Coumarin based Fluorophores, Luminescence', The journal of biological and chemical luminescence, 28th December 2020, <https://doi.org/10.1002/bio.4002>

Funded Project:

- **Dr. Sandhya K L**: Experimental investigations on developing LC nanocomposites for energy storage applications, VGST, Rs. 15 lakhs.

DEPARTMENT OF HUMANITIES

Publications in (National / International) Journals:

- **Dr. Premila Swamy D, Mr. Udayakumar. HM**- 'Impact and effectiveness of Massive Open Online Courses: A study with reference to specific NPTEL course on engineering students', Shodh Sanchar Bulletin- Journal of Arts, Humanities and Social Sciences, an International Multidisciplinary Quarterly Bilingual Peer-Reviewed, Refereed Research Journal, UGC approved Care listed Journal,. Volume 10, Issue 40, ISSN - 2229 – 3620, 24:11:2020, pp 76-80.
- **Dr. Premila Swamy D, Mr. Udayakumar. H M** - 'An overview and perception of engineering students and teachers towards Massive Open Online Courses (MOOCS) in India: A study. ShodhSarita- Journal of Arts, Humanities and Social Sciences an International Multidisciplinary Quarterly Bilingual Peer-Reviewed, Refereed Research Journal, UGC Approved Care Listed Journal, Volume 7, Issue 28, ISSN - 2348 – 2397, 29-12-2020, pp 179-183.
- **Dr. Premila D Swamy** - Book Chapter on 'Recent Trends and Strategies in Teaching of English Language to Rural students in India- A Study' published in Review of Language, Literature, Science, Commerce and Humanities, Shanlax Publications, ISBN 978-93-90082, December 2020.
- **Dr. Premila D Swamy** - Conference Proceedings: 'Sustainability through Mental Health and Hygiene for young rural women: A Study' in the National E Conference Proceedings on CSR Impetus: Rural Development and Sustainable Growth in India Nandha College of Technology published as Conference proceedings with ISBN 978-81-94734307, December 2020.

Paper Presentation in International /National Conferences (Faculty):

- **Dr. Premila Swamy D** - 'Sustainability through Mental Health and Hygiene for young rural women: A Study', in National E Conference organized by Nandha College of Technology, Erode, Tamil Nadu, India on 3rd December 2020.
- **Dr. Premila Swamy D** - 'Introducing Science Fiction for Engineering graduates in Technical Institutions: in

Scope and Limitation' in International Science Fiction Conference organized by Bangalore University & Indian Association for Science Fiction Studies. 7th to 10th December 2020.

Guest Lectures – Delivered by Department Faculty:

- **Dr. Premila Swamy D** - session chaired in the Panel discussion on 'Science fiction curriculum in the international Science fiction conference' organized by Bangalore University & Indian Association for Science Fiction Studies. 7th to 10th December 2020.

MASTER OF COMPUTER APPLICATIONS

- AICTE Sponsored Six-Day Online Short Term Training Programme (STTP) on 'Selenium Web driver using Python', Department of MCA, RIT, Bangalore conducted AICTE Sponsored 6-day STTP (4 Series) 4/11/2020 to 04/12/2020. On 'Selenium Web driver using Python', each series selected 60 participants have participated through virtual mode. The technical talk was given by eminent speakers from different industries and academia.

Publications in (National / International) Journals:

- **S. Jagannatha and B. N. Tulasimala** – 'A Comprehensive Study on Commercial Applications of Cloud Computing' published in. Journal of Computational and Theoretical Nanoscience 17, Sept/Oct 2020 ISSN: 1546-1955, EISSN: 1546-1963, pp: 4463–4470.
- **Geetanjali R, Dr. S Jagannatha, Dr. Niranjanamurthy M, Dr. Dayananda. P** – 'Methodical Applications for Cyber Security using Deep Learning Technique' published in the journal of Solid State Technology, ISSN: 0038-111X, Volume: 63, Issue: 6 Oct 2020. Pp: 7345-7359.
- **S. Jagannatha and K. Sujatha** - 'Performance Analysis of Batch Jobs in Cloud Environment published in Journal of Computational and Theoretical Nanoscience 17, Sept/Oct 2020 ISSN: 1546-1955, EISSN: 1546-1963, pp:4197–4202.
- **A Venkatesh, Niranjanamurthy M, P Dayananda, M P Amulya** - 'Using Video Conference Applications to conduct Interviews during Covid-19 Pandemic'

Journal- Solid State Technology, Volume 63, Issue 5, Oct 2020, ISSN 0038- 1111X Pp.: 6391-6399.

- **M. Niranjanamurthy, H. K. Yogish, K. L. Abhishek, and M. P. Amulya** – 'Progression of Information Sharing, Managing, and Storage Using Cloud Environment' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9329>, Volume 17, Numbers 9-10, September/October 2020, pp. 4525-4530.
- **M. Niranjanamurthy, M. P. Amulya, N. M. Niveditha, and P. Dayananda** – 'Creating a Custom Virtual Private Cloud and Launch an Elastic Compute Cloud (EC2) Instance in Your Virtual Private Cloud' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9106>, Volume 17, Numbers 9-10, September/October 2020, pp. 4509-4514.
- **M. Niranjanamurthy, N. M. Niveditha, M. P. Amulya, and A. R. Namitha** - 'Technological University and Its Affiliated Engineering Colleges Event Tracking System Using Blockchain Technology' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9104>, Volume 17, Numbers 9-10, September/October 2020, pp. 4493-4499.
- **B. Pavithra, M. Niranjanamurthy** – 'Web Page Recommendation Using Genetic and Feed Forward Association Rule on Web-Log Features' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9098>, Volume 17, Numbers 9-10, September/October 2020, pp. 4462-4467.
- **Ramakrishnan M. Ramanathaiah, Bhawna Nigam, and M. Niranjanamurthy** – 'Construction of User's Navigation Sessions from Web Logs for Web Usage Mining' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9091>, Volume 17, Numbers 9-10, September/October 2020, pp. 4432-4437.
- **Bhawna Nigam, Anvika Sharma, B. Basavaprasad, and M. Niranjanamurthy** – 'Analysis of Rice Ageing Process Using Fuzzy and Graph Cut' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9083> SCOPUS Indexed Journal Volume 17, Numbers 9-10, September/October 2020, pp. 4394-4397.
- **H. K. Yogish, Niranjanamurthy, and K. L. Abhishek** – 'Smart Wastage Monitoring System with the Internet of Things Capability and Location Tracking' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9069>, Volume 17, Numbers 9-10, September/October 2020, pp. 4318-4324.
- **Mausumi Goswami, M. Niranjanamurthy, Anlin Assisi, Sanjana Pillai, Christy Sunny, B. S. Rakshitha, and B. S. Purkayastha** – 'A Comparative Analysis and Critical Review of Summarization Techniques' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9039>, Volume 17, Numbers 9-10, September/October 2020, pp. 4167-4171.
- **R. Geetanjali, Charles Galaxyaa, and M. Niranjanamurthy** - 'How to Overcoming Cyber Security Challenges Using Data Science' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.9029> Volume 17, Numbers 9-10, September/October 2020, pp. 4116-4121.
- **E. Naresh, Madhuri D. Naik, M. Niranjanamurthy, and Sahana P. Shankar** - 'Functional Testing on Heart Disease Detection Using Multilayer Perceptron Technique' Journal of Computational and Theoretical Nanoscience, DOI: <https://doi.org/10.1166/jctn.2020.8988>, Volume 17, Numbers 9-10, September/October 2020, pp. 3915-3920.

Guest Lecture/s – Invited

- **Jebastin**, Photon Infotech, Bangalore – 'Profile Building' 06-11-2020.
- **Sikander**, Head, Technology, Cranes varsity – 'How to crack a Job interview in IOT, Embedded Systems & VLSI' 06-11-2020.
- **Shashidharan AN**, Consultant, Banking Domain – 'Banking System' 21-11-2020.
- **Muthuraj.M**, Senior Systems Engineer, CISCO – 'New Normal in IT' 28-11-2020.
- **K. Praneeth Kumar**, Global Technology Delivery Lead, Medtronic – 'Healthcare' 23-12-2020.

Guest Lecture Delivered

- **Dr. Manish Kumar** – 'Ethical Hacking and Penetration Testing' AICTE ATAL Sponsored Five Days Faculty Development Program organized by Manipal Institute of Technology, MAHE, Manipal, Karnataka, India. 13th November 2020.
- **Dr. Manish Kumar** – 'Applications of AI, ML and Blockchain in Cybersecurity' organized by NITTE Meenakshi Institute of Technology, Bangalore, India. 11th November 2020.
- **Dr. Manish Kumar** – 'Blockchain and Cryptocurrency during AICTE ATAL Sponsored Five Days Faculty Development Program', organized by Malnad College of Engineering, Hassan, Karnataka, India. 6th November 2020.
- **Dr. Manish Kumar** - 'Blockchain during AICTE ATAL Sponsored Five Days Faculty Development Program', organized by the NMAM Institute of Technology, Mangalore, India. 15th -16th October 2020.
- **Dr. Yogesh H K** – 'Smart Contracts' during AICTE ATAL Sponsored Five Days Faculty Development Program', organized by Malnad College of Engg. Hasan, 06-11-2020

DEPARTMENT OF MANAGEMENT STUDIES



- The Department of Management Studies in association with AICTE organized 2 Day National E-Conference on Social Entrepreneurship Issues and Challenges on 20th and 21st November 2020. Dr. Shivaram.R. Koteswar, R & D Head, Founder Trustee of Belakoo Trust was the Chief- Guest of the Conference.

Publications in (National /International) Journals:

- **Dr. P.V. Raveendra, Dr. Y.M. Satish** – 'Changing Landscape of Recruitment Industry - A study on the impact of artificial intelligence on eliminating hiring bias from recruitment and selection process' in the Journal of Computational and Theoretical Nanoscience, Vol.17, 1-4, 2020.
- **Dr. A.Mahalakshmi** – 'Effect of COVID 19 on Air Passengers' Travel preference and Satisfaction during Pre and Current Pandemic, State Solid Technology, Vol.63, Issue 6, 2020.
- **Mrs. S.B.Rashmi, Dr. Arunkumar. D.C** – 'Consumer Perception towards Online Home Services' in the Journal of Computational and Theoretical Nanoscience, Vol. 17, 2020, pp. 4442–4445.

Paper presentation in International / National Conferences:

- **Dr. P.V.Raveendra** - 'Social Entrepreneurship: Issues and challenges' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. P.V.Raveendra** - 'Social Enterprises: Lessons to be learnt' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. Rizwana. M** - 'Social Entrepreneurship in Karnataka Region: The hampering barriers' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. P.V. Raveendra** - 'Why do social business models fail? A case-based analysis of TOMS' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. A. Mahalakshmi** – 'Challenges and Barriers faced by Social Entrepreneurs due to COVID 19 in India' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. A. Mahalakshmi** – 'Problems and Prospects of Social Entrepreneurship in India-A' Review in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.

- **Dr. T. Mohansundaram** – 'Entrepreneurship: A descriptive study on factors igniting passion among management graduates' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. T.Mohansundaram** – 'Effect of International Trade and Inflation on India's Industrial Growth: An Empirical investigation' in the SIMS 11th Annual International Research Conference from 21st to 23rd December 2020.
- **Dr. G.Vijayakumar** – 'Influence of servant leadership style on the effectiveness of social entrepreneurship' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. G.Vijayakumar** – 'The contribution of social entrepreneurs in India and the challenges faced by social entrepreneurs' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. Pallavi. B** – 'India's Social Enterprise Landscape- Evolving towards an inclusive future', in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. Pallavi. B** – 'Self-help groups-A means to elevate social entrepreneurship' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Mrs. S.B.Rashmi** – 'Challenges of Social Entrepreneurship' in the E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. Arunkumar. D.C** – 'Social Entrepreneurship: Issues and challenges' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. Vaijanath Babshetti** – 'Efficient Market Hypothesis to Behavioral Finance: A Review of Rationality to Irrationality' in the International Conference on Research in Science, Engineering, Technology and Management-2020 on 28-12-2020.
- **Dr. Jyothi.E.Singh** – 'India's Social Enterprise Landscape-Evolving towards an inclusive future' in National E-Conference on 'Social Entrepreneurship:

Issues and Challenges' on 20th & 21st November 2020.

- **Dr. Jyothi.E.Singh** – 'Self-help groups-A means to elevate social entrepreneurship' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.
- **Dr. Jyothi.E.Singh** – 'Social Entrepreneurship: A case study of honey and spice' in National E-Conference on 'Social Entrepreneurship: Issues and Challenges' on 20th & 21st November 2020.

Guest Lectures Invited:

- **Mrs. Annapurna** - Emotionalytics- 'Strategies for Improving Work-Life Balance' on 04-10-2020.

Guest Lecture delivered by the department faculty:

- **Dr. Rizwana.M** – 'Goal Setting' at Dr. NGP Arts and Science College on 26-11-2020.
- **Dr. T. Mohanasundaram** – 'Basics of time series & ARCH models' at Alagappa University in 14-10-2020.
- **Dr. T.Mohanasundaram** – 'Econometric Models: Theory and Practice' at Alagappa University in 15-10-2020

LIBRARY AND INFORMATION CENTRE

Faculty who obtained Ph.D.Degree:



Mr. Kotreshappa. A. G, Assistant Librarian has been Awarded Ph.D. degree for his work on 'Library Resources, Library Facilities and Library Support Services to Distance Learners in Selected Open Universities in India- A Study', 26th September 2020, Under Guidance of Dr.M. Anjaiah, Dravidian University, Srinivasavanam, Kuppam (A.P.).

Children inherit the qualities of the parents, no less than their physical features. Environment does play an important part, but the original capital on which a child starts in life is inherited from its ancestors. I have also seen children successfully surmounting the effects of an evil inheritance. That is due to purity being an inherent attribute of the soul.

- Mahatma Gandhi

MSRIT ALUMNI ASSOCIATION

Foundation stone laying ceremony of Alumni Block



- The Management of Ramaiah Institute of Technology has magnanimously donated the site within the Institute Campus for the construction of the MSRIT Alumni Block. The Bhoomi Puja of the block was conducted on 24th December 2020. Sri M.R. Seetharam, Vice Chairman, Gokula Education Foundation & Director, RIT, Sri M.R. Ramaiah, Secretary, Gokula Education Foundation & Director, RIT, Sri B.S. Ramaprasad, Chief Executive, GEF (Engg. & Sc), Sri G. Ramachandra, Chief of Finance, GEF (Engg. & Sc.), Dr. N.V.R. Naidu, Principal, RIT, Sri TallamVenkatesh, President, MSRIT Alumni Association, and Office Bearers of Alumni Association were present.

Award to Outstanding Achievers of all Departments



- Best Achievers of every department and the Outstanding Graduating Student of the institute were awarded Gold Medals from the alumni association, Cash Prize, and Citations on 26th December 2020 at the institute. Sri G. Ramachandra Chief of Finance, Dr. NVR Vice Principal Naidu Principal, Dr. C.G. Puttappa, and Dr. Archana Registrar Academics presented the awards to the Best Achievers.

PLACEMENT & TRAINING

The placement cell invites top companies from India and abroad for campus recruitment. Almost 80% of the students are placed on campus each year. The placement details of UG and PG students who graduated in 2020 is given below in comparison with last four years. The placement process is in progress for the current 2020-21 batch students. Till date 336 companies have visited the campus and 922 offers have been made to students.

NEW APPOINTMENTS

Department of Electrical & Electronics Engineering



Dr. Ratna Rahul Tupakula joined as assistant Professor at EEE, RIT, he obtained B.Tech and M.Tech degrees from JNTU, Anantpur. He has obtained Ph.D. degree from NIT, Warangal in 2019. His research interests are in the area of Smart Grid, Integration of renewable energy sources with Grid, Energy Management and Auditing.



Dr. Nagraj C joined as assistant Professor at EEE, RIT, graduated in Electrical and Electronics Engineering from PESCE, Mandya. He has obtained M.Tech from NIE, Mysuru and Ph.D. from NITK, Surathkal in 2020. His research interests are in the area of Power Flow control and Power quality analysis in Micro-Grid systems, Hybrid Renewable Energy sources integrated with utility Grid, Smart.



Dr. Rakesh Kumar joined as assistant Professor at EEE, RIT, obtained B.E degree from JITM, Odisha. He has obtained M.Tech from BIT, Mesra Ranchi and Ph.D. from IIT, Dhanbad in 2017. His research interests are in the area of Renewable energy, Control System Parameter Tuning, Power Electronics and Drives.

Department of Civil Engineering



Dr. Lokesha joined as Assistant Professor in the Department of Civil Engineering. He received his PhD in Ocean Engineering from Indian Institute of Technology Madras, Chennai, M.Tech. in Marine

Structures from National Institute of Technology Karnataka, Surathkal, and B. E in Civil Engineering from University BDT College of Engineering, Davangere. He is fascinated to do research in the area of Design of Onshore and Offshore Structures, fluid-structure interaction, Coastal and Ocean Engineering, Marine Geotechnical and Soft Computing.

Department of Electronics & Communication



Dr. Sravani K. joined as Assistant Professor, Dept. of Electronics and Communication, RIT. She received her Doctor of Philosophy from National Institute of Technology, Karnataka (NITK) in November 2020.

Her areas of research include Digital and Analog VLSI Design. Her supervisor is Dr Ratnamala Rao.



Dr. Roshan Zameer Ahmed, joined as Assistant Professor, Electronics and Communication, RIT. He received his Doctor of Philosophy from Visvesvaraya Technological University (VTU), Belagavi in the year 2020. His areas of research include Wireless Communication, Computer Networks, and Signal Processing. He is a reviewer of various reputed journals and conferences and chaired many conferences.

Department of Chemical Engineering



Ravi Kumar Reddy Addula is joined as an Assistant Professor in the Department of Chemical Engineering, MSRIT Bangalore since November 2020. He is pursuing my Ph.D in chemical engineering from

IISc Bangalore. He has obtained his M.Tech in chemical engineering from IIT Kharagpur (2009) and B.Tech in Chemical Engineering from JNTU Hyderabad (2007). Prior to joining MSRIT, he had 3.5 years of teaching and 1.5 years of industrial experience.



Dr. Kulbhushan Samal is joined as an Assistant Professor in the Department of Chemical Engineering at MSRIT Bangalore since December 2020. He has done his B. Tech. (2009) in Chemical Engineering from NIT Raipur, M. Tech. (2012) and Ph.D. (2018) in Chemical Engineering from IIT Guwahati.

Department of Computer Science and Engineering



Dr. Sangeetha V. joined as Assistant Professor at CSE, completed her Ph.D. in Computer Science and Engineering, VTU in 2019, M.Tech in Computer Science and Engineering, RVCE, VTU in 2011, B.E in Computer

Science and Engineering, ACIT, VTU in 2004. She is having total 15 years of teaching and research experience. Her areas of interest include Networks and Security, Machine Learning, Internet of Things and Block chain. She is a member of IEEE, IEI, ISTE and IAENG. She has published 21 technical papers in national and International Conferences and Journals.

Department of Information Science and Engineering



Dr. M. Sinthuja Joined as Assistant Professor pursued her Ph.D. in Computer Science and Engineering, Annamalai University in 2019, M.E in Computer Science and Engineering, J.J College of Engineering and

Technology, Anna University in 2011, B.Tech in Information Technology, Anjalai Ammal Mahalingam Engineering College, Anna University in 2009. Her area of research is Data Mining. She has authored 13 publications and 3 Book Chapters.



Mr. Karthik V. joined as a teaching assistant, he is graduated in Computer Science and Engineering Master's degree from Visvesvaraya Technological University. During his masters, He looked into problems

at the intersection of different categories of data like audio, Image, Text, Video and Designing novel system and algorithms. Mr. Karthik V is pursuing a Ph.D. under the supervision of Dr. Savita Choudhary. His research

is in Music information Retrieval of real environments using captured media such as Music, Background tune, Audio data.

Department of Medical Electronics Engineering



Dr. Sweeti – Joined as Assistant Professor at ML, RIT, received her B.E. degree in Biomedical Engineering from DCRUST, Murthal, Haryana (formerly known as C.R. State College of Engineering) and her PhD degree from Indian Institute of Technology Delhi (IITD) in the area of Computational Neuroscience and Signal Processing in 2019. Her research interests are Computational Neuroscience, Neuro-rehabilitation, Biomedical Signal and Image Processing.

Department of Mathematics



Dr. Srikantha N is currently working as an Assistant Professor in Department of Mathematics in RIT. He was previously working at GM Institute of Technology, Davanagere. He received his Ph.D degree from Kuvempu University for his research work on 'A Study on Submanifolds of Almost Contact and Lorentzian Manifolds'. To his credit, he has six research articles in international Journals and presented several research papers in national and international conferences

What we are doing to the forests of the world is but a mirror reflection of what we are doing to ourselves and to one another.

- Mahatma Gandhi

RANK HOLDERS

Electrical & Electronics Engineering

UG - Programme



Kishan A C K
I Rank



P Dharani Jade
II Rank



Chandana R
III Rank



Srinivas Reddy P
I Rank

M Tech in Computer Applications in Industrial Drives

Department of Mechanical Engineering

UG - Programme



Tanushree B Patil
1MS16ME164
I Rank



Akshay Kumar V
1MS16ME015
II Rank



Rishabh Rajiv
1MS16ME 124
III Rank



Namitha C
1MS16ME080
IV Rank

Department of Civil Engineering
UG - Programme



Ashutosh
1MS16CV018
9.86%



Vinay Kumar Kalal
1MS16CV107
9.43%



Sharath Kumar M T
1MS16CV089
8.96%



Mutturaj K D
1MS17CV415
8.92%

Post Graduate Student



Vasavi G S
1MS18CSE30
9.62%

Department of Electronics & Communication

UG - Programme



Bharanidharan D
1MS16EC025
I Rank



Lohith N V
1MS16EC054
II Rank



Sai Shuba
1MS16EC134
III Rank



Utsav Vasudevan
1MS16EC114
IV Rank

PG Course: IV M.Tech
(Digital Electronics and Communication)



Priyadarshini L
1MS18LEC16
I Rank

PG Course: IV M.Tech
(VLSI Design and Embedded Systems)



Nisarga R
1MS18LVS09
I Rank

Department of Chemical Engineering

UG - Programme



Lakshmi V Sasidharan
1MS16CH022
I Rank



Sakshi Sinha
1MS16CH043
II Rank



Ananya Srivastava
1MS16CH006
III Rank

Department of Industrial Engineering and Management

UG - Programme

(M.TECH)



Shwetha. S
1MS16IM046
I Rank



Pooja. B.B
1MS16IM031
II Rank



Ranjit. R
1MS16IM036
III Rank



Gokul. G
1MS18MIE03
I Rank

Department of Information Science and Engineering

UG - Programme



Sneha V
1MS16IS098
I Rank



Vybhav Jain
1MS16IS144
II Rank



Shrinidhi K R
1MS16IS094
III Rank



Swathi S Hathwar
1MS16IS104
IV Rank

Department of Medical Electronics Engineering

PG (Software Engineering)

UG - Programme



Sameer Sitoula
1MS18SSE18
I Rank



Prajna G Hardikar
I Rank



T H Greeshma
II Rank



Meghana Narayanan Chelur
III Rank

Department of Computer Science and Engineering

UG Programme



Yashashree S
I Rank



Ritu Pravakar
II Rank



**Amogh Sreedhar
Inamdar**
III Rank



**Shaguftha Zuveria
Kottur**
IV Rank

M.Tech in Computer Science and Engineering

M. Tech in Computer Network Engineering



Sheeba
I Rank



Sindhu N

Department of Electronics and Instrumentation Engineering

UG - Programme



Ninad P Kashyap
1MS16EI034
I Rank



Nikitha K
1MS16EI032
II Rank



Arunabha Mitra
1MS16EI060
III RANK

Department of Telecommunication Engineering

UG - Programme

PG Rank holders August 2020



Panchami Prabhu
1MS16TE029
I Rank



Shreyas S Nayak
1MS16TE050
II Rank



Sreepriya S
1MS16TE054
III Rank



Anusha Hiremath
1MS18LDC03
I Rank

Department of Management Studies



Sharanya.G
1MY18MBA45
I Rank



Sarika Pundir
1MS18MBA46
II Rank



Supreetha.H
1MS18MBA55
III Rank



Pranathi.S.N
1MS18MBA36
IV Rank

Highlights of Ramaiah Institute of Technology

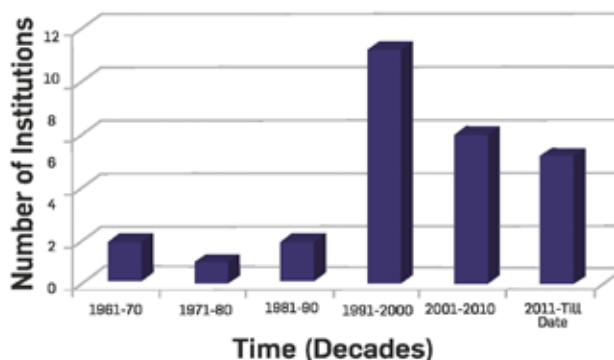
- Strategically located in the heart of Bengaluru City offering excellent connectivity and convenience.
- Proven track record spanning 58 years, in Engineering Education.
- Outstanding placement record up to 90-95% accomplished year on year.
- Faculty-Student the ratio of 1:15 among the best in the industry.
- 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 Educational Institution under Gokula Education Foundation (GEF)

Ramaiah Institute of Technology
 Ramaiah Polytechnic
 Ramaiah College of Arts, Science & Commerce
 Ramaiah Composite Pre-University College
 Ramaiah Vidyarniketan
 Ramaiah College of Education
 Ramaiah Institute of Management
 Ramaiah College of Law
 Ramaiah High School
 Ramaiah Medical College
 Ramaiah Institute of Physical Medicine & Rehabilitation
 (Physiotherapy)
 Ramaiah International Medical School
 Ramaiah Institute of Nursing Education & Research
 Ramaiah INDIC Speciality Ayurveda

Ramaiah Medical College Hospital
 Ramaiah Memorial Hospital
 Ramaiah Advanced Testing Laboratory
 Ramaiah Clinical Research Centre
 Ramaiah Harsha Hospital
 Ramaiah Leena Hospital
 Ramaiah Neha Prakash Hospital
 Ramaiah Clinic
 Ramaiah Public Policy Center
 Ramaiah Innovation Centre for Healthcare Technologies
 Ramaiah Sunrise Ayurveda Center, Penang, Malaysia
 Ramaiah Officers IAS Academy
 Ramaiah Quality Assurance Cell
 Ramaiah International Centre for Public Health Innovation
 Ramaiah University of Applied Sciences

Growth of the GEF family of Institutions



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

RAMAIAH INSTITUTE OF TECHNOLOGY

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