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## Sampige

### A quarterly News Bulletin

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#### Contents

**Departmental Activities**

**Sports**

**EDC**

**Extra Curricular Activities**

**Alumni Association**

**Placement**

**New Appointments**

#### From the Editorial Board



Greetings,

It gives me a great delight to connect with all of you with another issue of Sampige the quarterly News Bulletin of Ramaiah Institute of Technology (RIT). I earnestly thank the entire department Heads for providing the information of the departmental activities and accomplishments of faculty and staff in an ideal opportunity for the arrival of this release.

As we have been discoursing, RIT is a center point of different activities and Sampige envisages carrying a depiction of all to you.

The sum total of what endeavors have been saved to gather data about the activities of the institution successfully since we consider this News Bulletin as a powerful communication tool. E-Sampige is also available on our website for information to all our stakeholders.

I wish all our personnel, staff, and different stakeholders an exceptionally cheerful Ugadi celebration and a prosperous new year.

Best wishes,  
**Dr. N. V. R. Naidu**



Friends,

We are glad to introduce before you another issue of our quarterly News Bulletin Sampige. We thank every one of our department Heads towards their pro-active response in making current issue of News Bulletin a well-documented one. Obviously, all the consideration has been taken at all levels in consolidating the information given by the departments in this new issue. We invite more and more inputs and suggestions towards making Sampige a convincing piece that we all anticipate in the months ahead. The

editorial board Sampige wishes every one of its readers a cheerful Ugadi celebration and a prosperous new year.

Any suggestions or criticism on the News Bulletin would be always most welcome

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.

## Congratulations!



- Team 'Stier Racing', with Sri. M. R. Seetharam, Vice-Chairman, Sri. Ramaprasad, CE, Sri. Ramachandra, CFO, Dr. N. V. R. Naidu, Principal. A team of 30 enthusiastic multidisciplinary students of RIT taking part in 5<sup>th</sup> Formula Green Competition, 2020, organized by Indian Society of New Era Engineers held at Kari Motors Speedway at Coimbatore on 10<sup>th</sup> to 14<sup>th</sup> Feb 2020, and crowned Overall Champions.

## KANNADA RAJYOTSAVA



• Kannada Rajyotsava was celebrated on the 14<sup>th</sup> of November 2019. The events conducted during this Rajyotsava, were well received and appreciated by the college faculty and students. Chief-guest of the function was Shri. Gangavathi Pranesh (Gangavathi Beechi) an artist from Gangavathi, Karnataka.



## REPUBLIC DAY



• Celebrated 71<sup>st</sup> Republic Day function on 26<sup>th</sup> January 2020 - All Nine GEF Institutions participated in the Republic Day function. Flag hoisted by Dr. V Shyam Kishore, Principal, Ramaiah College of Law and the program witnessed by Sri. Ramaprasad, Chief-Executive, GEF (Engg. & GS), Sri. G Ramachandra, Chief of Finance, GEF, Dr. NVR Naidu, Principal, RIT, Dr. C. G. Puttappa, Vice-Principal, Dr. Archana, Registrar Academic and all the Principals of GEF Institutions.

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- Memorandum of Understanding is signed between Ramaiah Institute of Technology, Bengaluru, and Yaskawa India Private Limited, Bengaluru on 8<sup>th</sup> November 2019. It is a Japanese based MNC pioneered in the field of drives in motion control. The objective of the association is to strengthen the knowledge in the area of power electronics and drives. Students will be allowed to undergo internships and projects.
- Memorandum of Understanding is signed between Ramaiah Institute of Technology, Bengaluru, and LeePe Drive Private Limited, Hosur on 15<sup>th</sup> September 2019. It is a manufacturing industry in the Electric vehicle (EV) Li-Ion Battery domain. The objective is to enhance the curriculum by arranging lecture series, industrial visits for UG, and PG students. They will be allowed to access the Leap's Lab for testing and EV related projects.
- Electrical and Electronics Engineering department and Electronics and Instrumentation engineering organized a Four-day Faculty Development Programme on 'Electrical Vehicle Technology- Opportunities and Challenges', from 17<sup>th</sup> to 21<sup>st</sup> January 2020. The FDP focused on power electronic components, Integrated chargers, and wireless power transfer systems of EVs. The experts were from IISc, Collins Aerospace, Blooms Energy, and PRDC.
- The department students organized inter-class cultural competition 'ELECTRA-20', on 3<sup>rd</sup> March 2020. Each class team has given 45 Minutes of duration in which they have to perform one skit, singing, mimicry, and dance. The overall championship was won by the 2016 batch of E&E.

### Paper Publication in International/National Journal:

- **C S S Babu and Premila Manohar** - 'Studies on Effect of Corrosion for the Selection of Material of Self-Compensated Capacitive Type Liquid Level Sensor', Applied Mechanics and Materials, Vol. 895, pp. 230-236, 2019.



### Paper Publication in International/National Conference:

- **Vinayak V Rao, Ramakrishna Murthy K, Pradipkumar Dixit, Harikrishna.R, Ananad M, R T Prajwal Kumar, Raghavendra K M, Sanjay I S** - 'Development and Performance Evaluation of Micro Magnesium Oxide Filled Silicone Rubber for High voltage Insulation', 2<sup>nd</sup> International Conference on Power Engineering and Control (PECCON-19), VIT Chennai, December 12-14-2019, Tamilnadu.
- **Ramakrishna Murthy K, Vinayak V Rao, Pradipkumar Dixit, Harikrishna R, Tarun Anand, Chandrakala A, Prajwal Chowdary, Shubham Kumar** - 'Performance Evaluation of Naturally Aged Silicone Rubber Polymeric Insulating Specimen with Nano TiO<sub>2</sub> filled Epoxy Coating', 2<sup>nd</sup> International Conference on Power Engineering and Control (PECCON-19), VIT Chennai, December 12-14-2019, Tamilnadu.
- **Swathi H, Likith Kumar M V, Anil Kumar D R** - 'Development of An Algorithm for Active Rollover Mitigation of a Sports Utility Vehicle (SUV)', 4<sup>th</sup> International and 19<sup>th</sup> National Conference on Machines and Mechanisms organized by IIT Mandi, during 5-7 December 2019.
- **Victor George, Pradipkumar Dixit, Ayushi Priya, Deeksha Singh, Tanya Swaroop, Nikita D** - 'Data Communication between DC Microgrids for Real-Time Converter Control', International Conference on Computing, Power and Communication Technologies (GUCON 2019), September 27-28, 2019, New Delhi.
- **Victor George, Deepak B, Shubham Kumar, Shobhit Kumar, Sindhu Reddy, Ashok S** - 'Design Aspects of the Future IoT Based On-Road Charging of Electric Vehicles', International Conference on Computing, Power and Communication Technologies (GUCON 2019), September 27-28, 2019, New Delhi.

### Guest Lectures delivered by the department faculty:

- **Dr. Premila Manohar** - Professor and Head, delivered lecture on 'Introduction to HVDC systems Operation and Control', on 5<sup>th</sup> December 2019, at PSTI, Bengaluru.
- **Smt Kusumika K Dutta** - Assistant Professor, delivered lecture on 'Introduction to Deep Learning and its Application', on 19<sup>th</sup> October 2019, at HKBK College of Engineering, Bengaluru.

- **Dr. Premila Manohar, Prof & HOD** - delivered a talk 'HVDC Systems –Recent trends' on 8<sup>th</sup> January 2020, at Power System Training Institute, Bengaluru.
- **Mr. Ramakrishna Murthy K, Assistant Professor** - delivered a Technical Talk on 'Transformers', on 19<sup>th</sup> February 2020, at M S Ramaiah Polytechnic, Bengaluru.
- **Mr. Vinayak V Rao, Assistant Professor** - delivered a Technical Talk on 'Power Plant Effluents-impacts and uses', on 25<sup>th</sup> February 2020, at M S Ramaiah Polytechnic, Bengaluru.

### Guest Lectures arranged in the department

- Organized a talk on 'Advances in Robotics-Technologies, Carriers and Entrepreneurship opportunities', by Adithya Marathe, CEO, NUGENIX on 10<sup>th</sup> March 2020.
- The department in association with the IEEE-PES student chapter organized a talk on 'Pulse Power Product for Strategic Requirements', by **Dr. Z H Solarpurwala**, Managing Director, Zeonics Systech Defense and Aerospace Engineers Pvt.Ltd, Bengaluru on 26<sup>th</sup> February 2020.
- Hands on training session was organized on 'DSP applications on MATLAB', by **Mr. Parful and Miss. Naini** from Mathworks for 6<sup>th</sup> sem students on 11<sup>th</sup> February 2020.
- Organized a guest lecture on 'New Product Development', by **Sri. Prasad Ranga**, on 8<sup>th</sup> February 2020.
- The department in association with the IEEE-PES student chapter organized a talk on 'IEC 61850 based Digital Substation', by **Dr. Sarasij Das**, Assistant Professor, IISc, Bengaluru on 4<sup>th</sup> December 2019.

### Industrial Visits: UG



- Department has organized an industrial visit for students of V semester, Polymeric Division, BHEL, Bengaluru on 16<sup>th</sup> and 17<sup>th</sup> November 2019.



- Students of I semester M. Tech (CAID) visited UCAM Pvt. Ltd. on 14<sup>th</sup> November 2019.



- M. Tech I semester visited LeeP eDrive Ltd. Hosur on 16<sup>th</sup> November, 2019.

#### Student Achievements:

- Shantanu D, Prateek K, Neeraj Y** - Himon K and Avin K of 5<sup>th</sup> Semester were part of the RIT Formula Car race Team STEIR, which won 1<sup>st</sup> in Business plan, Skidpad and Endurance events. The team won overall championship in 5<sup>th</sup> Formula Green event held in February, 2020 organized by Indian Society of New Era Engineers at Kari Motor Speed way, Coimbatore. They were mentored by Dr. Chandrashekhar Badachi, Associate Professor, EE department.

## DEPARTMENT OF MECHANICAL ENGINEERING

#### Publication in (National/International) Journals:

- Vaishnavi Kannur, Nikhil Anil Sivadas, AakarshNambiar, Raywanth Koushik, Aruna**

**Kumar P C** - 'Comparative study of alternative materials for impact Attenuators', International Journal of Mechanical and Production Engineering Research and Development, ISSN (P): 2249-6890; Vol. 9, Special Issue, Dec 2019,96-105.

- Balasubramanya H S, P L Srinivasa Murthy, Mohammad Zuhaib Khan, Nihal Jaleel** - 'Characterization of ceramic Particle reinforced aluminum metal Matrix composites – a critical review', International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Issue 11, November 2019, pp. 168-176.
- Pavan Kumar M V, Balasubramanya H S, Vishnu. E, Sachin Umesh B** - 'Shape optimization of turbine ngv by Using cfd computational tool', International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Issue 12, December 2019, pp. 122-128.

#### Publication in (National/International) Conferences:

- Ashok Kumar K** - 'Studies on the feasibility of adsoption cooling technologies-A Review', International Conference on Advanced Trends in Mechanical and Aerospace Engineering, Dayananda Sagar University, Bengaluru, November 7-9, 2019.
- Vinay Kumar Anil Dalal, Jyothilakshmi R** - 'Extraction, Synthesis, characterization of mechanical integrity of nano cellulose composites', 2<sup>nd</sup> International Mechanical Engineering Congress-2019, National Institute of Technology, Tiruchirapalli, Tamil Nadu, 29<sup>th</sup> November-1<sup>st</sup> December 2019.
- Sridhar B. S** - 'Synthesis and characterization of carbon nanotube reinforced polymer brake liner material', International Conference on Advanced Trends in Mechanical and Aerospace Engineering, Dayananda Sagar University, Bengaluru, November 7-9-2019.
- Bijayalakshmi Das** - 'Analysis and simulation of different empennage configurations for an aircraft', International Conference on Advanced Trends in Mechanical and Aerospace Engineering, DayanandaSagar University, Bengaluru, November 7-9-2019.

- **B. P. Harichandra** - 'Impact of Social media and E-gadgets on human intelligence', International Conference on Social media and Intelligence, Karnataka College of Commerce and Science, Bengaluru, 12<sup>th</sup> March 2020.
- **B. P. Hari Chandra**, Associate Professor, Dept. of Mechanical Engineering has Published an encyclopaedia chapter titled "Analysis of the Indian Traditional LohaShodhana Process for Biocompatibility" in the Encyclopaedia of Renewable and Sustainable Materials, 1, January 2020.

#### Publication in (National/International) Journals:

- **P. B. Nagaraj, Gururaj Lalagi, VinayakTalugeri, Loksha K** – 'Experimental Investigation and Comparison of CI engine Performance with different proportions of Fuel additives', International Journal of Mechanical and Production Engineering Research and Development, ISSN (P): 2249-8001; Vol. 10, Issue, March 2020,759-766.
- **Smrithi S P, Nagaraju Kottam, Arpitha V, Archana Narula, Anilkumar G N, K. R. V. Subramanian** - 'Tungsten oxide modified with carbon nanodots: Integrating adsorptive and photocatalytic functionalities for water remediation', Journal of Science: Advanced materials and devices (Elsevier) Volume 5, Issue 1, March 2020, Pages 73-83, <https://doi.org/10.1016/j.jsamd.2020.02.005>.
- **Ashok Kumar K, N Kaplan** - 'Studies on the feasibility of adsorption cooling technologies', Journal of Physics: Conference Series,1473 (2020) 012050, DOI:10.1088/1742-6596/1473/1/012050.
- **Paramesh Chamble, Mr, Bharath M R, Mr, Loksha K, Mr, Christopher Ezhil Singh Sreedharan** - 'Machine Tool Vibration on Dimensional Accuracy and Surface Roughness during Milling Operation of Al6082 with Indexable Carbide Inserts', Journal of Applied Research and Technology, Volume 18, No.1, January 2020.
- **Shreyas Ramesh, Anurag S. V, Tejas J. G, Shashank P, Bharath M R** - 'Effect of drilling parameters on Delamination of Kelvar laminate', Materials Today: Proceedings 22(2020) 2074-2080.

#### Faculty who obtained Ph.D. degree:



**Balasubramanya H. S** has been awarded Ph.D. degree for the work 'Studies on Abrasive wear and Modeling' from VTU Belagavi in the year 2020, under the guidance of Dr. J. Sharana Basavaraja, Professor, department of Mechanical Engineering, B.M.S. College of Engineering, Bengaluru and Co-Supervisor Dr. S Srinivas, Professor, department of Mechanical Engineering, B.M.S. College of Engineering, Bengaluru.



**G. V. Kulakarni** has been awarded Ph.D. degree for the work -'Studies on tribological behavior of solid particle filled FRP composites' from VTU Belagavi in the year 2020, under the guidance of Dr. M R Ramesh, Associate Professor, DME, NITK, Suratkal, Mangalore and Co-Supervisor Dr. S Rajagopal, Scientist-G, PD, R-2ADE, DRDO, Bengaluru.



**Hemavathy S** has been awarded Ph.D. degree for the work-'Studies on retrogression and reaging of Aluminium-Zinc-Magnesium alloys' from VTU Belagavi in the year 2020, under the guidance of Dr. C.N. Chandrappa, Former HOD, Dept. of Mechanical Engg, Acharya Institute of Technology, Bengaluru.

#### DEPARTMENT OF CIVIL ENGINEERING





- **Railway Station Site Visit:** Visit was organized for the V Sem. students on 25<sup>th</sup>, 26<sup>th</sup> and 27<sup>th</sup> October 2019, to help them to understand the practical operations of Railways. namely Switch, Crossing Operations, Turnouts, etc. Students also saw types of rails, sleepers, fishplates combinations, automated switch point of the railway crossing. The site visit was successful with the support of the staff of the Poway Training Centre, Bengaluru Cantonment.



- **Water Treatment Plant Tore kadanahalli Site Visit:** Students witnessed the working and operation of a treatment plant using conventional technology and updated technology for treating water. The water is pumped 1500 feet up gradient from TK Halli to Bengaluru which is Asia's biggest water Pumping exercise. Various units like Aeration, Sedimentation, Filtration, Chlorination, underground reservoir, overhead tanks, the functioning of different types of valves, etc., and its field implementation was appreciated by the student group.



- **Wastewater Treatment Plant Mailasandra Site Visit:** Wastewater Treatment Plant visit was organized for V semester students on 6<sup>th</sup> December 2019. The plant has a capacity of 75 MLD. The operation and maintenance of various units were

witnessed by the students. The units which are present in the plant are, Coarse Screens, Grit Chambers, Extended Aeration process, Settling tanks, and Sludge Drying Beds. From theory to the practice of wastewater treatment and its different dimensions were very useful to students for a better understanding of the subject.



- Students in the Survey Camp interacting with our Chairman, Dr. M R Jayaram (Chairman, GEF) and Dr. C G Puttappa (Vice Principal, RIT). Department of Civil Engineering of RIT conducted Survey Camp for 6<sup>th</sup>-Semester students successfully from 17<sup>th</sup> to 22<sup>nd</sup> February 2020 which was a part of the curriculum.

#### Publications in National/International Journals:

- **Basavana Gowda G. M, Harsha G. M and Govindaraju L** - 'Site Specific Seismic Response Analysis of Metro Rail Bridge', International Journal of Civil Engineering and Technology, 10(12), pp.505-530, 2019.
- **H U Raghavendra** - 'Studies on Uranium Hydrogeochemistry in Kamalavathi River Basin', Gulbarga and Yadgir Districts, Karnataka', Journal of the Geological Society of India, Vol.94, pp.605-610, December 2019.
- **Nagashree B, Mourougane R, R Hari Krishna** - 'Influence of Albite Activator in Geopolymerization of Slag Wastes from Iron and Aluminum Industry', International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075 (Online), Vol.9, Issue-4, Page No. 2326-2329, February 2020.



### Paper presentation in National/International Conferences:

- **Prabhakara, R., Nambiyanna, B., Nakul, R., & Ganesh, B.** - 'Analysis of Rotation Capacity of RC Beams Over Formation of Plastic Hinges', Advances in Structures, Systems and Materials, Springer, Singapore.[International Conference on Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM-2019) at Nitte Meenakshi Institute of Technology, Bengaluru, India, July 2019.
- **Nambiyanna, B., Salman, M. Y., & Prabhakara, R.** – 'Analytical Investigation on High and Low Seismic Response of Zero Liquid Discharge Steel Structure', In Advances in Computer Methods and Geomechanics (pp. 419-428). Springer, Singapore. [Symposium of the International Association for Computer Methods and Advances in Geomechanics (IACMAG) on March 5-7, 2019 at IIT Gandhinagar, India].
- **B. Suguna. Rao, Vishwas B. Laxmeshwar, Dr. Srikanth. M. Naik-** 'Predictive Analysis of Shear Strength of Recycled Aggregate Concrete', 2<sup>nd</sup> ASCE India Conference, Eiffel Hall, Novotel Kolkata Hotel & Residences, 4<sup>th</sup> March 2020.

### Guest Lecture delivered by the faculty:

- **Dr. Umadevi B, Associate Professor** - 'Solid Waste Management', students of PG Landscape, School of Architecture, RIT on 18-11-2019.
- **Nandeesh M S** - 'Skewed Building Modeling' in a two-week workshop on "Skill Enhancement using "ETABS Software" application in Civil Engineering, Department of Civil Engineering, BMS College of Engineering, Bengaluru, Jan 29<sup>th</sup> to February 13<sup>th</sup>, 2020.

### Achievements, Awards/Prizes by Students:

- Totally ten prizes were bagged in events like debate, drawing, etc., by civil students in the Technical Fest held at NITTE Meenakshi Institute of Technology and R V College of Engineering.

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



- MHRD-IIC RIT Hackathon prelims was organized jointly with Department of CSE and ISE on 1<sup>st</sup> December 2019.



- IEEE Bengaluru Section organized a workshop titled "IEEE SPS Winter School on Biomedical Signal and Image Processing", during 12<sup>th</sup> – 14<sup>th</sup> November 2019, in association with IEEE Signal Processing Society, RIT Student Chapter.



- Industrial visits: 5<sup>th</sup> Semester B.E students visited Ace Micromatics, Peenya Industrial area, Bengaluru. This visit aimed at giving an insight into electronic automation and entrepreneurship development.



- An industrial visit was organized for 5<sup>th</sup> Semester B.E students to Gallant Electronic Controls, KIADB Hardware Park, Mahadeva Kodigehalli, Bengaluru to understand the manufacturing of power supplies.
- An industrial visit was organized for VI Semester students in order to give an insight to Telecommunication Technology. Fifty students from the department visited Indian Telephone Industries Ltd, Dooravani Nagar, Bengaluru on 20-02-2020.
- Two day hands-on workshop titled "Building Connected Devices" was organized from 28-02-2020 to 29-02-2020 in collaboration with Li2 Technologies Pvt. Ltd.
- Competition on "Smart India Hackathon (SIH) – Hardware Edition 2020" was organized on 18-01-2020.



- One day Faculty Training Program on "Deep Learning and NVIDIA GPU" was organized on 16-01-2020.
- Six day workshop titled "5G Communication Networks and its Future Perspective" was organized jointly with Department of Electronics and Telecommunication Engineering from 06-01-2020 to 11-01-2020.



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

- **Senthilkumar Dhanasekaran, Anusha S** - 'Cooperative Diversity in Secondary Systems: Efficient Relaying Protocol for Cognitive Radio', Wireless Personal Communications, Springer, vol. 109, no. 2, pp.1419 – 1428, November 2019.
- **Shreyas S, Simhadri Govindappa, C. G. Raghavendra, Vinayak Shastri, Yathin Patil** - 'Categorization of Silkworm based on Chitin Glands using Image Processing', International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278 – 3075, Vol. 9, no.2, pp. 638 – 641, December 2019.
- **Ayush K Sahai, Flory Francis** - 'Detection of Automobile Theft and Engine Locking using Arduino', International Journal of Advance Research and Innovative Ideas in Education, ISSN: 2395 – 4396, Vol. 5, no. 5, pp. 2395 – 2396, 2019.
- **Ashwini Chavan, Senthilkumar Dhanasekaran** – 'Performance Analysis of Cell-center Users in SM-Based Cooperative Spectrum Sharing Systems', IEEE Wireless Communications Letters, Vol. 9, No. 2, (2020), pp 198 – 201.
- **Jagrati Gupta, Dr. Deepali B Koppad** – 'Artificial Neural Network Hardware Implementation: Recent Trends and Applications', Advances in Intelligent Systems and Computing, Springer ISSN 2194 – 5357 ISSN online 2194 – 5365, Vol. 1108, (2020), pp 345 – 354.
- **Kumar M A, Suma P, Suma K V, Venkatesh D** - 'Validation of Novel Single Spot Photoplethysmography Monitoring Device to Measure the Autonomic Status of the Individual',

National Journal of Physiology, Pharmacy and Pharmacology, Vol. 10, No. 1, (2020), pp 64 – 74.

- **Senthilkumar Dhanasekaran, Sushma T R** – 'Performance Analysis of Cell-center Users in NOMA based-Spectrum Sharing Protocol', IEEE Communications Letters, Vol. 24, No. 1, (2020), pp 52 – 56.
- **C G Raghavendra, N. Harsha, Mohan Kumar S, Prashantha H. S** – 'Joint Reduction of PMEPR and Sidelobe in Multicarrier Radar Signals using ZC and SC Method', WSEAS Transactions on Communications, Vol. 19, (2020), pp 9 – 17.

#### Paper Presentation in National / International Conferences:

- **Shreya Srinarasi, Seema Jahgirdar, Charan Renganathan, Mallika H** – 'Comparative Analysis between Recurrent Convolutional and Convolutional Neural Networks for Horizon Detection', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications, RIT, Bengaluru, 25<sup>th</sup> – 26<sup>th</sup> October 2019.
- **H. Mallika, Vishruth Y. S, Venkat Sai Krishna T., Sujay Biradar** - 'Vision Based Automatic Traffic Signalling', 4<sup>th</sup> International Conference on Soft Computing: Theories and Applications, NIT, Patna, India, 27<sup>th</sup> – 29<sup>th</sup> December 2019.
- **Sujan L J L, Vishwanath D Telagadi, Srujan B M J, Vinay Prasad R B, C. G. Raghavendra** - 'Joint Reduction of Sidelobe and PMEPR in Multicarrier Radar Signal', 4<sup>th</sup> International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques ICECCOT-2019, GSSS Institute of Engineering & Technology, Mysuru, 13<sup>th</sup> -14<sup>th</sup> December 2019.
- **C. G. Raghavendra, Nagabhushana K. Bhat, Raghu Srivastha M. P, Dinesh P** – 'An Optimized Approach to Generate Multicarrier Radar Signal using Computationally Efficient Algorithm', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications ICRITCSA-2019, RIT, Bengaluru, 25<sup>th</sup> – 26<sup>th</sup> October 2019.
- **Shreyas S, Simhadri Govindappa, C.G. Raghavendra, Vinayak U Shastri, Yathin Patil, Mohan Kumar** – 'Categorization of Silkworm

based on Chitin Glands using Image Processing', 3<sup>rd</sup> International Conference on Data Engineering and Communication Systems ICDECS-2019, RNS Institute of Technology, Bengaluru, Proceedings of ICDECS-2019, ISBN: 938847854-1, 19<sup>th</sup> December 2019.

- **Suma K V, Sanjana Kale, Ranjana Raghuram, Swathi Hiremath, Suhas Suresh** – 'Seed Quality Analyser and Segregator', TENCON 2019, Cochin, IEEE Kerala Section, 20<sup>th</sup> October 2019.
- **Suma K V, Dr. Venkatesh D, Dr. Arun Kumar, Manjula Suryabhatla, Tejaswini Gowda, Tejashwini** – 'Stress Level Detection using EEG Signals', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications, RIT, 25<sup>th</sup> October 2019.
- **Nithyashree Avala Aravinda Prabhu, Chandashwini M Y, Suma K V, Amruta Chougale, Likhitha C** – 'IoT based Power Monitoring and Theft Detection', ICRITCSA, RIT, 25<sup>th</sup> October 2019.
- **Deepali Koppad, Nirmala Paramanandham** – 'Non-destructive Testing for Cracks in Concrete', Springer International Conference on Communication Systems and Networks (ComNet 2019), MBCET organized in association with University of Dayton, Ohio, 12<sup>th</sup> December 2019.
- **Ksheeraja Raghavan, Sara Mohan George** – 'Child Tracking and Monitoring', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications, RIT, Bengaluru, 25<sup>th</sup> October 2019.

#### Guest Lecture/s - Invited:

- **Dr. Om D Deshmukh**, Senior Director, Data Sciences Innovations & Analytics Solutions - 'Building Scalable Data Science Driven Products', 21-10- 2019.
- **Praveen Kumar G. S**, Director of Engineering, Robotics Multimodal NLP, Samsung R&D - 'Moving from NLP to Multimodal NLP', 18-10-2019.
- **Tarakeshava M. K**, Hardware Verification Engineer, Raiton Semiconductors Pvt. Ltd, Bengaluru - 'Universal Verification Methodologies', 14-12-2019.
- **Srikirti Velaga**, Senior Design Engineer, Advanced Micro Devices Inc. – 'Semiconductor Industry – Careers and Processes', 20-02-2020.



- **Sridutt V Nayak**, Senior Design Engineer, Advanced Micro Devices Inc. – 'MBA admissions to career trajectory', 20-02-2020.
- **Prof. Sitaram Yaji**, Professor, Dept. of E&C, NMIT, Bengaluru – 'Embedded System Software Development – An Industry Perspective', 18-02-2020.
- **Lakshminarasimha C. S**, Associate Solution Architect, KPIT Technologies Limited, Bengaluru – 'AUTOSAR (AUTomotive Open System ARchitecture)', 03-02-2020.

#### Guest Lecture delivered by the department faculty:

- **Flory Francis** – 'Computer Network and Security', Center for Global Leadership Development, Bengaluru, 29-02-2020.
- **Dr. Mamtha Mohan** – 'Wireless Sensor Networks', Akshaya Institute of Technology, Tumakuru, 27-02-2020.
- **Dr. C G Raghavendra** – 'Students Awareness Program', SJM Institute of Technology, Chitradurga, 15-02-2020.
- **Sarala S M** – 'Cryptography and Network Security', Reva University, Bengaluru, 20-02-2020.
- **Shreedarshan K** - 'Cryptography and Network Security', Reva University, Bengaluru, 20-02-2020.
- **Dr. Maya V Karki** – 'Outcome Based Education and NBA Accreditation for Tier-II', VTU TEQIP 1.3 Sponsored five day Faculty Training Program at RYM Engineering College, Bellary, 23-01-2020.

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

- **Shrinath Darur, Sumanth A Sunagi** of 5<sup>th</sup> semester won 2<sup>nd</sup> prize of Rs. 10,000/- in State Level Hardware Hackaton held at Institutions Innovation Council JSSSTU, Mysore on November 1<sup>st</sup> 2019.
- **Dr. C.G. Raghavendra**, Associate Professor won Best Paper Award at 4<sup>th</sup> International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques, ICEECCOT-2019, GSSS Institute of Engineering & Technology, Mysuru, 13<sup>th</sup> – 14<sup>th</sup> December 2019.

- **Dr. C.G. Raghavendra** was Session Chair in 4<sup>th</sup> International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques ICEECCOT-2019, held during 13<sup>th</sup> – 14<sup>th</sup> December 2019 at GSSS Institute of Technology, Mysuru.
- **Dr. Suma K V**, Associate Professor was the Session Chair for Poster Presentation, IEEE SPS Winter School on Biomedical Signal and Image Processing held during 12<sup>th</sup> – 14<sup>th</sup> November 2019 at RIT, Bengaluru.
- **Dr. S Sethu Selvi** – Convener, 'WIE Technodium 2020, RIT', 06-03-2020 to 08-03-2020.
- **Dr. Suma K V** – judge, inter-collegiate technical competition 'Ideathon', 08-03-2020.
- **Manjunath C Lakkannavar** – judge, inter-college project exhibition TECKNO-FEST 2020, Department of Electronics & Communication Engineering, Ramaiah Polytechnic, 29-02-2020.
- **Dr. Suma K V** – Coordinator, 4-week Yoga workshop 'Sthiram and Sukham - wellness for women', 27-01-2020 to 10-03-2020.

#### Funded Project:

- **Dr. Lakshmi S** – 'Developing Food Spoilage Alert for Mid-Day Meal Scheme Centers to Prevent Food Poisoning using Sensors and IOT', FAER, Bengaluru. **Grant: Rs. 5000/-**
- **Dr. C G Raghavendra** – 'Reduction of Sidelobe and PMEPR in Multicarrier Radar Signal', IETE, Bengaluru. **Grant: Rs. 10,000/-**
- **Dr. Suma K V** – 'Quantification of Electromyography (EMG) Signals for Detection of Knee Muscle Functioning in Elderly People', KSCST, Bengaluru. **Grant: Rs. 5000/-**
- **Sara Mohan George** – 'Multipurpose Smart Wheel Chair', FAER, Bengaluru. **Grant: Rs. 5000/-**

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'A good head and good heart are always a formidable combination. But when you add to that a literature tongue or pen, then you have something very special'.

- Nelson Mandela

## DEPARTMENT OF CHEMICAL ENGINEERING



- The workshop on the 'Application of AutoCAD in Process Equipment Design' was organized by the Department of Chemical Engineering & Department of Biotechnology from 20 -25 January, 2020.
- Faculty Development Program on "Downstream Processing of Natural Products: Research & Industrial Applications, Biosafety, GLP and Regulatory Affairs" was organised by the Department of Biotechnology and Department of Chemical Engg. from 6<sup>th</sup>-11<sup>th</sup> January 2020.



- One-day Workshop on "Concepts in Catalysis" On 19th October 2019: The program was inaugurated by Dr. A.B. Halgeri, Director, Poornaprajna Institute of Scientific Research, Bengaluru. Dr. Archana, Prof, and Head welcomed the gathering. Dr. S. Venugopal, Associate Professor, Indian Institute of Science, Bengaluru delivered lectures on concepts in chemical kinetics, fundamentals of heterogeneous catalysis, and chemical reaction engineering principles applied to PEMFC design. In the afternoon session, Dr. Laxmi Narasimhan delivered a talk on a microkinetic application in the industry.

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

- **Dheer A Rambhia, Sravanthi Veluturla, Archana Narula** – 'Synthesis of Biodiesel Fuel Additive from Glycerol Using Cationic Ion Exchange Resin', A Review Journal of Catalyst and Catalysis, 6(3), 1-8, ISSN: 2349-4344, STM Journals.
- **Ch. Mahendra, R R. Sivakiran, K. A. Badarinarayana, Lakshmi Priya, Shivani Raj, and M. Mamatha** – 'Investigation of Bivalve Molluscan Seashells for the removal of Cadmium, Lead and Zinc Metal ions from wastewater streams', Rasayan Journal Chemistry, 13, (2020), 903-914, ISSN: 0974-1496/E-ISSN: 0976-0083, RJCABP.
- **Rajeswari M Kulkarni, Pradima J Britto, Archana Narula, Syed Saqline, Deeksha Anand, C Bhagyalakshmi, R Nidhi Herle** - 'Kinetic Studies on the Synthesis of Fuel Additives from Glycerol using CeO<sub>2</sub>-ZrO<sub>2</sub> Metal Oxide Catalyst', Biofuel Research Journal, 25 (2020) 1100-1108, Doi:10.18331/BRJ2020.7.1.2, BRTeam.
- **Chaitra Srikanth, G M Madhu** - 'Effect of ZTA Concentration on Structural, Thermal, Mechanical and Dielectric Behavior of Novel ZTA-PVA Nanocomposite Films', S N Applied Sciences, 2:422 (2020), Springer Nature.
- **Blessy Baby Mathew, Vinutha Moses, Biju George, Chetan, Dr. Archana** – 'Composites Based on Natural Polymers', Natural Polymers: Derivatives, Blends, and Composites Volume II, 119-156, ISBN: 978-1-53610-426-4, NOVA Science Publishers.

### Paper Presentation in National/International Conference:

- **Jammula Koteswararao, Madhu Gattumane Motappa, Venkatesham Vuppala, Nagaraju Kottam** - 'Photocatalytic Degradation of Congo Red Dye Using Visible Light Active (VLA) Carbon doped Titanium Dioxide Nanocomposite and its Kinetics', 7<sup>th</sup> Nirma University International Conference on Engineering - NUICONE 2019, Institute of Technology Nirma University, Gujarat.

"You cannot change your future, but you can change your habits, and surely your habits will change your future."

- A.P.J. Abdul Kalam

- **Sravanthi V, Afnan Shariff, Akanksha M S, Ananya Srivastav** – 'Transesterification of glycerol to acetins using heterogeneous catalyst', 1<sup>st</sup> International Conference on Life, Chemical and Health Sciences 24<sup>th</sup> to 26<sup>th</sup> October 2019, Department of Life Sciences, Ramaiah College of Arts, Science and Commerce in collaboration with Karnataka Science and Technology Academy (KSTA).
- **Manjunath R, Archana and Shivakiran** - 'Valuation of Waste Sludge Palm Oil as an Effective Feed Stock towards the Production of Biodiesel', 1<sup>st</sup> International Conference on Life, Chemical and Health Sciences, 24<sup>th</sup> to 26<sup>th</sup> October 2019, Department of Life Sciences, Ramaiah College of Arts, Science and Commerce in collaboration with Karnataka Science and Technology Academy (KSTA).
- **Halima R, Archana Narula** – 'Catalytic Activity of Silver Nanoparticles: a critical review', 1<sup>st</sup> International Conference on Life, Chemical and Health Sciences, 24<sup>th</sup> to 26<sup>th</sup> October 2019, Department of Life Sciences, Ramaiah College of Arts, Science and Commerce in collaboration with Karnataka Science and Technology Academy (KSTA).
- **Rupa Ragavan, Dr. Rajeswari M Kulkarni** – 'Biosorption of Nickel Metal Using Sugarcane Bagasse: Batch and Column Studies', 1<sup>st</sup> International Conference on Life, Chemical and Health Sciences, 24<sup>th</sup> to 26<sup>th</sup> October 2019, Department of Life Sciences, Ramaiah College of Arts, Science and Commerce in collaboration with Karnataka Science and Technology Academy (KSTA).
- **Ch. Mahendra, Rajesh Kumar, Divya Mishra, Shreya H, Kruthi H B** – 'A Generalized Equilibrium Based Simulation of Biomass Gasification Using ASPEN PLUS' International Conference on RACE 2020 on the eve of Golden Jubilee Celebration of UCT, OU organized by Department of Chemical Engineering, UCT, OU in association with IChE, HRC held on 8<sup>th</sup> to 9<sup>th</sup> January 2020 at university college of Technology, Osmania University, Hyderabad.
- **Ms. Dilshad Jalnawalla**, International Association of professionals Career College and an NLP (Neuro-Linguistic Programming) Practitioner and Master Practitioner - 'Realize your Potential' under II Ch.E Student Chapter on 21.11.2019.
- **Dr. Archana**, HOD, Department of Chemical Engineering, RIT, Bengaluru – 'Career Opportunities, Competitive Exams, Activity Points' under II Ch.E Student Chapter on 25.10.2019.
- **Mr. P N Santhosh**, Ex IIT, Co-Founder, BYJUs – 'Competitive exams and career development; under ICh.E Student Chapter on 16.10.2019.

#### Achievement's, Awards/Prizes by Students:

- **Dheer Rhambhia, Garvit & Neeraj** participated in "Chemical Charades" organized at Department of Chemical Engineering, R.V College of Engineering on Department Tech Fest – React 2020 on 28<sup>th</sup> February 2020 and won I prize.
- **Adam, Chetan, Anish & Garvit** presented technical Paper in React 2020 Techno-Cultural Fest, organized at Department of Chemical Engineering, R.V College of Engineering on Department on 28<sup>th</sup> February 2020, and won I prize.
- **Anish, Chetan, Dheer Rhambhia, Pratik** - Presented Poster presentation in React 2020 Techno-Cultural Fest, organized at Department of Chemical Engineering, R.V College of Engineering on Department on 28<sup>th</sup> February 2020 and won I prize.
- **Sri Karthikakeshava** participated in "IPL Auction" - Empryreal 2020, organized at Ramaiah Institute of Technology on 17<sup>th</sup> February 2020, and won I prize.
- **Sayan Mukherjee, Anubhav Jain, Varun Singh, Harshit Sharma** - participated in Chemophilia (Quiz) organized at Department of Chemical Engineering, R.V College of Engineering on Department Tech Fest – React 2020 on 28<sup>th</sup> February 2020 and won I prize.
- **Daksh, Aayush, Anmol & Sayan** - participated in "ipl auction" organized at Department of Chemical Engineering, R.V College of Engineering on Department Tech Fest – React 2020 on 28<sup>th</sup> February 2020 and won I prize.
- **Parikshit, Prateek** - participated in SHERLOCK (Quiz) organized at Department of Chemical Engineering, R.V College of Engineering on Department Tech Fest – React 2020 on 28<sup>th</sup> February 2020.

#### Guest Lecture's – Invited:

- **Sri. K.G. Suresh**, General Manager, Front end engineering, Shell Technologies Ltd - 'Petroleum Technology' under ICh.E Student Chapter on 14.12.2019.



### Non-Academic achievements:

- **Nikitha Bopanna** secured 2<sup>nd</sup> Position in AFC Women's Day Football Tournament 2020 held at ST FRANCIS DE SALES COLLEGE, Bengaluru - 100 on 6<sup>th</sup> March 2020.
- **Gourav** Secured 3<sup>rd</sup> Position in Hockey Tournament 2020 held at Indian Institute of Science, Bengaluru on 14<sup>th</sup> February 2020.
- **Nikitha Bopanna** awarded II runner - up at Challengers Cup a Division II extension of Malleshwaram Cup 2019, an Inter-Collegiate Invitational Basketball Championship for Men & Women from January 26<sup>th</sup> to 3<sup>rd</sup> February 2020 at BEAGLES INDOOR BASKETBALL STADIUM.
- **Nikitha Bopanna** secured 2<sup>nd</sup> Runner - up in 14<sup>th</sup> Dr. M.S. Ramaiah Memorial State Level Inter Engineering Colleges Basketball Men & Women tournament 2019-20 from 9<sup>th</sup> to 11<sup>th</sup> September 2019.

### DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT



- **Industrial visit:** M/S. Volvo Constructions Equipment, Bengaluru - 23/10/2019.



- One week Faculty Development Program on "Predictive Analytics – A Gateway to Business Excellence"- 13<sup>th</sup> to 18<sup>th</sup> January 2020.

### Publications in National / International Journals:

- Vivekanand Venkataraman, Syed Usmanulla, Appaiah Sonnappa, Pratiksha Sadashiv, Suhaib Soofi Mohammed and Sundares S. Narayanan - 'Wavelet and multiple linear regression analysis for identifying factors affecting particulate matter PM2.5 in Mumbai City, India', International Journal of Quality and Reliability Management, 2019, Vol. 36, No. 10, 2019 (Scopus Index Q1, SJR :.584)

### Paper presentation in National / International Conference:

- **Dr. M. Shilpa, Dr. G. S. Prakash & Dr. M. R. Shivakumar** - 'A combinatorial approach to optimize the properties of green sand used in casting mould', 2<sup>nd</sup> International Conference on Recent Trends in Metallurgy, Materials Science and Manufacturing – IMME19, Department of Metallurgical and Materials Engineering National Institute of Technology, Tiruchirappalli, during 27<sup>th</sup> - 28<sup>th</sup> December 2019.
- **Dr. Sudheer D, Kulkarni** - 'Productivity Improvement of a Hose Assembly Plant by the Application of an Effective Line Balancing Technique', 2<sup>nd</sup> International Conference on Design, Materials & Manufacture, ICDEM 2019, The National Institute of Technology, Karnataka, Surathkal, 6<sup>th</sup> - 8<sup>th</sup> December 2019.

### Guest Lecture's – Invited:

- **Commander Srikanth Mankal**, IIIE-BC Secretary – 'Production Planning and Control', 04/12/2019.
- **Mr. Madhav Rangaswami**, Intel Corporation, USA - 'Operations Research - An analytical tool for effective decision making', 06-03-2020.
- **Mr. Moumita**, Associate Director, HR, Flipkart, Bengaluru – 'Evolution and future trends in HR practices', 17-02-2020.
- **Mr. Jidhu Mohan**, Lead Research Engineer, AI for Cyber Physical Systems – SIEMENS Technology and Services Pvt. Ltd. – 'The next-gen factory system: Industry 4.0', 08-02-2020.

#### Guest Lecture delivered by the department faculty:

- **Dr. M. Shilpa** – 'Project Management and Network Analysis', Government Ramnarayan Chellaram College of Commerce & Management, Bengaluru, 19-11-2019.

#### Funded Project:

- **Dr. G.S. Prakash & Dr. M. Shilpa** – 'MODROBS (Modernization and Removal of Obsolescence Scheme)', AICTE. **Rs. 8,25,000/-**
- **Dr. R. Shobha** – 'Design, fabrication & characterization of selective catalytic reduction catalyst structure for denox applications', Research Proposal Scheme under VGST. **Rs. 5,00,000/-**
- **Dr. M. Rajesh** – 'Study Analysis and Optimization of workplace design parameters to improve worker efficiency through Taguchi's Orthogonal Array Approach', The Institution of Engineers (India) IEI, 20<sup>th</sup> May 2019. **Rs. 70,000/-**



- Dr. Rajarajeswari S and Mr. Pramod S Sunagar, conducted three day workshop on 'Machine Learning and its Applications' at Sambhram Institute of Technology, Bengaluru from 6<sup>th</sup> to 11<sup>th</sup> Nov 2019.



- Cyber Security in Digital India Hackathon 2019 was held on 15-16 November 2019, organized by Centre of Excellence in Cyber Security, Govt. of Karnataka, Anchor Institution: Indian Institute of Science, Bengaluru, Implementing Institute: Karnataka State Council for Science & Technology, (KSCST), Bengaluru, Knowledge Partner: Virtusa, Event Partner: Ramaiah Institute of Technology.

#### Publications in National / International Journals:

- **Monish Narendra, Veena G S, DivakarHarekal, Jagadish S Kallimani** - Biometric based Attendance Management System using Cloud, International Journal of Advanced Science and Technology, Vol. 29, No. 3, Mar 2020, Special Issue, Scopus Indexed.
- **Annapurna P Patil, MridulTiwary, Greeshma Elachitaya, Mohammed Annan** - 'Practical Significance of GA PartCC in Multi-Label Classification', IEEE TENCON 2019, Kochi Kerala, India, 17-20 Oct, 2019.
- **Annapurna P Patil, Amrita Behera, Prabhuling, Anusha P, Mitali Seth** - 'Speech enabled Visual Question Answering using LSTM and CNN with Real Time Image Capturing for assisting the Visually Impaired', IEEE TENCON 2019, Kochi Kerala, India, 17-20 Oct, 2019
- **Premkumar M K, Parkavi A** - 'Quality Grading of Fruits and Vegetables Using Image Processing Techniques and Machine Learning: A Review', Springer International Conference on Communication Systems and Networks (ComNet2019) 12<sup>th</sup> and 13<sup>th</sup> Dec 2019, Mar Baselios College of Engineering & Technology, Nalanchira, Trivandrum in association with University of Dayton, Ohio.
- **Sini Anna Alex, Anita Kanavalli** – 'Intelligent Computational Techniques for Crops Yield Prediction and Fertilizer Management over Big Data Environment', International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-12, October 2019.
- **Kalyani G, Chaudhari. S** - 'Data Privacy Preservation in MAC Aware Internet of Things with Optimized Key Generation', Journal of King Saud University, Computer and Information Sciences, December 2019.

- **Krishna Jyothi K, Chaudhari. S** - 'A secure cluster - based authentication and key management protocol for machine-type communication in the LTE network', International Journal of Computers and Applications, December 2019.
- **Jagadish S Kallimani, Chandrika C P, Keerthana D, Manoj J Shet, Prasada Hegde, Ajeya S H** - 'Performance Analysis of Open Source OCR', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.
- **Aniket Singh, Zaifa Khan, Chandrika C P, Jagadish S Kallimani** - 'Authorship Identification using supervised learning and n-grams for Hindi Language', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.
- **Abhay Desalli, Anirudh R, NPrajwal Pai, Rajeshwari S B, Jagadish S Kallimani** - 'Rectifying Incorrectly POS - tagged Polysemy Words in Kannada Language for Machine Translation', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.
- **Vybhav Jain, Rajeshwari S B, Jagadish S Kallimani** - 'Emotion Analysis from Human Voice using Various Prosodic Features and Text Analysis', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.
- **Ajeya S H, Keerthana D, Manoj J Shet, Prasada Hegde, Jagadish S Kallimani** - 'Enhancements in Decision Making through Sentiment Analysis of Twitter Data', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.
- **Chandrika C P, Jagadish S Kallimani** - 'Polarity Identification for Handwritten Text in Multilingual Documents Using Open Source OCRs', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.
- **Aniv Chakravarthy, Jagadish S Kallimani** - 'Unsupervised Multi-Document Abstractive Summarization using Recursive Neural Network with

Attention Mechanism', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), Bengaluru 25-26 October 2019.

#### Achievements:

- **Dr. Parkavi A** - 'Compiler Design Course Assessment in Computer Science and Engineering Programme: A case study of innovative Practice', Poster Presentation in ACM Compute 2019, Goa University, Goa during 10-12 Oct, 2019.
- **Dr Annapurna P Patil** - received the 'Excellent Partner-2019' award from Samsung Research Institute Bengaluru, India for implementing AI/ ML related worklets as a part of Samsung PRISM-MSRIT Project Collaboration, on 19<sup>th</sup> Nov 2019.
- **Dr. Parkavi A** - chaired the session for the 2<sup>nd</sup> International conference on Recent innovative trends in Computer science and applications (ICRITCSA-2019) held on 25<sup>th</sup> and 26<sup>th</sup> October 2019, RIT, Bengaluru.
- **Dr. Shilpa Chaudhari** - session chair for International conference on 'Innovative Research in Engineering, Management and Sciences', on 20<sup>th</sup> December 2019 at New Horizon college of Engineering, Bengaluru.
- **Dr J Geetha** - chaired session for the 2<sup>nd</sup> International conference on 'recent innovative trends in Computer science and applications (ICRITCSA-2019)', held on 25<sup>th</sup>-26<sup>th</sup> October 2019, RIT, Bengaluru.
- **Dr. J Sangeetha** - chaired session for the 5<sup>th</sup> IEEE WIE Conference on 'Electrical and Computer Engineering (IEEE WIECON-ECE 2019)', held on 15<sup>th</sup> and 16<sup>th</sup> November 2019, Bengaluru, India.
- **Dr. Jagadish S Kallimani** - chaired session for the 2<sup>nd</sup> International Conference on 'Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019)', held on 25<sup>th</sup>-26<sup>th</sup> October 2019, RIT, Bengaluru.
- **Dr. Jagadish S Kallimani** - Subject Expert to conduct interview for faculty positions in Saptagiri College of Engineering on 29<sup>th</sup> July 2019.





- **Dr. Jagadish S Kallimani** - Reviewer, 4<sup>th</sup> International Conference on 'Computational Systems and Information Technology for Sustainable Solution (CSITSS-2019)', 20-21, December 2019, RVCE, Bengaluru.

#### Guest Talks Delivered by Department Faculty:

- **Mr. Pramod Sunagar** - 'Outcome Based Education and NBA' on Jan 30<sup>th</sup> 2020 at East Point College of Engineering and Technology, Bengaluru.
- **Dr. Jagadish S Kallimani** - 'Outcome Based Education and NBA' on Jan 31<sup>st</sup> 2020 at East Point College of Engineering and Technology, Bengaluru.
- **Mr. Mallegowda M** - 'ARM processor' conducted on 27<sup>th</sup> Dec 2019 to 1<sup>st</sup> Jan 2020 at REVA University, Bengaluru.
- **Dr. Parkavi A and Sini Anna Alex** - delivered a talk in a two day national level workshop on 'Digital pedagogy for effective teaching and learning', conducted on 23-24, November 2019 in JNTUA College of Engineering, Ananthapuram.
- **Dr. Parkavi A** - delivered an invited talk on 'Big data analytics' on 15<sup>th</sup> Nov, 2019 in HKBK college of Engineering, Bengaluru in Student development program.
- **Dr. Parkavi A** - delivered an invited talk on 'Big data analytics for health sciences' on 14<sup>th</sup> Nov, 2019 in Anvesana research symposium, S-Vyasa (deemed to be university), Jigani, Karnataka.
- **Dr. Jagadish S Kallimani** - delivered a talk on 'Implications of Artificial Intelligence in Management Decisions', in Faculty Development Programme on 'Industrial Disruptions and Management Education' on 31<sup>st</sup> July 2019 at RIT.
- **Dr. Mohan Kumar S** - delivered a technical talk on 'Recent trends in mobile computing and Applications' to faculty and students of the Department of Information Science and Engineering, Malnad College of Engineering, Hassan, on November 09<sup>th</sup> 2019.

#### Guest Lectures Arranged:

- **Mr. Avneasha K** - Senior Software Engineer, Azul Technologies, delivered a talk on 'Software engineering usages in real time projects' on 4<sup>th</sup> Mar 2020.

- **Mr. Rejesh Mehta** - Project Manager, IBM, delivered a talk on 'Leading with diversity, Finding an Ikigai', on 27<sup>th</sup> Feb 2020.
- **Mr. Vipin, Harish, Chinmaya and Rahul, SAP** - delivered a talk on 'SAP Cloud Platform', on 10<sup>th</sup> Feb 2020.
- **Mr. Ramesh T K, CEO** - Ace Micromatic, Bengaluru, delivered talk on 'Internship for the students in the area of Machine Learning and Deep Learning' on 4<sup>th</sup> Feb 2020.
- **Mr. Rajagopalan P T** - Quant Trainer, Manhattan Review India, delivered a talk on 'Carrier Guidance to crack study Abroad Exam', on 31<sup>st</sup> Jan 2020.

### DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING



- **Visit to Ramaiah Advance Testing Lab:** The students of V semester visited Ramaiah Advance Testing laboratory to learn about the working of sophisticated analytical instruments which is studied in Scientific Instrumentation Course, on December 2019.



- The department of EIE along with department of EEE has conducted one week workshop on Cyber

Physical Systems from 6<sup>th</sup> - 11<sup>th</sup> January, 2020 in collaboration with Robert Bosch Centre for Cyber Physical Systems, IISc and International Society of Automation (ISA). The topics covered was on Industrial Robotics, Machine learning, connected systems, smart factory, Industrial cyber security.



- The department of EIE along with department of EEE has conducted one week FDP on 'Electric Vehicle Technology Opportunities & Challenges' from 17<sup>th</sup> to 21<sup>st</sup> January 2020.

The FDP was focused on Power electronic systems in Electric Vehicles, design validation, utility grid and Battery Management Systems for the Academician, Industry personal and students.



- **Community service** - The students of IV semester had performed one day community service in ISKCON by serving food to the people.

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

- **S. Elavaar Kuzhali, D. S. Suresh** – 'Collaborative Priors with SVD for Denoising of cDNA Microarray Images', Indian Journal of Science and Technology, Vol 12(37), DOI: 10.17485/ijst/2019/v12i37/147036, ISSN (Print): 0974-6846 ISSN (Online): 0974-5645 (web of science), October 2019.
- **H.S. Niranjana Murthy** – 'A NARX Model to Predict Myocardial Ischemic Beats from ECG Using Features Extracted by ICA and WPD', Journal of Physics:

Conference Series, Vol.1362, ISSN-1742 6596, DOI:10.1088/1742-6596/1362/1/012100, November 2019.

- **J. V. Alamelu, A. Mythili** – 'Examination of Control Parameters for Medical Grade Insulin Pump', International Journal of Engineering and Advanced Technology Vol. 9, pp 19-22, December 2019.
- **Shivaprakash G, D. S. Suresh** – 'Comparison of Power and Latency Optimised 7T SRAM with Fully Differential 10T SRAM bit-cell', International Journal of Control and Automation, Vol. 12, No. 6, pp. 324-328, December 2019.

#### Paper presentation in National / International Conferences:

- **H. S. Niranjana Murthy** – 'Comparison between NAR and NARX Neural Network Models for Detecting Myocardial Ischemic Beats', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications, RIT, 25<sup>th</sup> & 26<sup>th</sup> October 2019.
- **M.D. Nandeesh, M. Meenakshi** – 'Detection of tumor using gabor filter for multimodal images', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications, RIT, 25<sup>th</sup> & 26<sup>th</sup> October 2019.
- **J. V. Alamelu, A. Mythili** - 'Performance Evaluation of LQR method for motor employed in medical grade infusion pump', International conference on Automation, Signal processing, Instrumentation and control, (iCASIC 2020), VIT University, Vellore, 27<sup>th</sup>-28<sup>th</sup> February 2020 .

#### Guest Lecture/s – Invited:

- Prof. Ajay Gupta from Old Dominion University, USA - 'Interaction on Internship & Higher education in abroad university', 12-12-2019.
- Mr. Nayan T.G from Yokogawa, Bengaluru – 'Interaction on Outlook on Industry expectations & latest technology on control and automation', 29-11-2019.
- Mr. Vijayakumar from Mitsubishi electric, Bengaluru- 'Industry Automation', 21-10-2019.
- Mr. Rajashekar, Mr. Sukumaran and Mr. Renukprasada, ISA Bengaluru section – 'Are you

ready- the transformation from an engineer to an engineer professional', 14-02-2020.

#### Guest Lecture delivered by the department faculty:

- Mrs. S. Elavaar Kuzhali, Assistant Professor – 'Patch based denoising techniques', Sri Venkateswara Institute of Science and Technology, Thiruvallur, Chennai, 15-11-2019.

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

- Arundathi S Deshpande, II year student competed and won in VTU level swimming competition for 200mtr Breast stroke, 50mtr Breast stroke, 100mtr Breast stroke. She was Runner up in 50mtr free style, 200mtr individual Medley styles and positioned third place in 50mtr Butterfly stroke.
- Pradyumna Sainath Chavan of 1<sup>st</sup> year participated in state level Basket Ball tournament and the team got Runnerup.
- Dr. H.S. Niranjanamurthy elected as Fellow member of "The Institution of Electronics & Telecommunication Engineers", New Delhi (F-501723).

#### Faculty who obtained Ph.D. Degree:



**M D Nandeesh** has been awarded Ph.D. degree for the work 'Novel Image Fusion Algorithms for Tumor Diagnosis Applications' from VTU Belagavi in year 2020 under the guidance of Dr. M Meenakshi Professor and

Head of department, Electronics and Instrumentation Engineering, Dr AIT, Bengaluru.

'Teach the ignorant as much as you can; society is culpable in not providing a free education for all and it must answer for the night which it produces. If the soul is left in darkness sins will be committed. The guilty one is not he who commits the sin, but he who causes the darkness

- Victor Hugo, Les Miserables

'The highest education is that which does not merely give us information but makes our life in harmony with all existence'.

- Rabindranath Tagore

## DEPARTMENT OF INFORMATION SCIENCE ENGINEERING



- Open Stack Upstream Training on 18<sup>th</sup> October 2019 - Sponsored by AICTE under Margadarshana Scheme: is a program to share knowledge about the different ways of contributing to Open Stack like providing new features, writing documentation, participating in working groups, and so forth. The training is focusing on hands-on practice like the students can use a prepared development environment to learn how to test, prepare and upload new code snippets or documentation for review.



- Department in association with DigitalEd organized a follow up workshop on Mobius software. It was conducted on 18<sup>th</sup> Dec, 2019. Technical team from DigitalEd guided selected faculty of RIT in designing courseware using Mobius Courseware platform.



- In association with IEEE Computational Intelligence Society, Bengaluru Section, Department conducted a week long workshop from 20<sup>th</sup> to 25<sup>th</sup> Jan 2020 on Edge Intelligence and Computing. A panel on discussion was also organized as part of workshop. Eminent educationists and Industrialists were part of events where future of edge intelligence was discussed and questions from audiences were answered. Topics as wide as Machine Learning, Deep Learning, IoT, Data Consistency, security in edge intelligence was part of the workshop.



- In association with Department of Computer Applications, the department conducted Faculty Development Programme on Digital Forensics from 13<sup>th</sup> Jan – 18<sup>th</sup> Jan 2020. This FDP offered practical illustrations that how evidence can be captured from Computers, Laptops, Mobile Phones and other Electronic Gadgets. It also focused on awareness and knowledge of the nature of computer record evidence in respect of the substantial legal and procedural issues in legal proceedings.



- Department in association with Gaia Industry has organized tech talk on Smart Cities and project opportunities on 5<sup>th</sup> Feb 2020. Mr. Bipin Pradeep Kumar, Product and Technology manager and Co-founder of Gaia expounded the vast field of opportunities in Smart Cities Project and offered internship to enthusiastic students who are good at programming and design skills.



- Department in association with Indian School of Business arranged a session on Young leaders Programme on 28<sup>th</sup> Feb 2020. Mr. Yashwant, Sr. Manager Admissions Indian School of Business was the guest of honour. Young Leaders Programme is an initiative of Indian School of Business (ISB) to introduce itself to the students of our institution. The talk was about significance of management studies and how empowering young minds can propel them forward in their career.



- Department has organized an orientation session with Mapmy India on February 13<sup>th</sup>, 2020. The presentation was given by Ms. Sneha Sulegay, Mapmy India, who outlined the importance of students attaining extra skills for better job opportunities, and how Mapmy India can help students in achieving these.



- Department has conducted IEEE CIS Student Chapter Membership Drive on 6<sup>th</sup> Feb, 2020. A

tech talk was organized as part of the event. Mr. Nishanth from tech Machinery talked about app development and opportunities as internees in the organization. Hundreds of students participated in the membership drive.

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

- **Naresh E, Vijaya Kumar B. P and Niranjanamurthy M** - 'Challenges and Issues in Test Process Management', Journal of Computational and Theoretical Nanoscience, Volume-16(9), PP-3744–3747, October 2019.
- **Prashanth Kambli, Amruthalakshmi, Naresh E** - 'Recognition of Handwritten Digits using Convolutional Neural Network and Linear Binary Pattern', International Journal of Innovative Technology and Exploring Engineering, Vol 9(1), 2-Nov-2019.
- **Pruthvi V S, Naresh E, Vijaya Kumar B P** - 'Novel Tool for Analyzing Agriculture Related Documents', IJSTR, Volume - 8(10), PP:2817-2820, October-2019.
- **Ravi C Bhaddurgatte, Vijaya Kumar B P, Kusuma S M** – 'A Cross layer QoS Framework for Heterogeneous IoT environment', International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9 Issue-2, December, 2019
- **Nayana D, Mydhili K Nair** - 'Virtual Machine Consolidation Method with Low Delay and Energy Consumption Parameters', International Journal of Computer Application, October 2019.
- **Anush Kumar, Nihal V. Nayak, Aditya Chandra and Mydhili K. Nair** – 'Study on Unsupervised Statistical Machine Translation for Backtranslation', Recent Advances in Natural Language Processing (RANLP), 2-4 Sep 2019, Bulgaria, Print ISBN 978-954-452-055-7 Online ISBN 978-954-452-056-4, pp. 578-582.
- **Shruthi G, Sangeetha** – 'Design and implementation of crop yield prediction model in agriculture', International Journal of Scientific & Technology Research, Vol 8, Issue 1, (Jan, 2020), pp. 544 – 519.
- **Sujata Joshi, Mydhili K. Nair** – 'Detection of Myocardial Ischemic Events from Echocardiogram using Linear Discriminant Analysis and Multilayer

Perception', International Journal of Innovative Technology and Exploring Engineering, Vol-9 Issue-2, December 2019, PP. 2875 - 2880.

#### Paper presentation in National / International Conferences:

- **A. S. Koushik, B. Jain, N. Menon, D. Lohia, S. Chaudhari and Vijaya kumar B.P** - 'Performance Analysis of BlockChain-based Medical Records Management System,' 2019 4<sup>th</sup> International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bengaluru, India, 2019, pp. 985-989.
- **S R Mani Sekhar, G T Mithun Raj, Siddesh GM, Sunilkumar S Manvi** - 'Protein Class Prediction based on Count Vectorizer and LSTM', 4<sup>th</sup> International Conference - ICEECOT 2019, IEEE, Mysore.
- **Naresh E, Madhuri D Naika, M. Niranjanamurthy and Sahana P Shankar** - 'Functional Testing on Heart Disease Detection using Multilayer Perceptron Technique', International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), October 2019.
- **Vatsala M, Srividhya Ravichandran and Nidhi C Patel** - 'A Survey on Multilingual Code Switching in Social Groups', International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), October 2019.
- **V. Sneha, K. R. Shrinidhi, R. S. Sunitha, Mydhili K. Nair** - 'Collaborative Filtering based Recommender System using Regression and Grey Wolf Optimization Algorithm for Sparse Data', International Conference on Communication and Electronics Systems (ICCES), Feb 2020.

#### Book Chapter:

- **Naresh E, Vijaya Kumar B.P., Ayesha, Shankar S.P.** - 'Impact of Machine Learning in Bioinformatics Research' in book titled Statistical Modelling and Machine Learning Principles for Bioinformatics Techniques, Tools, and Applications, release date: 22-March-2020.
- **C. N. Patil, Naresh E, B. P. Vijay Kumar, Prashanth Kambli** – 'A Survey on Artificial Intelligence Techniques Used in Bio-Metric Systems' in book titled Intelligent Systems - Advances in Biometric

Systems, Soft Computing, Image Processing and Data Analytics, release date - Jan-2020.

- **Dr. Siddesh G M, and Mani Sekhar S** - Book Chapter on 'Nature-inspired Techniques for Data Security in Big data in the book titled Security, Privacy and Forensics issues in Big Data by IGI Global Publishers
- **Dr. Mydhili K Nair** - Book chapter for Springer: Multi-Agent Based Systems in Data Science and its Practical Case Studies.

#### Funded Project:

- **Dr. Vijaya kumar B P**, Professor and Head received AICTE sponsored research project Rs. 9 Lakhs sanctioned as Principal Investigator on January 2020 for the work proposal titled "Anomaly Detection using Machine Intelligence Techniques for Mobile and Computer Networks"

#### Achievement/s, Awards/Prizes by Faculty:

- **Dr. B P Vijaya Kumar** - Recognition award as Bystander Responder Champion for his contribution in Heart Rescue India – October 2019.
- **Shashidhara H S** - Apple Certified Trainer for iOS App development using Swift, October 2019.

#### Achievement/s, Awards/Prizes by Students:

- **Hemant Joshi, Aditya Gupta, Jay Sinha and Vallabh Chugh** – won Game Oasis Hack, Prize Money: \$500, 5<sup>th</sup> -6<sup>th</sup> Oct 2019.
- **Abhinav Koul, Piyush Mehta** – won Runners Up in HUL BFS Hackathon, Hindustan Unilever Office, and Prize money -30k.
- **Fawaz Hussain, Abhay, Hemanth K** – won 3<sup>rd</sup> prize in ISKCON Hackathon, 12<sup>th</sup> October, 2019.
- **Rohit P N, Nimish Bongale, Raghav Maheshwari, R Anirudh, Tanisha Sabherwal** won Manipal Hackathon, 11<sup>th</sup> October. 2019. Best in the category and prize money was Rs. 20k.
- **Vishal Chavan** – won first position in One Act play, 19<sup>th</sup> October.
- **Ayush Ujjwal, Aman Bhatnagar** - first runner up in Hashcode 2019 on 26<sup>th</sup> & 27<sup>th</sup> October, 2019.
- **Vishal Chavan** – won 2<sup>nd</sup> Place in Theater Event on 15<sup>th</sup> November 2019 at PES University ECC Campus.

- **Nimish Bongale, Pooja Lokesh, Raghav Maheswari, Rohit P N** – won 2<sup>nd</sup> place at Smart Aurangabad Hackathon. Govt college of Engineering, Aurangabad.
- **Hemant Joshi, Karthik** – were semifinalists of Imagine Cup to be held at Singapore and won prize money of \$2500.

### DEPARTMENT OF MEDICAL ELECTRONICS

- A one-week Faculty Development Program, 'Nonlinear Bio-signal Processing' was organized by the Department of ML, RIT from 06-11 Jan 2020.

#### Publications in National / International Journals:

- **R Rajanna, N Sriraam, P R Vittal and U Arun** - 'Performance Evaluation of Woven Conductive Dry Textile Electrodes for Continuous ECG Signals Acquisition', in IEEE Sensors Journal, vol.20, no.3, pp.1573-1581, Feb1, 2020, DOI: 10.1109/JSEN.2019.2946058.
- **H S Sanjay, Basavaraj V Hiremath, B S Prithvi and P A Dinesh** - 'Machine learning-based assessment of auditory threshold perception in human beings', at SN Applied Sciences, Springer Nature, Volume 2, Issue 2, DOI 10.1007/s42452-019-1929-7, Jan 2020, Article No-147.
- **S Raghu, Natarajan Sriraam, YasinTemel, Shyam Vasudeva Rao, Pieter L Kubben** - 'EEG based multi-class seizure type classification using convolutional neural network and transfer learning', Neural Networks, Volume 124, 2020, Pages 202-212, ISSN 0893-6080.
- **S Raghu, Natarajan Sriraam, Erik D Gommer, Danny M W Hilkman, YasinTemel, Shyam Vasudeva Rao, Alangar Satyaranjandas Hegde, Pieter L Kubben** - 'Cross-database evaluation of EEG based epileptic seizures detection is driven by adaptive median feature baseline correction', Clinical Neurophysiology, 2020.
- **Usha N, Sriraam N, Kavya N, Hiremath B Pujar A K Ravi P Jain A, Venkatraman B, and Menaka M** – 'Effect of GLCM Texture Features on the Medio-Lateral Oblique (MLO) View of Digital Mammograms for Breast Cancer Detection', International Journal



of Biomedical and Clinical Engineering (IJBCE), 9(2), 25-44. 2020,

- **Sriraam N, Tejaswini S, and Chavan A A** – 'Development of Portable Medical Electronic Device for Infant Cry Recognition: A Primitive Experimental Study. In I. Management Association (Ed.), Data Analytics in Medicine: Concepts, Methodologies, Tools, and Applications', (pp. 288-297). Hershey, PA: IGI Global. DOI:10.4018/978-1-7998-1204-3.ch015. 2020.

#### Paper presentation in National /International Conferences:

- **Shekar R, Sriraam N, Vittal PR, Arun U** - 'A Wearable Wrist-Based Pulse Oximetry for Monitoring Cardiac Activities', - A Pilot Study, Bindhu V, Chen J, Tavares J. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol. 637, pp.325-333, Springer, Singapore.
- **Kavya N, et al.** - 'Feature Selection Using Neighbourhood Component Analysis with Support Vector Machine for Classification of Breast Mammograms', In: Bindhu V., Chen J., Tavares J. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol. 637, pp.253-260, Springer, Singapore.
- **Dr. C.K. Narayanappa** - 'Probable region identification and segmentation in breast cancer using the DL-CNN', IEEE Second International Conference on Smart Systems and Innovative Technology (ICSSIT 2019), Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, 27-29 Nov 2019.
- **Dr. N Sriraam** - 'Asymmetrical Analysis of Breast Thermal Images for Detection of Breast Cancer', Three-day annual conference on Non-Destructive Evaluation, 5-7 Dec 2019.

#### Guest Lecture's Invited:

- **Ms. Razdan Shilpa**, Regulatory affairs manager, Humblebaek, Denmark - 'School to Career: Different Directions within Medical Technology' on 20<sup>th</sup> Nov 2019.
- **Mrs. Nandini S**, ILOVE2CARE trust - 'Program for Acquiring 100 Activity Points (PAAP)' on 18<sup>th</sup> Nov 2019.

#### Guest Lecture Delivered by the Department faculty

- **Purnima B R** - 'Correlation Analysis of EEG Signals in Weak workshop on Non-Linear Biomedical Signal Processing' at FDP on 'Non-linear Biomedical Signal Processing' at Ramaiah Institute of Technology on 8<sup>th</sup> Jan 2020.
- **Dr. Basavaraj Hiremath** - 'EEG analysis using Wavelet transformation' at FDP on 'Non-linear Biomedical Signal Processing' at Ramaiah Institute of Technology on 8<sup>th</sup> Jan 2020.
- **Dr. N Sriraam** - 'Bio Signal modules and clinical applications' at FDP on 'Non-linear Biomedical Signal Processing' at Ramaiah Institute of Technology on 09<sup>th</sup> Jan 2020.
- **Dr. Basavaraj Hiremath** - 'Analysis of EEG signals using Wavelet transforms', Department of Medical Electronics, Dayananda Sagar College of Engineering, Bengaluru.
- **Dr. N Sriraam** - 'Wearable affordable health care technology for recourse constrained settings' at a two-day symposium on Affordable healthcare organized by Dept. of CSE and ISE, Dayananda Sagar College of Engineering on 14<sup>th</sup> Nov 2019.
- **Dr. N Sriraam** - 'Infrared Thermal Imaging for Medical Applications' during the pre-conference tutorial session of Annual conference of Non-Destructive Evaluation-2019 at Bengaluru, 2019, 4<sup>th</sup> Dec 2019.

#### Achievements

- **Dr. C K Narayanappa** - participated and secured 1st place in Kannada Quiz for faculty and staff members on account of Kannada Rajyotsava celebrations at RIT, Bengaluru on 14<sup>th</sup> Nov 2019.
- **Mrs. Purnima B R** - secured winner's trophy in Intra GEF Table Tennis Tournament 2019-2020 organized by Gokula Education Foundation on 14<sup>th</sup> Nov 2019.
- Best paper award for Kavya N, N Sriraam, Usha N, Sharath D, Prabha Ravi, Bharathi Hiremath, B. Venkatraman, M. Menaka - 'Asymmetrical Analysis of Breast Thermal Images for Detection of Breast Cancer', Three-day annual conference on Non-Destructive Evaluation on 5-7 Dec 2019.

## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

### Publication in International / National Journals:

- **Ravi C Bhaddurgatte, Vijaya Kumar BP, Kusuma S M** - 'Machine Learning and Prediction-Based Resource Management in IoT Considering Qos', International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-2, July 2019.
- **Kshama S B, Shobha K R** - 'Enhanced Artificial Bee Colony Algorithm for Load Balancing in Cloud Computing Environment', International Journal of Future Generation Communication and Networking Vol.13, No. 1, (2020), pp. 1366-1384.
- **Peter Reji, K. Natarajan, K. R. Shobha** - 'Challenges in implementing a wireless avionics network', Journal of Aircraft Engineering and Aerospace Technology, Emerald Publishing Limited [ISSN 1748-8842] [DOI 10.1108/AEAT-07-2019-0144].
- **Shreyas S Nayak, Panchami Prabhu, Ashwini KS, Swetha Amit** - 'Miniaturized Rectangular Patch Antenna Using Defected Ground Plane', National Journal of Signal Processing Volume 5 Issue 3.

### Paper presentation in National / International Conferences (Faculty):

- **C. Gururaja, Satish Tunga** - 'AI based Feature Extraction through Content-Based Image Retrieval', International Conference on Recent Innovative Trends in Computer Science and Applications, 25<sup>th</sup> - 26<sup>th</sup> October 2019.
- **Dr. B.K. Sujatha, Ramya H R** - 'Real Time Image Fusion based Technique for medical images', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019), 25<sup>th</sup> - 26<sup>th</sup> October 2019.
- **Kusuma S M, Veena K N, Vijaykumar B P, Varun B V** - 'Performance modeling of Energy Efficiency for Sensors Deployment in Embedded Wireless Sensor Networks', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications ICRITCSA, RIT, Bengaluru 25<sup>th</sup> - 26<sup>th</sup> October 2019.

- **Swetha Amit, Viswanath Talasila, Prasad Sastry** - 'Frequency Selective Surface-based Wearable chipless RFID antenna for WBAN applications', 2019 Asia Pacific Microwave Conference, Singapore, 10<sup>th</sup> - 13<sup>th</sup> December 2019.
- **Peter Reji, K. R. Shobha, Arun Kumar, Devaraj Sheshu, S Karthik, and Samyuktha Sena** - 'Wireless Intra-Aircraft Communication System', 2020 International Conference on Computer Communication and Informatics held during 22<sup>nd</sup> to 24<sup>th</sup> Jan 2020 at Coimbatore.
- **Peter Reji, Shobha K.R, Arun Kumar, Devraj Sheshu E, S Karthik, Samyuktha Sena** - 'Wireless Intra Aircraft Communication System', 2020 International Conference on Computer, Communication, and Informatics, Coimbatore, 21<sup>st</sup> -22<sup>nd</sup> Jan 2020.
- **K. Lakshmi Soumya, Parimala P** - 'Real Time Recognition and Monitoring of Moving Targets in video using Kalman filter', 3<sup>rd</sup> IEEE International Conference on Recent Trends on electronics, Information, Communication & Technology (RTEICT), IEEE Xplore, 27<sup>th</sup> February 2020.
- **Aishwarya K Dixit, Parimala Prabhakar** - 'Hard exudate detection using Linear Brightness method', 4<sup>th</sup> IEEE International Conference on Recent Trends on electronics, Information, Communication & Technology (RTEICT), IEEE Xplore, 2nd March 2020.
- **Ajmal Firdous, Kusuma S M** - 'Speeding up of Design Convergence using Spyglass', 2019 Global Conference for Advancement in Technology (GCAT) Bengaluru, India. Oct 18<sup>th</sup> -20<sup>th</sup>, 2019.
- **Kumar Suyash, Shobha K.R** - 'Application of Artificial Neural Networks for Heart Disease Prediction', 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications, 25<sup>th</sup> - 26<sup>th</sup> October 2019.

### Guest Lecture -Invited:

- **Dr. Papanna Reddy**, Founder and Managing Director PR Light Broad Comm Solutions - 'Fiber Optic System Engineering Design', for 7<sup>th</sup> sem B. E. Students October 2019.

- **Mr. Tarakeshava M.K, Hardware Verification engineer, Raiton Semiconductors Pvt. Ltd.** – 'Universal Verification Methodologies' for M.Tech students.

#### Guest Lecture delivered by the department faculty:

- **Dr. S G Shivaprasad Yadav** - 'Mat lab and Simulink for Embedded Digital Signal Processing & Applications' at Byregowda Institute of Technology, Kolar organized by Dept. of ECE, CBIT, Kolar on 21<sup>st</sup> October 2019.
- **Dr. Umesharaddy Radder** - 'Nano Technology' at BMSIT, Bengaluru on 4<sup>th</sup> November 2019.

#### Funded Project:

- **Dr. B.K. Sujatha** - AICTE under MODROBS Scheme has approved Rs.20 Lakhs on 31<sup>st</sup> December 2019 for the project titled "Performance Characterization of Flexible Wearable Antenna for Dynamic IoT Connectivity".
- **Dr. Swetha Amit** - TechniLab Instruments has approved Rs.20,000/- on 30-11-2019 for the project titled "Design of RF Filters, Log-periodic antenna at C-band".

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

- **Dr. Parimala P, Dr. J R Raol** - received Sir Thomas Ward Memorial Prize for Scopus indexed, a research paper titled "Image centroid tracking with Fuzzy Non-linear Function of Residual Based Observer" published in Journal of Institution of Engineers (India), Series B, Volume 99, Issue 5, 2018 on 27<sup>th</sup> December 2019 at International Conference held at Hyderabad by The Institute of Engineers (India).
- **Ms. Aakriti Suman and Ms. Streepriya** of 8<sup>th</sup> Semester attended the competition Samsung GLANZ conducted by Samsung Research India, Bengaluru titled "Sensor Placement Optimization for Elderly Care under the Guidance of Dr. K R Shobha and won the competition and were awarded a cash prize of Rs.25,000/-.
- **Shreyas S Nayak** of 8<sup>th</sup> Semester secured second place in the event LIGHT VOCAL SOLO (NON-FILMY) in Kalanjali-2019, the inter-collegiate techno-cultural fest hosted by Sir M Visvesvaraya Institute of Technology on 18<sup>th</sup> and 19<sup>th</sup> October 2019.

- **Yathin** of 2<sup>nd</sup> Semester won for Best Short Play (House of the Rising SUN) performed at Shutout 12 held on 12<sup>th</sup> and 13<sup>th</sup> October 2019.



- The Department organized a technical workshop on Basics of Chromatography, Instrumentation & Application of HPLC on 3<sup>rd</sup> December 2019 in collaboration with Spinco Biotech Ltd., Bengaluru.



- Training programme conducted on Instrumentation working and Applications of 'Flame Photometer' on 7<sup>th</sup> December 2019 in collaboration with M/s Aspire Inc, Bengaluru.





- Industrial visit to Indo-American Hybrid Seeds (I) Pvt. Ltd, Bengaluru on 13<sup>th</sup> November 2019.



- Industrial visit to Centre for Cellular and Molecular Platform (C-Camp), NCBS-TIFR, GKVK Post, Bellary Rd, Bengaluru on 5<sup>th</sup> December 2019.



- The Department of Biotechnology & the Department of Chemical Engineering, RIT, conducted a six days Faculty Development Programme (FDP) on 'Natural Products: Downstream Processing, Biosafety and Regulatory Affairs', from 6<sup>th</sup> to 11<sup>th</sup> January 2020 in association with the Himalaya Drug Company, Makali, Bengaluru.



- The Department of Biotechnology RIT has conducted a two days Hands-on training program for Students on Next Generation Sequencing from 5<sup>th</sup> to 6<sup>th</sup> March 2020, in association with Bengaluru Genomics Centre, Bengaluru.



- Industrial visit to The Himalaya Drug Company, Makali, Bengaluru was organized on 10<sup>th</sup> January 2020

#### Publications in National / International Journals:

- T P Krishna Murthy** – 'Solution Combustion Synthesis of Calcium Aluminate Nanocomposite Using Coffee Husk Extract as Green Fuel and its Application in Adsorptive Amputation of Anionic Dyes', - Mater. Res. Express, 2020, 7: 035503.
- T P Krishna Murthy** - 'Process optimization of methylene blue sequestration onto physical and chemical treated coffee husk based adsorbent', SN Applied Sciences (2020) 2:836.
- Samrat K** - 'Investigation of chemogenic and biogenic derived nanoZnO activity on excision wound in a rat model: a comparative study', Mater. Res. Express, 2020, 6: 1-17.
- Damodhar P** - 'Isolation and Genetic Characterization of Mutans Streptococci Associated with Dental Caries in Rural Field Practice of a Dental Institution: In vivo Study', Dent Res, 2019, 30: 889-93.
- Samrat K** - 'Comparative Study of Cytotoxic Activity of Nano Silver Against A549 and L929 Cell Lines', Asian Journal of Chemistry; 2020, 32, 374-380.
- Lokesh KN** - 'Optimization of Cellulase Production by Bacillus cereus through response surface methodology and its application in saccharification of biomass', Indian Journal of Environmental Protection, 2020, 39(12): 1091-1099.

#### Guest Lecture- Invited:

- Mr. P.N. Santosh** - BYJU's Think and Learn Pvt. Ltd, Bengaluru – 'Profile Building Workshop for biotechnology Students', on 18<sup>th</sup> October 2019.

- **Dr. S. Nagarathna** - Prof. & Head, Dept. of Neuromicrobiology, NIMHANS, Bengaluru - 'Infections of the Central Nervous System' on 25<sup>th</sup> October 2019.
- **Dr. Madhav Ram Paranandi** - Senior Director, Manufacturing Sciences & Technology, M/s KemwellBiopharma Pvt. Ltd. - 'Biologics Manufacturing: Developing and Delivering Next-Generation Medicines' on 28.11.2019.
- **Prof. James Deuchars** - School of Biomedical Sciences, Faculty of Biological Science, University of Leeds, United Kingdom delivered a talk on 'Mind Control: making other people move with the power of your thoughts & The Wonders of the Wanderer - the vagus nerve in health and disease' on 22.01.2020.
- **Ms. Ankitha Channabasappa** - Development Scientist, Beckman Coulter Life Sciences, Bengaluru delivered a talk on 'Experiences in Pharmaceutical Industry' on 25.01.2020.
- **Dr. Filippo Prisci** - Senior Lecturer, School of Life Science, University of Essex, UK, delivered a talk on 'Biochemistry of Macromolecules' on 07.02.2020.
- **Dr. N Ravi Sundareshan**, Professor, Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru delivered a talk on 'Targeted Genome Editing' on 07.02.2020.
- **Dr. Prakash Subramanyan** - Senior Principal Investigator, Biocon Bristol Myers Squibb, Bengaluru, delivered a talk on 'CRISPR' on 18.02.2020.
- **Dr. Dipankar Nandi** - Professor, Dept. of Biochemistry, IISc, Bengaluru delivered an invited talk on 'T cell co-stimulation, anti-tumor responses, and the 2018 Nobel prize' on 28.02.2020, the occasion of National Science Day.

#### Funded projects:

- **Dr. Bindu S & Ms. V. Vijayalakshmi** - In Vitro Studies on Effects of Carbon Nanotubes on Antioxidant Mechanism in Human Neuronal Cells, IEL R&D Grant-in-Aid Scheme, 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. Chandraprabha M.N & Ms. Sanchita Sharma** - Enhanced Production of Indigo (Precursor of Indigo Dye) from cell suspension culture of Indigoferatinctoria and its up-scaling through bioreactor, DST, Rs. 23.72 Lakhs.

#### Student Achievements:



- **Harini N, VII Semester** - Winners of Public Speaking Contest, South Zone, Voice for BT, organized by Novozymes South Asia Pvt. Ltd, Bengaluru with prize money of Rs. 20,000/- held on 6<sup>th</sup> December 2019 at VIT Vellore, Tamil Nadu.

#### DEPARTMENT OF MATHEMATICS



- Conducted Written Mathematics Quiz competition 'RIT Slice of PI - 2019' for II PUC students across Bengaluru on 10.11.2019.



- Conducted Oral Mathematics Quiz competition 'RIT Slice of PI – 2019' for II PUC students across Bengaluru on 23.11.2019.
- Conducted one week Faculty Development Program on 'Applications of Optimization Techniques & Number Theory in Engineering Sciences' on 16<sup>th</sup> to 21<sup>st</sup> January 2020.

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

- **Uma M, Dinesh P A, A Sreevallabha Reddy** – 'Efforts of Radiation Absorption, solet and Dufour on Couette Flow in an Irregular Channel for Dusty Viscoelastic Fluid', VTU, Journal of Engineering Science and Management, Vol. 1 No. 4, PP 24-30, Dec 2019.
- **Shashi Prabha Goagte S** – 'Two-phase Microscopic Heat Transfer Model for Three-Dimensional Stagnation Boundary-layer Flow in a Porous Medium', Vol.142 (2), PP 22701-, Dec 2019.
- **Dinesh P. A, et al** - 'Machine learning based assessment of auditory threshold perception in human beings', SN Applied Sciences, online January, 2020. <https://doi.org/10.1007/s42452-019-1929-7>. (WOS)
- **Dinesh P. A, et al** - 'The Analytical Study of Velocity Slip on Two-Phase Flow in an Eccentric Annular Region', Advances in Applied Mechanical Engineering, pp 223-231. 2020 DOI: 10.1007/978-981-15-1201-8\_26 (with Uma Devi. B, Dinesh P. A. and Vinay C. V.)
- **Suma Lingaraju & Dinesh P. A** - 'Electroencephalogram-Based Emotion Recognition Using a Particle Swarm Optimization-Derived Support Vector Machine Classifier', Critical Reviews TM in Biomedical Engineering, 48(1):17 – 28, 2020.

#### Paper presentation in National / International Conferences:

- **Dr. Dinesh P. A** - Presented a research paper in the International Conference on 'Mathematical Computer Engineering' (ICMCE2020) organized by Department of Mathematics Division, School of Advanced Sciences, Vellore Institute of Technology, Chennai during 21-22, February, 2020.

#### Funded Project:

- **Dr. Vijaya Kumar and Dr. C Siddaraju** - completed one project on 'Mathematical Algorithms to identify key thermal parameters from cooling curves during solidification of iron melt', in association with Mechanical Department and SNAM Alloys Pvt. Ltd. (Rs. 1.77 Lakhs).

#### Guest Lectures Invited:

- **Dr. Arulalan Rajan** - Former Professor, Dept. of ECE, NITK, Suratkal - 'Eigen values & SVD' by Friday, 14.02.2020.
- **Rema Venkataraman** - Asst. Professor, Dept. of MBA, Ramaiah Institute of Management, Bengaluru - 'Mathematics of Queues' by Mrs. on Friday, 13.03.2020.

#### Faculty who obtained Ph.D. Degree:



**Mr. Vijaya Kumar** - is awarded Ph.D in Mathematics from VTU, Belagavi for the thesis titled 'Convection in Bidisperse Porous Media with Internal Heat Generation and Modulation' under the guidance of Dr.V Ramachandramurthy, Former Professor, Dept. of Mathematics, RIT, Bengaluru.

#### DEPARTMENT OF CHEMISTRY



- In association with 'Shivaganga Savayava Tarakari Belegarara Sangha', Kempalinganahalli, Nelamangala and Luminescence Society of India: Karnataka Chapter (LSIKC), arranged farmers conference for the benefit of farmer's/farming community and aims at bringing successful famers and land owners, financiers, sellers and buyers of chemical-free agri-products in one forum. Date: 20-11-2019.





- LSIKC conducted a social outreach program called 'Vidyarthi Riatha Mithra (Farmers Market)' on 02-11-2019 in association with Department of Chemistry, M. S. Ramaiah Institute of Technology, Bengaluru, and Maharani's Science College for Women Palace Road, Bengaluru. In this program, farmers market was conducted at Maharani's Science College. Few farmers from Nelamangala come with their agriculture produce and participated.



- On 17<sup>th</sup> November - 2019, Kannada Rajyotsava was celebrated at the department of chemistry in association with Luminescence Society of India: Karnataka Chapter (LSIKC).



- Luminescence Society of India: Karnataka Chapter (LSIKC), is closely associated with farmers & conducting programs related to protection of environment, farming and development of villages. In this connection, 'Swadeshi Diwas' program was organized at Sahakara Nagara, Bengaluru on 01-12-2019.



- In association Luminescence Society of India: Karnataka Chapter (LSIKC), conducted a program called 'Family Farmer' at Lakkenahalli, Nelamangala, 22-12-2019.



- In association with Luminescence Society of India: Karnataka Chapter (LSIKC), department of chemistry organized a Zero-budget program called 'Knowledge Sharing' for research scholars on 17<sup>th</sup> November 2019.





- Inauguration of one-week FDP: Recent Trends in Biological and Environmental Science (RTBES-2020)" held during 13<sup>th</sup> – 18<sup>th</sup> Jan 2020.



- Visit to Poornaprajna Institute of Scientific Research, Poornaprajnapura, Bidalur (Post), Bengaluru. 16<sup>th</sup> Jan 2020.



- One - day workshop 'Raitha Sambruddhi - 4' was conducted for Farmers at Siddara Betta, Koratagere Taluk, Tumkur District. This program was arranged by Luminescence Society of India: Karnataka Chapter (LSIKC) on 21-02-2020.



- Department has organized 'Half yearly Research Review Meeting (RRM)' On 04-01-2020.



- In association with Kanneri Mutt, Maharashtra, Luminescence Society of India: Karnataka Chapter (LSIKC) conducted 3 days workshop at Kanneri (Maharashtra) on the topic: 'Strategies for Sustainable Rural Development', Sri. Adrishya Kadasiddeshwara Swamiji blessed the occasion, 06-03-2020.



- Participants of second day; workshop on the topic: 'Strategies for Sustainable Rural Development', held at Kanneri Mutt, Maharashtra, 07-03-2020.



- In association with Luminescence Society of India: Karnataka Chapter (LSIKC) Department of Chemistry conducted a program called 'Knowledge Sharing'; it was arranged for Research Scholars working on 'Nano materials and their applications, 01-03-2020.

### Publications (National / International) Journals:

- **Dr. B. M. Nagabhushana, C. R. Manjunatha** - 'Effective and fast adsorptive removal of fluoride on  $\text{CaAl}_2\text{O}_4$ '. Materials Research Express, October 2019, Vol.6, Page.No:115089.
- **Dr. B. M. Nagabhushana** – 'Perovskite lanthanum aluminate nanoparticles applications in antimicrobial activity, adsorptive removal of Direct Blue 53 dye and fluoride'. Materials Science and Engineering: C, 2019, Vol. 101, Pg.: 674-685.
- **Dr. B. M. Nagabhushana, Dr. R. HariKrishna.** - ' $\text{SrTiO}_3:\text{Dy}^{3+}$  nanophosphor: synthesis, characterization and photoluminescence properties'. Material Research Express, November 2019, Vol.6, Pg.No.: 125062.
- **Dr. Nagaraju Kottam** – 'Multifunctional properties of microwave-assisted bioengineered nickel doped cobalt ferrite nanoparticles'. Journal of Sol-Gel Science and Technology (Springer Nature). 2019, 1-18. DOI: <https://doi.org/10.1007/s10971-019-05048-6>.
- **Dr. Nagaraju Kottam, R Hari Krishna, Dr. B.M. Nagabhushana** – 'Removal of Evans Blue dye from aqueous solution using magnetic spinel  $\text{ZnFe}_2\text{O}_4$  nanomaterial: Adsorption isotherms and kinetics'. Nano-Structures & Nano-Objects (Elsevier), 18 (2019) 100290.
- **Dr. Nagaraju Kottam** - 'Enhanced Photocatalytic degradation of methylene blue dye using  $\text{CuS-CdS}$  nanocomposite under visible light irradiation'. Applied Surface Science, 475 (2019) 828-838. doi.org/10.1016/j.apsusc.2018.12.178.
- **Dr. R. HariKrishna** - 'Comparative study of cytotoxic activity of nano Silver against A549 and L929 Cell Lines'. Asian Journal of Chemistry, Vol.32, Page. No:374-380, 2019.
- **Dr. R. HariKrishna** - 'Judd-Oflet analysis, electronic and elastic properties from ab-initio study and photocathodoluminescence studies of  $\text{Eu}^{3+}$  activated  $\text{CdWO}_4$  nanophosphors'. Journal of hazardous materials, Vol.6, Page.No:125053, November 2019.
- **Dr. R. HariKrishna** - 'Investigation of chemogenic and biogenic derived nano ZnO activity on excision wound in rat model: a comparative study'. Material Research Express, Vol.6, Pg.: 125062, 2019.
- **Dr. R. HariKrishna** - 'Amphotericity - spectroscopy correlations in Eu doped sodium bismuth titanate ( $\text{NaO} \cdot 5\text{BiO} \cdot 5\text{TiO}_3$ )', Materialia, Vol.7, Pg.No.:100426, 2019.
- **Dr. R. HariKrishna** - 'High electrochemical performance of nano  $\text{TiO}_2$  ceramic filler incorporated PVC – PEMA composite gel polymer electrolyte for Li – ion battery applications'. Material Research Express, Vol.6, Pg.No.:105524, 2019.
- **Dr. R. HariKrishna** - 'Photo-andthermoluminescence properties of single – phase white light – emitting  $\text{Y}_{2-x}\text{SiO}_5:\text{x}\text{Dy}^{3+}$  nanophosphor: a concentration-dependent structural', Applied Physics A, Vol.125, Pg.No.: 526, 2019.
- **Dr. B. M. Nagabhushana, P. A. Prashanth** - 'In vitro antibacterial, antioxidant and cytotoxicity response of  $\text{CuO}$  nanoparticles prepared by lemon juice and citric acid fueled solution combustion synthesis'. International Journal of Advanced Science and Technology, 2020, Paper ID: IJAST 2363.
- **Dr. B. M. Nagabhushana, P. A. Prashanth** – 'In vitro antibacterial and anticancer response of  $\text{MgO}$  nanoparticles prepared by solution combustion synthesis', International Journal of Advanced Science and Technology, 2020, Paper ID: IJAST 2362.
- **Dr. B. M. Nagabhushana, A Sangeetha, C. K Jayasankar** - ' $\text{Er}^{3+}$  activated and  $\text{Yb}^{3+}$  sensitized upconversion photoluminescence in zirconium titanate nano powders', Solid State Sciences, 2020/4/18, Pg.No.: 106232.
- **C. Manjunath, R Hari Krishna, B. M. Nagabhushana** - 'Thermoluminescence glow curve analysis of gamma irradiated  $\text{Sr}_2\text{SiO}_4:\text{Dy}^{3+}$  nanophosphor', Physica B: Condensed Matter, 2020/3/4, Pg.no.: 412113.
- **J Puneetha, G Nagaraju, A Rathna, Nagaraju Kottam** – 'Visible light active  $\text{ZnO}$  nanostructures prepared by simple co-precipitation method', Photonics and Nanostructures-Fundamentals and Applications, 2020/5/1, Vol.39, Pg.no.: 100781.
- **S P Smrithi, Nagaraju Kottam, V Arpitha, Archana** – 'Tungsten oxide modified with carbon nanodots: Integrating adsorptive and photocatalytic functionalities for water remediation', Journal



- of Science: Advanced Materials and Devices, 2020/2/25.
- **P. Murali Krishna Shivakumara N** – 'Synthesis, Spectral Characterization, Evaluation of their DNA interaction of 5-substituted-2-thiadiazole-amine', Journal of Molecular Structure, 2020, VOL.1199
  - **Anu Sukhdev, Malathi Challa, Lakshmi Narayani** – 'Synthesis, phase transformation, and morphology of hausmannite  $Mn_3O_4$  nanoparticles: photocatalytic and antibacterial investigations', Heliyon, 2020/1/1, Vol. 6, Pages: e03245.
  - **Basappa Chanabasappa Yallur** – 'Preparation and optical parameter characterization of two aldehyde derivative thin films for photonic applications by drop casting method', Luminescence, 2020, 3, 23.
  - **Sharanabasappa B. Patil** – 'Medicinal Siganificance of Pyrazole Analogues: A Review', J. Pharm. Sci. & Res, 2020/3, Vol. 12, Page.no: 402-404.
  - **Shreya K and Kruti S Sharanabasappa B. Patil** – 'Extraction of Amino acids from Human Hair "Waste" and Used as Natural Fertilizer', J. Pharm. Sci. & Res, 2020/2, Vol. 12, Page. No.: 271-278.
  - **R. Preetham, R Hari Krishna** – 'Vehicular soot for improvement of chemical stability of cement composites towards acid rain and sewage like atmospheres', Construction and Building Materials, 2020/7/10, VOL. 248, Pages: 118604.
  - **Rajan Harikrishna** – 'Solution combustion synthesis of calcium aluminate nanocomposite using coffee husk extract as green fuel and its application in adsorptive amputation of anionic dyes', Materials Research Express, 2020/1/14.
  - **R. T. Yogeeshwari, Rajan Harikrishna** – 'Synthesis of acid resistant  $Fe_2V_4O_{13}$ -polypyrrole nanocomposite: its application towards the fabrication of disposable electrochemical sensor for the detection of ...', Materials Research Express, 2020/1/7.
  - **R Hari Krishna** – 'Conductivity and Dielectric Studies on Combustion Derived Self-Doped Ceria Nanoparticles', Journal of Nanoscience and Technology, Vol. 6, Pages: 882-885.
  - **R. Hari Krishna** – 'Effect of  $Eu^{3+}$  on Optical and Energy Bandgap of  $SrY_2O_4$  Nanophosphors for FED Applications', Optik - International Journal for Light and Electron Optics, 2020.
  - **R. Hari Krishna** – 'Influence of Albite Activator in Geopolymerisation of Slag Wastes from Iron and Aluminium Industry', International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2020, Volume. 9, Pages: 2326-2329.
  - **R. Hari Krishna** – 'Comparative Study of Cytotoxic Activity of Nano Silver against A549 and L929 Cell Line', Asian Journal of Chemistry, 2020, Volume. 32, Pages: 374-380.
- Paper Presentation in National / International conferences:**
- **Sharanabasappa B. Patil** - 'Isolation and Biological Activities of Rauvolfia Serpentina' International Conference on Innovations and Challenges in Science and Technology (ICICST-2019) Organized by Department of Science and Humanities Don Bosco Institute of Technology, Mysore Road, Bengaluru, on 19<sup>th</sup> to 23<sup>rd</sup> December 2019 (Oral).
  - **Gouramma P and Sharanabasappa B. Patil** - 'Pharmacological Significance of Medicinal Plants: A Review' during 1<sup>st</sup> International conference on 'Life, Chemical and Health Sciences' (ICLCHS-2019)), JOINTLY ORGANIZED BY Department of Life Sciences, Ramaiah College of Arts, Science and Commerce (RCASC), Karnataka Science and Technology Academy (KSTA), Department of IT, BT, & Science and Technology, Government of Karnataka (GoK) On 24<sup>th</sup> to 26<sup>th</sup> October 2019 (Oral).
  - **Gouramma P and Sharanabasappa B. Patil**- 'Phytochemical Screening and Antibacterial Activity of various extracts of Ailanthus excels Bark', during International conference on Recent trends in Science, Engineering, Business Studies and Humanities Studies (ICSEBSHS-2019), Organized by Sharanabasaveshwar University, Kalburgi On 30<sup>th</sup>, 31<sup>st</sup> and 1<sup>st</sup> of September 2019. (Best Poster Presentation Award).
  - **Gouramma P and Sharanabasappa B. Patil** – 'Isolation, Pytochemical Screening and Analgesic Activity of Various Extracts of Rauvolfia Serpentina', during International conference on Advances in Materials Research (ICAMR-2019), Organized by Department of Chemistry and Mechanical &

Manufacturing Engineering, Ramaiah University of Applied Sciences, Bengaluru On 25<sup>th</sup> to 27<sup>th</sup> July 2019.

- **Sharanabasappa B. Patil**, Chaired the Session: During International Conference on Innovations and Challenges in Science and Technology (ICICST-2019) Organized by Department of Science and Humanities Don Bosco Institute of Technology, Bengaluru, on 19<sup>th</sup> to 23<sup>rd</sup> December 2019.

#### Funded project:

- **Dr. Nagaraju Kottam** - 'Environmentally Benign Adsorbents/Catalysts for Waste Water Treatment and Biological /applications. Received from 'MSRIT-Bengaluru', 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. Murali Krishna** - 'Environmental friendly coatings: To replace chrome based conversion coatings with chrome-free coatings'. Grant by 'Boeing Research & Technology-India Centre'.

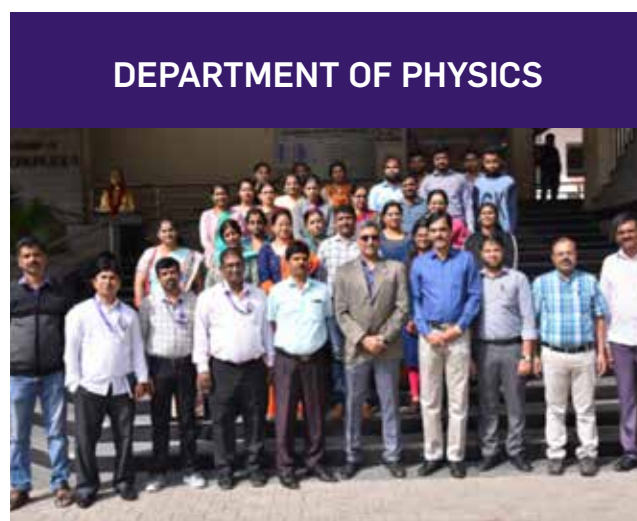
**Grant:** Rs. \$30,865/-

#### Guest Lectures – Delivered by Department Faculty:

- **Dr. Nagaraju Kottam** - 'Research & Motivational talk in chemistry" for UG students on 19-09-2019 at Govt. College for Boys, Chintamani, Chikkaballapur.
- **Dr. B. M. Nagabhushana** – Effect of morphology on properties of oxide Nano materials, National conference on Semiconductors, surfaces, Alloys Modeling and Preparations' Sree Sevugam Annamalai College, Devakottai, TN 06-12-2019.
- **Dr. B. M. Nagabhushana** – Research for Sustainable Entrepreneurship Capabilities and Social Commitment, 'One-day National Seminar on Chemical Synthesis of Nano materilas', Vidya Giri College of Arts and Science, Puduvayal, TN, 07-12-2019
- **Dr. B. M. Nagabhushana** – 'Oxide Nano materials for global Empowerment' International Conference

on Materials for 'Environment, Sustainable Society And Global Empowerment – 2019' National Environmental Science Academy (NESA), New Delhi and Department of Nanotechnology, organized by Visvesvaraya Technological University (VTU). Center for Postgraduate Studies Muddenahalli, Chikkaballapur 19<sup>th</sup> - 20<sup>th</sup>, December, 2019.

- **Dr. B. M. Nagabhushana** – 'Solution Combustion Synthesis: A wet chemical Method for Preparation of Nano metal oxides'. International Conference on, Advanced Materials, Arul Ananadar College, Karumathur, TN, 11-02-2020.
- **Dr. B. M. Nagabhushana** – Nano materials for various technological applications, Faculty Development Program on Recent Developments in Energy, Environment and Health Sector, Acharya Institute of Technology, Bengaluru 04-02-2020.
- **Dr. B. M. Nagabhushana** – 'Nanoparticles: Synthesis and their applications', Science and Research Forum Activities, Vivekananda Degree college, Rajajinagar, Bengaluru, 23-01-2020.



- Faculty Development Program on 'Recent Trends in Biological and Environmental Sciences', was organized from 13<sup>th</sup> to 18<sup>th</sup> January 2020.

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

- **Dr. A. Jagannatha Reddy & Dr. G N Anil Kumar** - Judd – Ofelt analysis, 'electronic and elastic properties from ab-initio study and photo - cathodoluminescence studies of Eu3+ activated CdWO4 nanophosphors', Mater. Res. Express, 6 (2019) 125053.

- **Dr. G N Anil Kumar** – 'A click chemistry approach for the synthesis of cyclic ureido tethered coumarinyl and 1-aza coumarinyl 1,2,3-triazoles as inhibitors of Mycobacterium tuberculosis H37Rv and their in silico studies', *Bioorganic & Medicinal Chemistry* 27 (2019) 115054.
- **Raveendra Melavanki** – 'Solvent Effect on the Relative Quantum Yield and Preferential Solvation of Biologically Active Coumarin Derivative', DOI: 10.1002/masy.201800210, *Macromol. Symp.* 2019, 387, 1800210.
- **Raveendra Melavanki & Kalpana Sharma** – 'Effect of Contact and Collisional Quenching Model on 2-Bromophenyl Boronic Acid Using Positive Deviation S-V Plots', DOI: 10.1002/masy.201800222, *Macromol. Symp.* 2019, 387, 1800222.
- **Kalpana Sharma & Raveendra Melavanki** – 'Analysis of Pure Collisional Quenching of 2-Isopropylphenyl Boronic Acid using Linear S-V Plots', DOI: 10.1002/masy.201800221, *Macromol. Symp.* 2019, 387, 1800221.
- **Dr. A. Jagannatha Reddy & Dr. G N Anil Kumar** – Judd Ofelt theoretical analysis, 'Photoluminescence properties of Eu<sup>3+</sup> activated LiGd(WO<sub>4</sub>)<sub>2</sub> phosphors', *Journal of Luminescence*, Vol. 222, (2020) 117167.
- **Dr. Raveendra Melavanki & Dr. Kalpana Sharma** – 'Quantum chemical computations and photophysical spectral features studies of two coumarin compounds', <https://doi.org/10.1002/bio.3791>, *Luminescence*. 2020, 1–18.
- **Dr. Raveendra Melavanki & Dr. Kalpana Sharma** – 'Fluorescence properties of aromatic asymmetric di-ketone compound in polar and non-polar solvents', *Journal of Physics: Conference Series* 1473 (2020) 012044, IOP Publishing, DOI:10.1088/1742-6596/1473/1/012044.
- **Dr. Raveendra Melavanki & Dr. Kalpana Sharma** – 'Fluorescence spectroscopic studies on preferential solvation and bimolecular quenching reactions of Quinolin-8-ol in binary solvent mixtures', *Journal of Physics: Conference Series* 1473 (2020) 012045, IOP Publishing, doi: 10.1088 / 1742-6596 / 1473 / 1 / 012045
- **Dr. Raveendra Melavanki & Dr. Vijayanthimala** – 'Preparation and optical parameters characterization of two aldehyde derivatives thin films for photonic applications by drop casting method', <https://doi.org/10.1002/bio.3800>, *Luminescence*. 2020, 1–10
- **Dr. G N Anil Kumar** – 'Crystal structure, quantum chemical and Hirshfeld surface analysis of N-ethyl-6-methyl-2-oxo-4-phenyl-1,2,3,4-tetrahydropyrimidine-5-carboxamide', *Chemical Data Collections* Vol. 25 (2020) 100328.
- **Dr. G N Anil Kumar** – 'Crystal structure, quantum chemical and theoretical charge density analysis of 5-bromo-2-(4-methylbenzyl)-6-(4-nitrophenyl)imidazo[2,1-b][1,3,4]thiadiazole', *Chemical Data Collections* Vol. 25 (2020) 100326.
- **Dr. G N Anil Kumar** – 'Crystal structure, DFT and Hirshfeld surface analysis of (E)-N-[(1-chloro-3, 4-dihydronaphthalen-2-yl) methylidene] benzohydrazidemonohydrate', *Acta Cryst.* Vol. E76, (2020) 132–136.
- **Dr. Raveendra Melavanki** – 'Preferential solvation and bimolecular quenching reactions of boronic acid dye at very low quencher concentrations studied by fluorescence spectrum in toluene and butanol binary mixtures', *Indian Journal of Pure & Applied Physics*, Vol. 58, March 2020, pp. 168-177.

#### Paper presentation in National / International Conferences:

- **Kalpana Sharma & Raveendra Melavanki** – 'Fluorescence spectroscopic studies on preferential solvation and bimolecular quenching reactions of Quinolin-8-ol in binary solvent mixtures', International conference on 'Thermo fluids & Energy systems', BNMIT, Bengaluru, December 2019.
- **Dr. Raveendra Melavanki** – 'Binding interaction between boronic acid derivatives with monosaccharides: Effect of structural change of monosaccharides upon binding using S-V plots', Fourth International Conference on Advances in Material Science (ICAMS-2020), Raje Ramrao College, Jath, Maharashtra, during 20<sup>th</sup> - 21<sup>st</sup> January 2020.
- **Dr. Raveendra Melavanki** – 'Optical characterization of aromatic unsymmetric di-ketone doped PMMA thin films for photonic applications by spin coating method of spectroscopic technique. International conference on Smart materials and Nanotechnology



(ICSMN-2020)', SKN Sinhgad College of Engineering, Korti, Pandharpur, Solapur-413 304, Maharashtra, during 2<sup>nd</sup> - 4<sup>th</sup> January 2020.

- **Dr. Raveendra Melavanki & Dr. Kalpana Sharma-** 'Study of bimolecular quenching reactions of Coumarin dye C1 by the fluorescence behavior in toluene and butanol binary mixtures', Fourth International Conference on Advances in Materials Science (ICAMS-2020), Raje Ramrao College, Jath, Maharashtra, during 20<sup>th</sup> - 21<sup>st</sup> January, 2020.
- **Dr. Raveendra Melavanki & Dr. Kalpana Sharma-** 'Optical characterization of chalcone doped PMMA thin films for photonic applications using spectroscopic technique of drop casting method', Fourth International Conference on Advances in Materials Science (ICAMS-2020), Raje Ramrao College, Jath, Maharashtra, during 20<sup>th</sup> - 21<sup>st</sup> January, 2020.
- **Dr. Raveendra Melavanki & Dr. Vaijayanthimala –** 'Photo physical Properties of Aromatic Asymmetric di-ketone Compound in Polar and Non Polar Solvents, International conference on Smart materials and Nanotechnology', (ICSMN-2020), SKN Sinhgad College of Engineering, Korti, Pandharpur, Solapur-413 304, Maharashtra, during 2<sup>nd</sup> - 4<sup>th</sup> January, 2020.
- **Dr. Raveendra Melavanki & Dr. Kalpana Sharma-** 'Optical properties characterization of chalcone doped PMMA thin films using drop casting method', DAE-BRNS 15<sup>th</sup> Biennial TSRP-2020 held from 5<sup>th</sup> - 9<sup>th</sup> January, 2020 at BARC, MUMBAI.

#### Guest Lecture/s - Invited:

- **R. K. Reddy** - CEO and Managing Director, EffOne Technologies Private Limited, Bengaluru, delivered a talk 'Thoughts for the digital age' on 11-10-2019.

#### Guest Lecture delivered by the department faculty:

- **Dr. Raveendra Melavanki** - delivered an invited talk on 'Photophysical Properties of heterocyclic compounds in different environments' at Fourth International Conference on Advances in Material Science (ICAMS-2020), Raje Ramrao College, Jath, Maharashtra, on 21<sup>st</sup> January 2020.

## DEPARTMENT OF HUMANITIES



- Department of Humanities organized an Orientation Programme in association with the Department of MBA on Friday 6<sup>th</sup> December 2019 for BE I-year students. The Chief-Guest & Speaker Smt. Vasantha Vaikunth, founder of lifenliving.org gave a talk on 'Relationship building and Changing Lifestyles.' Student Penal Discussion followed.



- Department of Humanities organized an Orientation Programme in association with the Department of MBA on Saturday 07<sup>th</sup> December 2019 for BE I-year students. The Chief-Guest & Speaker Smt. Vasantha Vaikunth founder of lifen living.org. gave a talk on 'Relationship building and Changing Lifestyles.' Student penal discussion followed. 240 Students from TE, CV, EE, BT branches have participated.

#### Publications in (National/international) journals:

- **Mr. Udayakumar. H M** – 'The Digital evolution and the adaptability of different generations at Digital Workplace in IT Industry', International Journal of Research and Analytical Reviews (IJRAR), Volume.7, Issue-1 (9<sup>th</sup> February 2020) E-ISSN: 2348-1269, P-ISSN:-2349-5138, pp742-746.

**Paper presented in National/International Conferences:**

- **Mr. Udayakumar. H M** - 'Digital Workplace: Technological tools influencing on Employees Performance towards Sustainability', International Conference on 'Sustainability Challenges in the emerging Social and Business Landscape', St. Joseph's Institute of Management, M.G.Road, Bengaluru, Karnataka, India, 24<sup>th</sup> & 25<sup>th</sup> January 2020.



- Department organized 2<sup>nd</sup> International Conference on Recent Innovative Trends in Computer Science and Applications (ICRITCSA-2019) 25<sup>th</sup> & 26<sup>th</sup> October 2019, in association with the Department of ISE and the Department of CSE. Chief-Guest of this Conference Shri. Vishy Vallamkonda, Vice-President-Engineering, Rivers and Technologies, Bengaluru and Guest of Honour Mr. Satoshi Nagata, Sagri-Executive Supervisor, Head office, Japan.



- The department organized a workshop on "Python and Selenium Automation" for the third-semester students on 20<sup>th</sup> November 2019 in association with Technolves-MCA Students Association. The resource person Mr. Prabhakar Gudi, Senior Consultant, Gowri Software Solutions Pvt. Ltd has conducted the sessions.



- The department of MCA organized a one-week faculty development programme on 'Digital Forensics' from 13<sup>th</sup> January to 18<sup>th</sup> January 2020. The aim of the workshop is to offer practical illustrations that how evidence can be captured from Computers, Laptops, Mobile Phones, and other Electronic Gadgets. The workshop also focuses on awareness and knowledge of the nature of computer record evidence in respect of the substantial legal and procedural issues in legal proceedings.



- Workshop on "Creating Scientific Awareness through Demonstration of Medicinal Plants" was organized from 6<sup>th</sup> to 10<sup>th</sup> January 2020 and 13<sup>th</sup> to 18<sup>th</sup> January 2020 for Students and Teachers from Karnataka. It was funded by NCST, STEM, DST. Technical support was given by RISA.
- **Industry Visit:** Department of Master of Computer Applications conducted Industry visit to - Cognizant Technology Solutions India Private, Bengaluru for MCA students on 24<sup>th</sup> February 2020. Cognizant Technology Solutions is partnering with Academia to enable market readiness by providing an opportunity to visit campus to understand how the IT industry works and Technologies using.

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

- **Dr. S Ajitha** - 'Modelling the Negotiation of Agents in MAS and Predicting the Performance-an SPE Approach', Informatica, An International Journal

of Computing and Informatics, Volume-43, No.3, (Nov 2019), PP: 349 -354.

- **Swathi S, Yogish H K** - 'Secure Data Aggregation in IoT using Efficient-CSDA', International Journal of Electrical and Computer Engineering (IJECE), Vol. 9, No. 6, ISSN: 2088-8708, DOI: 10.11591/ijece.v9i6. (December 2019) pp4889-4897, pp. 4889~4897.
- **Vinutha K, Yogisha H K** – 'Employability Prediction of Engineering Graduates using Machine Learning Algorithms', International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-5, January 2020.
- **Dr. Niranjnamurthy M** – 'Coronavirus – COVID-19 before and after solution through web application and App', International Journal of Advanced Science and Technology, 29(5s), 27<sup>th</sup> – 41<sup>st</sup>, March 2020.
- **Dr. Niranjnamurthy M, Naresh et.al** – 'Well-organized solution and information for cancer disease through web application and app', International Journal of Advanced Science and Technology, 29(5s), 27<sup>th</sup> – 41<sup>st</sup>, March 2020.

#### Paper presentation in National / International Conferences:

- **Soubhagya, Yogish H K** – 'Knowledge Discovery from Web data for Web Personalization', 3<sup>rd</sup> International Conference on Data Engineering and Communication Systems - ICDECS- 2019, at RNSIT Bengaluru, December 19<sup>th</sup> & 20<sup>th</sup> 2019.
- **K. Santhosh and S. Ajitha** - 'Agent Technology for Data Analytics of Gene Expression Data: A Literature Review', 2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC), Erode, India, 11<sup>th</sup> - 13<sup>th</sup>, March 2020.
- **Kimmi Kumari, M. Mrunalini, Manish Kumar, ViswanathTalasila, Pradipkumar Dixit** - 'Design Model for Energy Trading on Blockchain', ICECCOT 2019, 13<sup>th</sup> - 14<sup>th</sup> December 2019.

#### Guest Lecture delivered by the department faculty:

- **Dr. Manish Kumar**, delivered two days Session on "Cyber Security" on 17<sup>th</sup> and 18<sup>th</sup> December 2019 during AICTE Sponsored Five Days Faculty Development Program, organized by the Department of Computer Science and Engineering,

JNTU, Ananthapuramu, Andhra Pradesh, India, from December 16<sup>th</sup> -20<sup>th</sup>, 2019.

- **Dr. Manish Kumar** delivered invited talk on 'Introduction to Cyber Crimes & Digital Forensics' during a one-day workshop on "Electronic Evidence" organized by Karnataka Judicial Academy judicial Officers, Police Officers, Prosecutors and Staff of Judiciary on 23<sup>rd</sup> November 2019 at Madikeri, Karnataka, India.
- **Dr. Manish Kumar** delivered two days Session on 'Cyber Security' on 18<sup>th</sup> and 19<sup>th</sup> November 2019 during AICTE Sponsored Two week Faculty Development Program, organized by H S R M College of Engineering, Kadapa, Andhra Pradesh, India from November 11<sup>th</sup> - 23<sup>rd</sup> 2019.
- **Dr. S Jagannatha** - 'Cloud Computing using Amazon Web Services' during AICTE sponsored two-week Faculty development programme on High-Performance Computing and Grid and Cloud Computing organized by the Dept. of Master of Computer Applications, New Horizon College of Engineering, Bengaluru, from 2<sup>nd</sup> to 14<sup>th</sup> December 2019.
- **Dr. S Jagannatha** - 'Amazon web services' organized by the Department of Information Science and Engineering, East Point College of Engineering and Technology from 10<sup>th</sup> to 11<sup>th</sup> 2019 October 2019.
- **Dr. Niranjnamurthy M** - 'Python and Machine Learning', Devi Ahilya University, INDORE, Madhya Pradesh from 14<sup>th</sup> - 15<sup>th</sup> October 2019.
- **Dr. Manish Kumar** delivered Two Days session on 23<sup>rd</sup> and 24<sup>th</sup> January 2020 for Faculty Development Program on 'Cyber Security & Blockchain Technology' (January 20-25, 2020), at Yenepoya Institute of Technology, Moodbidri, Mangalore, India.
- **Dr. Manish Kumar** delivered invited talk on 'Introduction to Cyber Crimes & Digital Forensics' during a one-day workshop on 'Electronic Evidence' organized by Karnataka Judicial Academy for Judicial Officers, Police Officers, Prosecutors and Staff of Judiciary on 16<sup>th</sup> February 2020 at Gadag, Karnataka, India.
- **Dr. Manish Kumar** delivered a talk during Faculty Development Program on 'Cyber Security Research Trends', 20<sup>th</sup> February 2020, at Department of



Computer Applications, Dayananda Sagar College of Arts, Science and Commerce, Bengaluru, India.

- **Dr. Manish Kumar** delivered invited talk on 'Dealing with the Challenges of Child Pornography Cases', during the Refresher Course under POCSO Act for Judicial Officers and Public Prosecutors on 29<sup>th</sup> February 2020 at Karnataka Judicial Academy, Karnataka, India.
- **Dr. Manish Kumar** delivered a one-day workshop on 'Embracing Industry 4.0 - Cyber Security', 15<sup>th</sup> March 2020, at JSSATE, Bengaluru, India.
- **Dr. S Jagannatha** - 'Demonstration of IoT Sensors using raspberry pi Kit – Hands-on session', Department of MCA, New Horizon College of Engineering, Bengaluru, on 7<sup>th</sup> February 2020.
- **Dr. S Jagannatha** – 'Launching and installing Linux EC2 Instance in Amazon Cloud', the students of MCA, Dept. of Computer Science and Applications, Bengaluru University, Bengaluru on 30<sup>th</sup> March 2020. (Online)
- **Dr. Madhu Bhan** gave a Lecture on 'AI and Machine Learning' at the Department of Computer Science and Management, Jain University, J. C Road Bengaluru on 9<sup>th</sup> March 2020.

#### Guest Lecture's - Invited:

- **Pavan T. S** - Software Engineer, Thinkify solutions, Bengaluru and Alumnus of the department – 'Introduction to BootStrap and its Applications', 04 -01-2020.

#### Achievement's, Awards/Prizes by Staff:

- **Dr. Niranjnamurthy M** - received Microsoft Certificate by Microsoft Technology Associate on 'Introduction to Programming using Python' 30 October 2019.
- **Dr. Niranjnamurthy M** - Completed Microsoft Technology Associate Certificate course 'MTA: HTML5 Application Development Fundamentals' February 2020.

'Health is the greatest gift, contentment the greatest wealth, faithfulness the best relationship'.

- Buddha

### DEPARTMENT OF MANAGEMENT STUDIES



- Organized 'VISHESH'-19 an extravagant Management on 8<sup>th</sup> and 9<sup>th</sup> November 2019. A fest is a two-day event comprising of various competitions in the realms of Marketing, Human Resource, and Finance. Besides these, Best Manager, Entrepreneurship development and Business Quiz competitions are designed to test the Managerial skills and business acumen of students.



- The Department of Management Studies, RIT organized a six-day Faculty Development Program (FDP) on "Emerging Business Opportunities and Empowering Management Faculty" from 20<sup>th</sup> to 25<sup>th</sup> January 2020. So that the management fraternity can feel confident and self-assured while teaching the latest business happenings and scenarios to the students.



- The Department of Management Studies, RIT, and Indian Council of World Affairs (ICWA) have jointly organized the Two Day National Seminar on "Strategic Foreign relations for Sustainable Trade" on 9<sup>th</sup> & 10<sup>th</sup> January 2020. The conference aims at deliberating the various issues and challenges of India's foreign policy in contemporary international relations.

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

- **Dr. T. Mohanasundaram** – 'A Research on Health Care Sector with special reference to Health Insurance in India', International Journal of Recent Technology and Engineering, Vol-8, Issue - 4, ISSN: 2277-3878, November 2019.
- **Dr. T. Mohanasundaram** – 'Do Technology Advanced Modern Banks Outperform Traditional Banks in India? - an Empirical insight', International Journal of Innovative Technology and Exploring Engineering, Vol-9, Issue-1, ISSN-2278-3075, November 2019.
- **Dr. T. Mohanasundaram** – 'Socio-economic conditions of Migrant Labours in Western Tamilnadu', AIMS Journal of Management, January 2020. Vol.5, No.2, pp.103 – 124.
- **Dr. G. Vijaya Kumar** – 'Winning Employees for Work Motivation through Effective Reward Management', Studies in Indian Place Names (UGC Care Journal), ISSN: 2394-3114, Vol-40-Issue-18-February-2020.

#### Paper presentation in International /National Conferences:

- **Dr. Rizwana. M** - Market Potential of Trending Co-living spaces in Bengaluru City, International Conference on 'Emergence of New Business Practices for Growth, Competitiveness & Innovation', Prestige Institute of Management, Gwalior, 28<sup>th</sup> to 30<sup>th</sup> December 2019.
- **Dr. Padmalini** - Market Potential of Trending Co-living spaces in Bengaluru City, International Conference on 'Emergence of New Business Practices for Growth, Competitiveness & Innovation', Prestige Institute of Management, Gwalior, 28<sup>th</sup> to 30<sup>th</sup> December 2019.
- **Dr. Pallavi. B** - 10:157 Social Media Disruptions in HR Practices, International Conference on Recent Innovative Trends in Computer Science and

Applications, RIT, Bengaluru on 25<sup>th</sup> & 26<sup>th</sup> October 2019.

- **Dr. G. Vijaya Kumar** - 10:157 Social Media Disruptions in HR Practices, International Conference on Recent Innovative Trends in Computer Science and Applications, RIT, Bengaluru on 25<sup>th</sup> & 26<sup>th</sup> October 2019.
- **Dr. G. Vijaya Kumar** - Achieving organizational excellence: Role of employee referrals in talent sourcing, 8th International Conference on Managing Human Resources at the Workplace, Shri Dharmasthala Manjunatheswara Institute of Management Development, Mysuru, 6<sup>th</sup> & 7<sup>th</sup> December 2019.
- **Dr. T. Mohanasundaram** – 'A comprehensive study on health care sector with special reference to Health Insurance in India', International Conference on 'Recent Trends and Challenges in Healthcare Informatics', KonguEngg. College, Perundurai, 12<sup>th</sup> & 13<sup>th</sup> December 2019.
- **Dr. P. V. Raveendra** – 'Agility as Strategy for Managing Business School' in International Conference on 'Redefining Human Resource and Marketing Perspectives', SCMS Jain on 28<sup>th</sup> February 2020.
- **Dr. T. Mohanasundaram** – 'India's Foreign Policy - New Challenges' in International Conference at Erode, Tamilnadu on January 30<sup>th</sup> & 31<sup>st</sup> 2020.

#### Guest Lectures Invited:

- **Mr. Ismayil Abubakkar** - Senior Business Development Manager, EDS Technologies- 'Sales and Business Development Essentials' on 19:10:2019.
- **Mr. Ahuja, PCS Securities** – 'Technical Analysis' on 22:11:2019.
- **Mr. Bharat Jain** - Assistant Vice President, Ventura Capital- 'Portfolio Management' on 26-11-2019.
- **Mr. Santhosh Kumar** - Founder & CEO, Group Cyber id- 'Cyber Security' on 04:12:2019.
- **Mr. Sankarsh Chanda, Founder & CEO, Savart** – 'Equity Investment', 04-02-2020.
- **Mr. Pandurang Patkar**, Founder & Director, Future Care BFSI Learning Academy- 'Stock Market Analysis' 10-02-2020.

- **Mr. Vinayak, Trainee, T.I.M.E** – 'Aptitude Training' 18<sup>th</sup> & 19<sup>th</sup> February 2020.
- **Mr. Fril Kumar. L, Assistant Vice President, CARE** – 'Credit Rating' 29-02-2020.
- **Ms. Aishwarya. M, Account Management Lead, Tap Chief** - 'The Harsh Truth of the Real World', 07-03-2020.

#### Guest Lecture delivered by the department faculty:

- **Dr. Rizwana. M** - handled technical session of ICSSR SRC sponsored three day National Workshop on 'Advanced Research Methodology and Statistical Data Analysis for Research Scholars' at Dr. NGP Arts and Science College, Coimbatore on 13-12-2019.

#### Funded Project: Name/s, Title of the project, Funded by, Grant Rs.:

- **Dr. Y. M. Satish** – 'Supply Chain for Collection and Distribution of used cooking oil (UCO) to Bio Diesel production units in Bengarulu City' KSCST, Bengaluru. Grant: Rs. 5000.
- **Dr. G. Vijaya Kumar and Dr. Arunkumar. D. C** – 'A feasibility study on Smart Card ticketing services in public transport with reference to Bengarulu City', KSCST, Bengaluru. Grant: Rs. 5000.
- **Dr. Arunkumar. D. C and Dr. G. Vijaya Kumar** – 'Feasibility study for implementation of water recycling equipment at individual houses with specific reference to Kolar and Chikkaballapur districts', KSCST, Bengaluru. Grant: Rs. 5000.

#### Achievements, Awards/Prizes by Faculty and Students:

##### Faculty:

- **Dr. Y. M. Satish** - Project Guide was sanctioned Student Project titled 'Supply Chain for Collection and Distribution of used cooking oil (UCO) to Bio Diesel production units in Bengarulu City' under 'Student Project Programme-43<sup>rd</sup> series' by KSCST, Bengaluru.
- **Dr. G. Vijaya Kumar, Dr. Arunkumar. D. C** - Project Guide was sanctioned Student Project titled 'A feasibility study on Smart Card ticketing services in public transport with reference to Bengarulu City' under 'Student Project Programme-43<sup>rd</sup> series' by KSCST, Bengaluru.

- **Dr. Arunkumar. D. C, Dr. G. Vijayakumar** - Project Guide was sanctioned Student Project titled 'Feasibility study for implementation of water recycling equipment at individual houses with specific reference to Kolar and Chikkaballapur districts' under 'Student Project Programme-43<sup>rd</sup> series' by KSCST, Bengaluru.
- **Dr. T. Mohanasundaram**, Associate Professor - recieved a Consultancy project from CMV Global Clothings, Trippur.
- **Ms. Narmada S, Mr. Chanikya K, Mr. Kushal B, Mr. Akash G** - were sanctioned Student Project titled 'Supply Chain for Collection and Distribution of used cooking oil (UCO) to Bio Diesel production units in Bengarulu City' under 'Student Project Programme-43<sup>rd</sup> series' by KSCST, Bengaluru.
- **Mr. Chethan Ranga N, Mr. Swaroop T N, Mr. Krishna Raj S, Mr. Yakshath** - were sanctioned Student Project titled 'A feasibility study on Smart Card ticketing services in public transport with reference to Bengarulu City' under 'Student Project Programme -43<sup>rd</sup> series' by KSCST, Bengaluru.
- **Mr. K. Rohit** - secured 1<sup>st</sup> prize in Elocution event at Arunai Engineering College from 04-10-2019 to 10-10-2019.
- **Mr. Devi Prasad** - secured Winner's Trophy in 'INFINI-2019' Invitational International Sports Fest at PES University, Bengaluru from 12-10-2019 to 16-10-2019.
- **Mr. Saurabh Godbole** - secured 'Best All-Rounder' Trophy in 22<sup>nd</sup> Dr. M.S.Ramaiah Memorial State Level Intern Engineering Colleges Cricket Tournament 2019-20 at RIT from 11<sup>th</sup> to 20<sup>th</sup> November 2019.
- **Mr. Deviprasad** - won Winners Trophy in 'KHEL-2020' Basketball tournament at Mount Carmel College, Bengaluru from 27<sup>th</sup> to 29<sup>th</sup> Jan 2020.
- **Mr. Deviprasad** - won Winners Trophy in 'MALLESWARAM CUP-2020' Basketball tournament at Bharath Sports Club, Malleshwaram from 25-01-2020 to 02-02-2020.
- **Mr. Deviprasad** - won Winners Trophy in 'SPIEL-2020' Basketball tournament at St. Joseph College of Commerce, Bengaluru from 08-02-2020 to 14-02-2020.



- **Mr. Deviprasad** - won Winners Trophy in 'MOMENTUM-20' State level Inter Engineering Colleges Basketball tournament at RVCE, Bengaluru from 21-02-2020 to 24-02-2020.
- **Mr. Deviprasad** - won Runners Trophy in 'INCIDENT-20' SLAM Dunk All India Inter Collegiate Basketball tournament at NITK, Surathakl, Mangalore from 27-02-2020 to 01-03-2020.
- **Mr. Saurabh N Godbole** - won Winners trophy in 'Sri Chamaraju Memorial; Inter Engineering Colleges Cricket tournament-2020' at RVCE, Bengaluru from 10-02-2020 to 19-02-2020.
- **Mr. Saurabh N Godbole** - won 1<sup>st</sup> prize in Anaadyanta Management and Techno Cultural National Level Fest at NMIT, Bengaluru on 05-03-2020.
- **Mr. Preetam Singh Subedar** - won 1<sup>st</sup> prize in Anaadyanta Management and Techno Cultural National Level Fest at NMIT, Bengaluru on 05-03-2020.
- **Ms. R. Apoorva, Ms. Swapna K, Ms. Kavya D, Mr. V S Darshan Gowda** - were sanctioned Student Project titled 'Feasibility study for implementation of water recycling equipment at individual houses with specific reference to Kolar and Chikkaballapur districts' under 'Student Project Programme-43<sup>rd</sup> series' by KSCST, Bengaluru.

#### Faculty who obtained Ph.D Degree:



**Mrs. B. Pallavi** - Assistant Professor obtained Ph.D. for the thesis of 'Talent Management Practices in SMEs-A Study with special reference to the machine tool industry', from Bharathiar University, Coimbatore on 20-09-2019 under the guidance of Dr. K H Anil Kumar, Director, Karnataka College of Management, Bengaluru.



**Mr. Arunkumar. D.C** - Assistant Professor obtained Ph.D. for the thesis of 'A study on analyzing determinants of Gold investments in Karnataka', from Bharathiar University, Coimbatore on 15-11-2019 under the guidance of Dr. P V Raveendra, Professor and HOD, Department of Management Studies, RIT, Bengaluru.



**Mrs. Jyothi E Singh** - Assistant Professor 'Role of Behavioural Finance in Investors' Equity Investment Decision with Special Reference to Investors in the Bengaluru City', Visvesaraya Technological University, Belgaum awarded on 08.02.2020 under the guidance of Dr. H N Shivaprasad, Director, Dr. D Veerendra Heggade Institute of Management Studies & Research, Dharwad, Karnataka.

#### DEPARTMENT OF ARCHITECTURE



- Site visit Ulsoor Lake for M.Arch, Students as part of Landscape on 25.11.2019
- Site visit Assemblite Fixture Factory for 7<sup>th</sup> Semester students of B.Arch on 29.11.2019. Site visit Bhudiguppe Village for M. Arch Students as part of Landscape on 21.10.2019. Co-coordinators: Prof. Rajshekar Rao, Asst. Prof. Ranjitha.



- Site visit Cubbon Park for 1<sup>st</sup> sem students of B. Arch on 21.10.2019.
- Site visit Lalbagh for 1<sup>st</sup> Semester students of B. Arch on 23.10.2019.
- Site visit Nallur Village for M. Arch. Students as part of Landscape on 24.10.2019.
- Site visit RWH theme park for 3<sup>rd</sup> Semester students of B. Arch on 07.11.2019.

- Site visit GVK Campus for M. Arch Students as part of Landscape on 13.11.2019.



- INSPIRIT is the annual design convention hosted by the students of School of Architecture – Ramaiah Institute of technology and was held on 28<sup>th</sup> and 29<sup>th</sup> of Feb 2020. INSPIRIT is a learning platform for the architecture students. The theme for this year was 'REFLECT'.

It is a two day celebration of architecture, a display of creativity, workshops, seminars, panel discussion, trophies, events and architectural design. INSPIRIT 2020 was inaugurated by Ar. Arjun Nambisan of Balan and Nambisan Architects. The keynote speaker and guest speakers of this event were Ar. Hiren Patel of Hiren patel architects, Gujarat and Ar. Senthil Kumar Doss of Play architects, Bengaluru.



- Five Day FDP at RIT on 'Integrative Approach Towards Pedagogy of the Design Studio' organized

by Council of Architecture Training Program in collaboration with School of Architecture, M S Ramaiah Institute of Technology, Bengaluru from 6.01.2020 to 10.01.2020. Convener: Prof Jayashree Deshpande, Director COA-TRC, Pune, Prof, Pushpa Devanathan (HOD, SOA-RIT)



- Ar. Sebastian Joseph from Avani Institute of Design conducted a three day Model Making Workshop for the Semester 2 students from 5.3.2020 to 7.3.2020 organized by Assoc. Prof. Tejaswini H and Asst. Prof. Megha Ann.

#### Paper presentation in National / International Conferences:

- Jotirmayi Chari, Dr. Mona Lisa, Yashas Hegde – 'Impact of Airport Development on Land Use and Spatial Flows in Peri Urban Areas: Case study KIAB, Bengaluru ', Asian Regional Conference on Peri-Urbanization, Indian Institute of Science Education and Research and Minto Hall, Bhopal, Dec 2019, pp. 17<sup>th</sup> - 20<sup>th</sup>, 2019.

#### Guest Lecture's - Invited:

- **Ar. Brinda Shastri** - 'From Data to Decisions' on, 1.10.2019.
- **Dr. Guruprasad Y K**, Associate Professor Civil, RIT – 'Concepts of Structures in Construction' on 23.10.2019.
- **Dr. Mohan Kumar and Dr. Seetharam**, Faculty at GKV - 'Plants adaptation, nutrition , plant growth problems', on 11.11.2019
- **Ar. Pramod**, Architect at VbT – 'Construction methodologies in Practice' on 13.11.2019
- **Armstrong company representative** – 'False Ceiling' on 20.11.2019



- **Ar. Vishwanath**, and Associates – 'Art of Designing Auditorium' on 22.11.2019
- **Dr. Amit Singh** – 'Environmental Impact Assessment' on 02.12.2019
- **Ar. Jobin Varughese** - 'Habitat of Birds in Lake Ecosystem' on 21.12.2019
- **Ar. Sudhir Chougule** - 'Site Responsive Design' on 18.02.2020.
- **Ar. Vishwas Hittalmani** – 'Behaviour of Sound in in Enclosed Spaces' on 18.02.2020.
- **Ar. Jackson Jolly** – 'Architecture Evolution System' on 19.02.2020.
- **Mr. Selvaraj** - owner RJ Furnitures, 'Wood Joinery Details' on 04.03.2020.

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

- **Aditi U and Keerthana Reddy** - from 6 'S' Semester won the Grey Matters(quiz) at the Design Uru held between October 13<sup>th</sup> and 18<sup>th</sup> in Bengaluru.



- **Sanghamitra Saha** - from 2 'T' won 2<sup>nd</sup> prize in 'On Spot Painting' competition in Kalanjali inter-college fest 2019 hosted by MVIT on 18<sup>th</sup> and 19<sup>th</sup> October 2019. She also won 2<sup>nd</sup> prize in ' Cartoon Making ' competition and 2<sup>nd</sup> prize in 'Poster Making' competition in the VTU youth festival "INSIGNIA" 2019 held at SDM College of Engineering and Technology, Dharwad from 6<sup>th</sup> to 9<sup>th</sup> November.



- **Spoorti Sridhar** - from 8 'T' winner of Miss. South India Queen 2019 held on October 23<sup>rd</sup> in Bengaluru.



- **Tanvi** - from 4 'S' won the bronze medal in Judo - VTU state tournament, bronze medal in Taekwondo - VTU state tournament. She was the runners up in Badminton at VTU tournament Zonal Level and placed 4<sup>th</sup> place in VTU state level.
- **Manali P** - from 2 'S' won Powerlifting bronze medal in VTU state tournament.
- **Sanghamitra Saha**, from 2 'T' - Got selected among 20 artists from Bengaluru to put up her artworks for the exhibition in KARNATAKA CHITRAKALA PARISHAD. This art exhibition was conducted by the SOULSPIRE ARTISTS GROUP from 17<sup>th</sup> to 23<sup>rd</sup> Feb 2020.
- The Annual NASA Convention was conducted from 7<sup>th</sup> Feb to 10<sup>th</sup> Feb at Innovative Filmcity, Bidadi. SOA RIT took a delegation of 5 students. The students participated in various workshops and events during the convention.
- SOA RIT also got shortlisted in the Reubens Trophy which got our college rank to 11 nationwide.

## DEPARTMENT OF SPORTS





- The felicitation function of VTU sports achievers for the year 2017-18 and 2018-19 was held on 19<sup>th</sup> October 2019. Around 30 VTU engineering, college principals, and more than 350 sports achievers from all over Karnataka have attended the program and collected awards from the chief-guests. Smt. Pramila Aiyappa, Ekalavya Awardee, International Athlete, Dr. Karisiddappa, Vice-Chancellor, VTU, Belagavi, Prof. A S Deshpande, Registrar of VTU, Belagavi, Dr. Rajesh Y H, Director of Physical Education, VTU, Belagavi, and Dr. NVR Naidu, Principal, RIT & Dean Faculty of Engineering, VTU, Belagavi were present.



- The department organized 22<sup>nd</sup> Dr. M S Ramaiah memorial cricket tournament 2019-20 during 11<sup>th</sup> -20<sup>th</sup> Nov 2019. Around 24 teams have participated in the tournament. RIT emerged as the winners and RVCE as runners in the tournament. Sri. MR Seetharam, Vice-Chairman, GEF and Director, RIT congratulated the College Cricket Team.



- The department organized an intra-branch Pro-Kabaddi (Men & Women) tournament on 13<sup>th</sup> Nov 2019. 11 Men teams 2 Women teams took part in the tournament. Md. Shaheer won in men's category. Umesh Barker R won the runners trophy. Jnanashree S Datta won in women's category. Chandana Patel M won the runners trophy. In the men's category, Umesh Barkar won the best rider award, Prajwal C won the best catcher award and Md. Shaheer won the best all-rounder award. In women's category,

Divya K won the best rider award, Amrutha Patil won the best catcher award and Jnanashree S Datta won the best all-rounder award.

- VTU single-zone state level Taekwondo competition was held at Global Academy of Technology, Bengaluru on 30<sup>th</sup> & 31<sup>st</sup> Oct 2019. In men's category, Md. Mushail Pasha won a silver medal in the +87kg category, Tahir Mulla won the bronze medal in the 80kg category and Zaid Hossain won the bronze medal in 63KG category. In women's category, Keerthana T won the bronze medal in 67kg category and Cheruku Tanvi Reddy won the bronze medal in the +73kg category.
- Ramya B S. won the silver medal in Javelin throw event in VTU state level intercollegiate athletic meet 2019-20 held at GNDCE, Bidar from 22<sup>th</sup> -25<sup>th</sup> Oct, 2019.
- Karn Dhar. Won silver medal in 105kg men's category in VTU state-level single-zone competition held at NMAMIT, Nitte during 30<sup>th</sup> - 31<sup>st</sup> Oct 2019. In women's category, Anisha B S. won the silver medal in 57kg category, Keerthana S, won the bronze medal in 63kg category and Manali P won the bronze medal in 84kg category.
- Avanthi A, Naini Holla M S, Deekasha K P, Pavithra H Prasad - emerged as winners in the VTU Bengaluru central zone tournament held at Atria Institute of Technology, Bengaluru during 16-17 Nov 2019. They secured winner's trophy in Intra GEF Table Tennis tournament held at Dwaraka auditorium on 14<sup>th</sup> & 15<sup>th</sup> Nov 2019. They also secured second runners trophy in VTU state level inter zone tournament held at BMSCE, Bengaluru, during 26<sup>th</sup> - 27<sup>th</sup> Nov, 2019.
- In men's table tennis category, Mayank Kumar, Rithvik Shetty, Ranjan Aakash B K, Ganesh Manjunath R, S Birendra Kumar, secured runners trophy in intra-GEF Table Tennis tournament held at Dwaraka auditorium on 14<sup>th</sup> & 15<sup>th</sup> Nov 2019.
- Winners in men's basketball and Runners in women's badminton, Infini-2019, Annual International Sports Fest, organized by PES University held during 12<sup>th</sup> -16<sup>th</sup> Oct 2019.
- Winners in men's football in Kalanjali-2019 state-level inter engineering college tournament, organized by Sir. MVIT, Bengaluru during 18<sup>th</sup> - 19<sup>th</sup> Oct 2019.



- Ghanashyama Prabhu, Second Semester, EIE, represented VTU and Secured Bronze medal in 500+D Rink Race in All India Inter University Roller Skating Competition -2019-20 held at RIMT University, Punjab from 11<sup>th</sup> to 14<sup>th</sup> February 2020.



- Women's Volleyball team secured Winners Trophy in VTU Bengaluru Zone 2020-21 tournament held at KIT, Tipaturu during 13<sup>th</sup> -14<sup>th</sup> March 2020, against NMIT, Bengaluru.



- Men's Basketball team secured runners trophy in 'Khel-2020' state-level invitational intercollegiate tournament -2020 organized by Mount Carmel College, Bengaluru from 27<sup>th</sup> to 29<sup>th</sup> Jan. 2020 against Christ University.

- Men's Basketball team secured winner's trophy in 'Malleswaram Cup-2020' state-level invitational intercollegiate tournament-2020 organized by Bharath Sports, Malleswaram from 25<sup>th</sup> January to 2<sup>nd</sup> February 2020 finals against Jain University in All India Inter-University Champions-2020.
- Men's Basketball team secured winner's trophy in 'Spiel-2020' invitational intercollegiate basketball tournament - 2020 from 8<sup>th</sup> - 14<sup>th</sup> February 2020 organized by St. Joseph's commerce college against BMSCE, Bengaluru.
- Men's Basketball team secured winner's trophy in 'Momentum - 2020' inter engineering colleges basketball tournament-2020 during 21<sup>th</sup> -24<sup>th</sup> Feb 2020 against RVCE, Bengaluru.
- Men's Basketball team secured winner's trophy in 'Incident-20' invitational all India intercollegiate basketball tournament-2020 from 27<sup>th</sup> Februry to 1<sup>st</sup> Mar 2020 organized by NITK, Surathkal, Mangalore against Kerala Varma University.



- Men's Football team secured winner's trophy in 'Momentum-2020' inter engineering colleges football tournament-2020 during 21<sup>th</sup> - 24<sup>th</sup> Feb 2020 against RVCE, Bengaluru.





- Women's team secured runners trophy in All India invitational inter collegiate football (women) tournament organized by St. Francis DE sales college, Bengaluru on 6<sup>th</sup> March 2020 against Kerala team.



- Men's cricket team secured winner's trophy in Sri. Chamaraju memorial cricket tournament-2020 from 10<sup>th</sup> to 20<sup>th</sup> Feb 2020 against RVCE and organized by RVCE, Bengaluru.



- Women's Hockey team secured runners trophy in 'Khel-2020' state level invitational inter collegiate tournament-2020 organized by Mount Carmel college, Bengaluru during 27-29 Jan 2020 against Christ University.



- Men's Badminton team secured winner's trophy in RVCE 'Momentum-2020' inter engineering college's badminton tournament-2020 during 21-24 Feb 2020 against NMIT, Bengaluru.



- Women's Badminton team secured winner's trophy in 'Anaadyanta-2020' national annuals techno cultural and management fest badminton tournament-2020 against NMIT held during 6-7 Mar 2020 organized by NMIT, Bengaluru.



- Men's Tennis team secured runners trophy in 'Spiel-2020' invitational inter collegiate basketball tournament-2020 during 8-14 Feb 2020 against SJCC, organized by St. Joseph's commerce college.



- Women's Tennis team secured runner's trophy in RVCE 'Momentum-2020' inter engineering college's tennis tournament-2020 against VVIET, Mysore during 21-24 February 2020.



## ENTREPRENEURSHIP DEVELOPMENT CELL



- **Idearise workshop** – 6<sup>th</sup> February 2020: Entrepreneurship and start-ups sound great as buzzwords but without proper thought and focus they are as good as the water mirage on the road. To remove this mirage and create a real oasis of talent, we at EDC RIT bring to you 'IDEA-RISE'. IDEA-RISE is an entrepreneurship event which encourages students from various departments and backgrounds to pitch in their ideas, identifying a real-world problem something as simple as getting food at your doorstep which we can't imagine it anyway besides Zomato or Swiggy now. The panel of judges for the workshop include Vijetha Shastry from TIE Bengaluru, Mentor from Active Startup and mentor from crowd product. They emphasize the problem, solution for that problem and what one means by a good idea. The outcome of the workshop was that the attendees got guidance on how to convert an idea into a revenue model. It also provides current market exposure and management technique which should be implemented to being an entrepreneur.



- **Proposal for a collaboration and MoU with SINE, IIT Bombay** - 21<sup>st</sup> January 2020:

The agenda of the meet was to collaborate with SINE IIT BOMBAY regarding mentorship for entrepreneurship and incubation. The honourable members of the meet were Principal of RIT, Chief Executive of RIT, Dean of RIT, HOD of CSE Department.

The presenter and the representative from SINE were Mr. PRASAD SHETTY. The main motto behind meet was to frame guidelines and procedures for incubation. Establishing a new technological business incubator. The other objective decided was to send proposals to the various government funding agencies.

There were certain proposed modes of collaboration or partnership were discussed. The partner will offer the following amenities. Some of them were program promotion, assist in the selection process. They will also help in outreach, campaign, social media and website mentions. Access to industry and client network will be given. Access to a network of mentors or consultants or speakers and investors will be provided. Several recommendations of startups for the program will be given. SINE as a partner will enable depending on offerings. They were visibility/ branding as a program partner, speaker slot during training, participation in networking event and participation in DEMO DAY.

The outcomes of the meet were to create section and company of 20,000 square feet which will have 15 small rooms and co-workers space, seed funding from college, dedicated team, a good team of mentors, sourcing the applications, selecting the themes, based on requirement, call for applications, guidelines for running an incubator. Also, IIT MADRAS has several organizations from which reference should be taken and can be applied to own company.



- **Empyreal 2020 Volunteer Drive**, 03-02-2020: The Entrepreneurial Development Cell of Ramaiah Institute of Technology had their first volunteer drive of the decade on 3<sup>rd</sup> January 2020, for the well-known E week of the college called Empyreal 2020. The meet started at 4:30 PM, at DES Hi-Tech Seminar Hall. Even though it was the time off after college and the volunteers were tired from the day's work, the amount of excitement they had about the

fest was visible by the turn up in the Hall. The main agenda of the drive was to introduce the first-year students to the idea of Empyrean and explained how this festival is a big part of the E Cell working, throughout the year.

## DEPARTMENT OF EXTRA-CURRICULAR ACTIVITIES



- **Dr. M.S. Ramaiah Memorial Parliamentary Debate 2019** - MSRMPD 2019 was organized on 14<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup> September. The tournament played host to some of the best debating minds in the nation. After five preliminary rounds, 16 teams made it to the knockout rounds. At the end of a gruelling quarterfinal, semifinal and final, VinamreDhar and Abhishek Singhania's team from PES emerged victorious. Some of the country's best debaters were part of the adjudication pool for the tournament and the Chief Adjudicators for the tournament were Deepan Kumar from Taylor's Institute Malaysia, Vihasini Gopakumar from NTU Singapore, Pavan K Rao from MSRIT, Bharath Gururaghvedran from School of Law Christ University and Bobby Andika Ruitang from University of Indonesia.



- **SHOUTOUT 12.0** was held over the 12<sup>th</sup> and 13<sup>th</sup> of October over the weekend. It saw an immense variety of genres being performed on the stage. Action, adventure, satire, romance, tragedy and most notably comedy are a few of the words that can be used as umbrella terms to describe the skits and short plays enacted. With 24 skits on the 12<sup>th</sup>, 14 from Theatrix and 10 from Chiraranga, the first day was full of entertaining acts. Being only 15 minutes long did not stop them from impacting the audience.
- **Dr. M S Ramaiah Memorial Quiz Fest 2019** - We had celebrity Quiz Masters like Arul Mani and Thejaswi Udupa as a part of our event, who made it a fantastic environment for quizzing. The fest began on 18<sup>th</sup> October with senior members of the quiz club, namely, Parv Modi and Hari Herekar hosting an extremely fun Potpourri. Followed by a brilliant Sci-Biz-Tech quiz in the afternoon by Arul Mani. We thank sir for the informative and interesting quiz. Day 2 was just even more gripping. October 19<sup>th</sup> was Saturday morning and was truly wonderful to see so many turn up. But then, enduring the Bengaluru traffic was worth it for an excellent Food and Culture quiz by Tejaswi Udupa. This was followed by #One Of Our Own once again hosting the General quiz, Thejaswi Udupa.



- **20<sup>th</sup> ANNUAL VTU YOUTH FESTIVAL "INSIGNIA"** - VTU fest 2019 was held from November 6<sup>th</sup> to November 9<sup>th</sup> at Shri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad. RIT was represented at the fest by a selected contingent of 42 talented students, under the guidance of Dr. K R Phaneesh and Dr. Sanjay H S of the Department of Extra-Curricular Activities. At the festival, there were five categories of competitive events, namely, Dance, Music, Fine



Arts, Literary and Theater, under which there were several events like 'Western Group Music', 'Indian Group Music', 'One Act Play', 'Skit', 'Mime', 'Elocution', 'Debate', 'Cartooning', 'Clay Modeling' etc. We participated in 24 events out of 25 events, making our contingent one of the most diverse contingent at the fest. RIT was Crowned Runner-up Champions among 95 Institutions which participated in the Fest. In fact, our institutions missed being CHAMPIONS by a solitary point. However RIT bagged the highest number of medals (10) among all Participant Collages.

### MSRIT ALUMNI ASSOCIATION



- Shri Krishna P Godasi Scholarship instituted by Sri Ankineedu Maganti (a distinguished alumnus and MD Soma Enterprises) and his friends, in the memory of their Late friend Shri Krishna P Godasi were awarded on 29<sup>th</sup> February 2020 at the Institute. Mrs Radhika Maganti, wife of Shri Ankineedu Maganti and Sri B Venkat, alumnus were present. Full Tution Fee was provided to 31 students under this Scholarship.



- Merit and Means Scholarships in association with Woodkraft Foundation were awarded on 29<sup>th</sup> February 2020. Shri Satish Chand Goel (distinguished alumnus and Chairman Woodkraft) and his son

Shri Karan Goel were present in the program. A total of 67 students were provided Rs 10,000/- each under this scholarship this year. Ninety students were awarded the Scholarships mentioned above during this program. Sri Tallam Venkatesh, President Alumni Association, Sri B S Ramaprasad, Chief Executive, Gokula Education Foundation (Engg), Sri G Ramachandra, Chief of Finance, Prof C G Puttappa, Vice Principal and Sri K Kannan, Secretary Alumni Association were also present and awarded the Scholarships.

- **Project funding:** The association provided a funding of Rs 1.5 lakh only towards 24 UG and PG project work across all departments.
- **Bus pass Scheme:** Under this scheme, 51 Students were provided a total amount of Rs 76,500/- towards making Bus Pass.

### PLACEMENT & TRAINING DEPARTMENT

#### The main Highlights-2019 batch:

325 Companies visited & 1346 offers made. This is all put together i.e., MBA, MCA, M.Tech & BE.

- 37 startup companies on campus for recruitment drive.
- Nearly 33 companies are first time visitors.
- Campus selections by Armed Forces.
- Overseas campus recruitments.
- Highest package 40.63 LPA.

#### Achievement:



- Placement Officer awarded by ECONOMIC TIMES. in the field "EXCELLENCE IN YOUTH EMPOWERMENT " The Award was presented by Bollywood actress Ms. Raveena Tondon.



## STUDENTS SELECTED BY TARGET CORPORATION – DIVERSITY RECRUITMENT DRIVE

CTC: 11.2 LPA



**MANASVI BHAT K**  
USN-1MS16CS054



**MISKIN DASH**  
USN-1MS16CS055



**RANJANA VENKATESH**  
USN-1MS16CS074



**ANIKSHASHETTY**  
USN-1MS16EC013



**DEEPIKA G**  
1MS16IS021



**SWATHISHATHWAR**  
USN-1MS16IS104



**SAMPRITA IYER**  
USN-1MS16TE044



**SREEPRIYA S**  
USN-1MS16TE054



**M SOWJANYA**  
USN-1MS17EC414



**RITHIKA BELLAD**  
USN-1MS16CS131



**AMRUTA**  
USN-1MS16EC012



**NIDHI S**  
USN-1MS16IS045



**LAYA SURENDRAN**  
1MS16CS128

### The main Highlights-2020 batch :

204 Companies visited & 932 offers made. Nearly 40-45 companies put a hold on recruitments because of Covid-19. Nearly 30-40 companies are yet to declare the results.

- 32 startup companies on campus for recruitment drive.
- Nearly 34 companies are first time visitors.
- Campus selections by Armed Forces.
- Overseas campus recruitments.
- Highest package 43.17 LPA.

## 2021 BATCH OF M. TECH STUDENTS SELECTED BY INTEL

CTC: 12 LPA



**POOJA KARIYAPPA**  
USN:1MS19LVS08



**CHONGTHAM PANKAJ**  
USN:1MS19SSE03



**NIKHIL JAIN C S**  
1MS19SCS16



**MANISHA PAI**  
USN:1MS19SCS10



**IQRAMARYAM IMRAN**  
USN:1MS19SCS05



**PATIL\_VASUNDHARA**  
USN:1MS19SSE12



**SIMRAN**  
USN:MS19SCS21



**RASHMI S PATIL**  
1MS19LVS11



**C MONISHA**  
USN:1MS19SCS03



**POOJA S**  
USN:1MS19SCN08



**MONALIMAITY**  
USN:1MS19LVS04



**SRISHYLA K**  
USN: 1MS19SSE18



**ASMA AHMED**  
USN:1MS19LEC06



**RAGHUTTAM K KULKARNI**  
USN:1MS19LVS10



**VAIBHAVIGS**  
USN:1MS19SCS22



**SRINATHA K N**  
USN:1MS19LVS14



**CHITRALEKHA**  
USN:1MS19SCS04



**ASHWINI S D**  
USN:1MS19SCS02



**AISHWARYA S KULKARNI**  
USN:1MS19SSE01



**LISHA KAMALA.K**  
USN:1MS19SCS09



**SUSHMITA HAWALDAR**  
USN:1MS19LVS15



**VAISHNAVIAS**  
USN:1MS19SSE22



**RAGHAVENDRA A S**  
USN:1MS19LVS09



**NAMRATHA C**  
USN:1MS19LVS05





**MAHAMMED HUSSAIN**  
USN:1MS19LVS02



**MANJUNATH PATIL**  
USN:1MS19LVS03



**VIVEKH\_N**  
USN:1MS19SCS23



**ANIRUDHA RAO**  
USN:1MS19LEC04



**DARSHINI. P DARSHINI**  
USN:1MS19SCN04



**MEGHANA MOHAN**  
USN:1MS19SSE09



**SUPRIYA C GOWDA**  
USN:1MS19SSE19



**MEGHANA GOWDA**  
USN:1MS19MCM05



**SYEDA AMENA SAMREEN**  
USN:1MS19LVS16



**PAVAN ACHAR**  
USN:1MS19LVS07



**SUPRITHA RAO CS**  
USN:1MS19LDC10



**NAVYASHREE**  
USN:1MS19LDC06



**NANDA KISHORE**  
USN:1MS19SCN06

## New Appointments:

### DEPARTMENT OF CIVIL ENGINEERING



**Mr. Gurunandan M** - joined as an Assistant Professor in November 2019. He obtained his B.E (Civil Engineering) and M.Tech (Structural Engineering), from Visvesvaraya Technological University in the year 2017 and 2019 respectively. Before joining RIT, he has served as Senior Laboratory Assistant at IIT Delhi for four months. His areas of interest include construction materials, analysis and design of structures and structural reliability. His career goals include - contributing effectively to student's comprehensive technical learning and personality development, apart from proactive involvement in solving research problems.



**Ms. Lakshmi H S** - obtained her Master's Degree from (VTU) in Structural Engineering in the year 2014 after obtaining the Bachelor's Degree from Dayananda Sagar College of Engineering in 2012. She has 6 years of teaching experience in the field of Civil Engineering. At present, she is pursuing her Ph.D. in Civil Engineering in the field of Masonry Structures from VTU-RRC. Her areas of interests, Structural Engineering, design, and drawing of steel structures, Concrete technology, Masonry structures, Fiber-reinforced mortar.



**Dr. Sridhar D.S** has joined as a Professor in the Department of Civil Engineering, RIT on 14<sup>th</sup> February 2020. He graduated from NIT Surathkal in 1986 in Civil Engineering and obtained a Ph.D. from the Indian Institute of Technology, Bombay in 1995 in Dynamic Soil-Structure Interaction. He has more than 25 years of industry experience. Worked in various companies such as Gammon India Ltd, Tata Consulting Engineers, Engineering Analysis of Centre of Excellence Pvt. Ltd. (Joint Venture between TATA and GE), Tata Consulting Services, and CSM Software Pvt. Ltd. acquired by SOLIZE Corporation a Japanese Group of company.

### DEPARTMENT OF INFORMATION SCIENCE ENGINEERING



**Ms. Ashwitha A** - pursued Bachelor of Engineering from Visvesvaraya Technological University, Belgaum in 2011 and Master of Engineering from Bengaluru University in the year 2013. She is currently pursuing a Ph.D. from Visvesvaraya Technological University. She has published 3 research papers in reputed international journals including SCI & Web of Science. Her main research work focuses on Data Analytics, Data Mining, IoT and Computational Intelligence based education. She has 6 years of teaching experience and 2 years of research experience.

### LIBRARY AND INFORMATION CENTRE



**Dr. M. Ebenezer Selvakumar** - appointed as a Chief Librarian. He has 26 years of experience as a Passionate Librarian, Researcher, and guided to many UG/PG students from various institutions. He has published several papers in various National and International conferences and in reputed Journals. He has also participated as Speaker, Reviewer, Resource Person and Judge as a Session Chair in various conferences. He has held positions as Disciplinary Committee Head in various institutions and Additional In-charge of Students Information Centre (SIC).

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'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.

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'If a country is to be corruption free and become a nation of beautiful minds, I strongly feel there are three key societal members who can make a difference. They are the father, the mother and the teacher'.

- A.P.J. Abdul Kalam

## Highlights of Ramaiah Institute of Technology

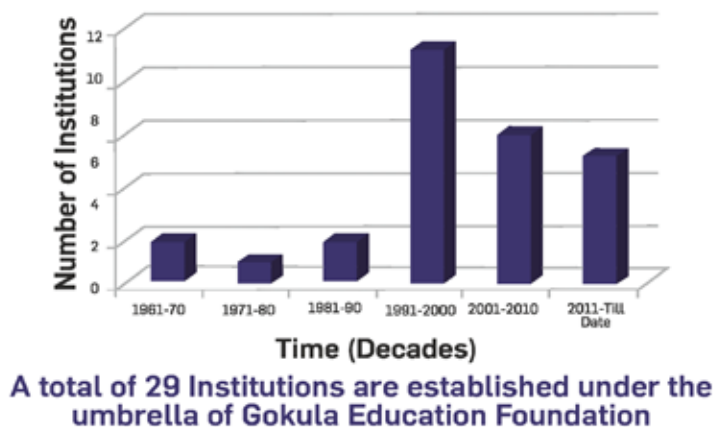
- Strategically located in the heart of Bengaluru City offering excellent connectivity and convenience.
- Proven track record spanning 58 years, in Engineering Education.
- Outstanding placement record up to 90-95% accomplished year on year.
- Faculty-Student the ratio of 1:15 among the best in the industry.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



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