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Sampige

A quarterly News Bulletin of RIT

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Principal

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Professor & HoD, Dept. of Chemistry

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GREETINGS!

It offers me great pleasure to connect with all our beloved readers of Sampige, a quarterly News Bulletin of Ramaiah Institute of Technology which we keep the college community and beyond abreast of happenings, developments and the great strides accomplished through our institution. I wholeheartedly congratulate

to my colleagues who obtained Ph.D. degree recently and those who achieved academic excellence, students who got prizes in the state, national and international level competitions. I welcome to all newly appointed staff to RIT.

Once again all efforts were made to gather information about numerous activities held in individual departments and their achievements effectively considering that we don't forget this News Bulletin as an effective tool of communication. I would respect to all our faculty and staff for their valuable and meaningful contributions. Sampige a quarterly News Bulletin of RIT welcome your recommendations and comments.

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



Friends,

It gives us an immense pleasure, joy and satisfaction to place before the first issue of Sampige, a quarterly News Bulletin of Ramaiah Institute of Technology of this year 2019. In this News Bulletin, we have highlighted significant achievements of faculty and students. The editorial Board would like to place on record our gratitude and heart full thanks to all the Department Heads, and Section Heads, who have contributed at large to this News Bulletin. The success of Sampige depends on your valuable response. Please free to offer any suggestions for the improvement of News Bulletin. Looking forward to your continuous support in the upcoming issue.

With best wishes.

Dr. B. M. Nagabhushana

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, access to thousands from across India and abroad, facing a lack of opportunity to pursue higher education.

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

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

HEARTY CONGRATULATIONS!

Dr. N. V. R. Naidu, Principal, Ramaiah Institute of Technology has been nominated as 'Dean of Faculty of Engineering' of Visvesvaraya Technological University, Belgaum for the period 2019 to 2022.

Presentation by Maj. Gen. Charles Frank Bolden, Jr., Ex-Administrator, NASA Organized by RIT in association with US Consulate, Chennai on 7th March 2019



- On 7th March 2019 **Maj. Gen. Charles Frank Bolden, Jr.** delivered a presentation on "Engineering Challenges looking to future Space Exploration and Travel" at Ramaiah Institute of Technology. He addressed the students of Ramaiah institutions and also held interactions with students of RVCE, BMSCE, BNMIT, NMAMIT and PES University through Direct Video Conferencing. This event was streamed live on the webpage of the institute. VTU e-Shikshana and in social networking platforms. This event immensely benefited the students across India as **Maj. Gen. Charles Frank Bolden, Jr.** has wide experience in the domains of technology and policy making.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Department of Electrical and Electronics, Electronics and Instrumentation Engineering in collaboration with VI Solutions Pvt. Ltd, Bangalore organized One Week Workshop on "Connecting Lab VIEW to the Industrial IoT- A Hands-on Approach", from 28th Jan-1st Feb 2019. The workshop covered the introductory and advanced topics of IIOT. It enabled users to quickly develop IIOT based applications for monitoring and control using National Instruments Tools. The resource persons were from VI solutions and National Instruments.



- Department of Electrical and Electronics Engineering organized a three-day Faculty Development Programme on "HVDC Transmission Systems-Recent Trends", from 21st 23rd March, 2019, as a part of funded research project form CPRI, Bangalore. The workshop focused on various concepts of LCC-HVDC and VSC-HVDC systems. The experts were from IIT Bombay, ABB, Siemens, CPRI and Power grid.



Consultancy projects

Dr. Pradipkumar Dixit, Professor Principal Investigator for the following consultancy project entitled.

- Design & Development of IVG and HCG Systems at CABS funded by Centre for Air Borne Systems, Bengaluru, for the amount Rs. 44.49 Lakhs. Duration- November 2018 - November 2021.
- Lightning Protection Design of Quartz/Cyanate Ester Radome for LCA for AESA Radar, funded by Advanced Systems Laboratory (DRDO), Hyderabad, for the amount Rs. 23.33 Lakhs. Duration February 2019 - August 2021.
- Development of Prosumer driven Integrated Smart Grid, funded by DST, New Delhi, for the amount Rs.33.32 Lakhs. Duration July 2018 - June 2021.

Publications

- **Ashwath Kumar Shetty** and **Chandrashekhar Badachi**, "SPWM based Hybrid Converter for Nano Grid Applications", i-Managers Journal on Electrical Engineering, DOI:10.26634/jee.12.1.14766, 12(1), pp 1-9, July - Sep 2018.

Guest lecturers delivered by the department faculty

- **Dr. Premila Manohar** : Overview of HVDC Transmission Systems on March 21st as part of the three-day Faculty Development Programme on "HVDC Transmission Systems - Recent Trends", from 21st -23rd March 2019.
- **Dr. Pradipkumar Dixit** : Course Outcomes writing, mapping & Bloom's Taxonomy, attainment of course outcomes and Program Outcomes, NAAC Process and SSR filling on 12th and 15th February, as a part of Five-day workshop on NBA & NAAC Accreditation Process conducted under Margadarshana scheme of AICTE, 11th to 15th February 2019, at MITS, Madanapalle.

Guest lecturers arranged in the department

- **Dr. Asis Nasipuri**, Professor and chair, Department of Electrical and Computer Engineering, University of North Carolina, Charlottes, USA delivered a talk on "Low Power Wireless Sensor Networks" on 21st February 2019.

- **Mr. Suresh Babu C**, Assistant Director, Power System Training Institute, Bangalore delivered a talk on "Renewable Energy Grid Integration" on 1st March, 2019.
- **Mr. Pradikumar. A**, Senior Manager, Yashkawa (India) Pvt. Ltd. delivered a talk on "Basics of drives and Power Electronics" as part of course for M.Tech (CAID) students on 29th March 2019.

Industrial Visits



- Department has organized an Industrial visit for M.Tech (CAID) students to Yashkawa (India) Pvt. Ltd. on 16th, January 2019.



- Faculty of Electrical and Electronics Engineering Department along with M.Tech students visited "IMTEX-2019" An Exhibition organized by Indian Machine Tool Manufacturers Association on 26th January 2019 at BIEC, Bangalore.

Student Achievements

- **Vignesh.P, Himon K and Shivam M**, part of the MSRIT Formula One Racing Team STIER which secured 2nd in 4th Formula Green Event Organized by Indian Society of New Era Engineers at Buddh International Circuit, Noida on February 2019.



Chalukya. B part of the MRSIT Formula One Racing Team which secured 1st place in Wheel Dismantling and Endurance Test events at Bharath Formula Carting championship organized by CADD Technologies, Coimbatore, March 2019.

Faculty who obtained Ph.D Degree



Dr. Kodeeswaran Kumaran, Assistant Professor was awarded a Ph.D. degree for his research work titled "Investigation of Interconnection of Micro wind Turbines using Multilevel Inverters"

by National Institute of Technology (NIT), Surathkal, Karnataka, November 2018.

DEPARTMENT OF MECHANICAL ENGINEERING

Publication in (National/International) Journals

- **Sanjay MR** – 'Physico-Chemical and Thermal Properties of Untreated and Treated Acacia Planifrons fibers as Composite Reinforcement', ELSEVIER, Materials Letters, 240, pp. 221-224, 2019.
- **Venkatarao NR, Mohandas K N** - 'Sliding wear behavior of plasma sprayed NiCrAlY-WC based composite coatings on AA5083 alloy', International Journal of Composite Materials and Matrices, Vol.4, N2, 2018, pp 21-26.

• **Guest Lecture delivered by the Department Faculty**

- **Dr. Jaya Christian** - 'Research opportunities in additive Manufacturing materials and its applications', 5 Days FDP on Research opportunities on Materials and Manufacturing, Dayananda Sagar Academy of Technology and Management, Bangalore, 16th -20th January 2019.
- **Dr. Sunith Babu L-** 'Research opportunities in Composite materials', 5 Days FDP on Research opportunities on Materials and Manufacturing, Dayananda Sagar Academy of Technology and Management, Bangalore, 16th -20th January 2019.
- **Dr. Sridhar B.S** - 'Synthesis and characterization of asbestos-free carbon nanotube reinforced epoxy based brake liner material', 5 Days FDP on Research opportunities on Materials and Manufacturing, Dayananda Sagar Academy of Technology and Management, Bangalore, 16th -20th January 2019.
- **Dr. Vishwanath Koti** - 'Synthesis and Characterization of Carbon nanotube reinforced copper composites', 5 Days FDP on Research opportunities on Materials and Manufacturing, Dayananda Sagar Academy of Technology and Management, Bangalore, 16th-20th January 2019.

Achievements of Faculty/Students

- **Dr. Sanjay MR**, Assistant Professor, Department of Mechanical is selected as a team member for world's prestigious research program of DAAD Academic exchange-PPP Programme (Project-related Personnel Exchange) between Thailand and Germany.
- SAEINDIA COLLIGATE CLUB OF RIT has formed in Dec 2017, with 92 club members including 2 faculty members. Mr. Gururaj Lalagi, and Mr. Lokesha K. The club formed three different teams called VOLANTE, STIER RACING, AND VELOCITY. The agenda of the club is to make students to actively participate in the automotive competition at the international levels like BAJA SAE, SUPRA SAEINDIA, AERO DESIGN, FORMULA HYBRID, FORMULA SAE, FORMULA SAE ELECTRIC and SAE SKILL INDIA INITIATIVE.
- The team VOLANTE stood overall first place in Electrical Go-karting at Coimbatore in March 2019.



In the Formula green competition, February 2019 held at Budhh International Circuit the team STIER RACING stood 2nd Place in India, first in Karnataka, 1st Place in Design, 1st Place in Business Plan, 2nd Place in Cost Event and Secured the 2nd Position overall.

Faculty who obtained Ph.D Degree



Mahantesh Matur obtained a degree from VTU Belagavi on his thesis titled 'Investigation of cracks in the curved surface under Mechanical and Thermal loads' under the guidance of Dr. P. Dinesh,

Professor, Department of Mechanical Engineering, Ramaiah Institute of Technology, Bengaluru.



Shashank Lingappa M obtained a degree from VTU Belagavi on his thesis title – 'Melting of metallic materials using microwave energy and its characterization' under the guidance of Dr. Srinath M. S.

(Professor, Department of I&P Engineering) and Dr. Amarendra H. J. Professor, Department of Mechanical Engineering, Malnad College of Engineering, Hassan.



Kiran MC obtained a degree from NITK, Surathkal on his thesis title- 'Static buckling and free vibration behavior of skew magneto - Electro-Elastic plates' under the guidance of Dr. S. Kattimani, Associate Professor, NITK-Surathkal, Karnataka.



Prashantha B obtained a degree from NITK, Surathkal on his thesis title- "A computational studies on hemodynamics in straight and bifurcated arteries" under the guidance of Dr. Anish S, Assistant Professor, NITK – Surathkal, Karnataka.

DEPARTMENT OF CIVIL ENGINEERING



Technical Visit

• Technical visit water treatment plant facility at Thorekadanahalli: As a part of teaching learning process in the course Environmental Engineering I for IV Sem Civil Engineering students, a technical visit was organized by Royal MSRIT Society of Civil Engineers. The visit was organized on 29th of March 2019 to a water treatment plant at Thorekadanahalli, which supplies majority of water to Bangalore City.

Publications in National/ International Journals

• **Harish, N., Prasanth J., Sangami Sanjeev** – 'Effective adsorption of lead and copper from Aqueous Solution by Samaneasaman and Banana Stem', Advances in Environmental Research, International Journal, Techno-Press, Vol. 7, No.3, pp. 225-237.

Paper presentation in International Conferences

- **Harish N, Shivkumar H, Prashanth J** - 'Studies on Green Concrete Pavement: Experimental and SVM Modelling', International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019), Amity University, Rajasthan, India, February 2019.
- **Prashanth J, Harish N.R, Prasad** – 'Pervious Concrete with LLDPE Powder as Fine Aggregate', 4th International Conference on Composite Materials and Material Engineering (ICCMME2019), Tokyo, Japan, January 2019.
- **Adarsha B.S, Harish N, Prashanth J, Mandal S** – 'Elephant Herding optimization based Neural Network in Predicting Elastic Modulus of Concrete', 8th International Conference on Soft Computing for Problem Solving - SocProS 2018, Vellore Institute of Technology, Tamil Nadu, India, 17th- 19th December 2019.
- **Raje Gowda, H Narendra, B M Naghabushan, R Mourougane** – 'Performance of Nano-SiO₂ and Nano-ZnO₂ on Compressive Strength and Microstructure Characteristics of Cement Mortar', Sustainable Construction and Building Materials, Springer Nature Singapore Pvt Ltd. 201, pp. 13-22, January 2019.
- **Anil Kumar, Prakash, Raje Gowda** – 'Durability Performance of Structural Light Weight Concrete', Sustainable Construction and Building Materials, Springer Nature Singapore Pte Ltd. 201, pp. 853-861, January 2019.
- **Nandeesh M S, Arjun R P Reddy, H N Jagannatha Reddy, R Prabhakara** – 'Studies on effect of near surface mounted (nsm) Technique on the dynamic behaviour of RC slab under incremental drop test', 8th International Engineering Symposium (IES 2019), Kumamoto University, Japan, March 13th - 15th 2019.
- **Arjun R P Reddy, Nandeesh M S, H N Jagannatha Reddy, R Prabhakara** – 'Studies on Drop Test Dynamic Response of Two Way HSC Slabs Strengthened using CFRP Strip Adopting NSM Technique', 8th International Engineering Symposium (IES 2019), Kumamoto University, Japan, March 13th -15th 2019.

Guest lecturers- Invited

- **Dr. K S Jayasimha**, Chairman, Stedrant Technoclinic Pvt Ltd., Bangalore – ‘Lessons from Failure of structures- a few case studies’, 01-03- 2019.

Funded Project

- **Naveen Muralidharan, Manu G, Venugopala N, Malleppa B, Dr. Guruprasad Y K** - ‘Application of eco-friendly RC jacket made up of sustainable materials for retrofitting of damaged RC beams on’, KSCST. Grant of Rs.8000/-

Achievement/s Awards / Prizes by Students

- **Veeresh, Mutturaj, Pramod, Sai Yashas GM** - Students of VI Semester participated in “Tantragyaan-2019” and bagged I prize in Bridge Modeling event. It was a National Level Technical Symposium organized by JSS Science and Technology University, Department of Construction Technology and Management, Mysuru on 25th - 26th March 2019.
- **M Sai Yashas G M, Arshad T M** Students of VI Semester participated in “Tantragyaan-2019” and bagged II prize in Pictuarization event. It was a National Level Technical Symposium organized by JSS Science and Technology University, Department of Construction Technology and Management, Mysuru on 25th - 26th March 2019.
- **Sahshidhar Biradar, Sai Yashas, Prasad, Rakshith** Students of VIII Semester participated in CEA-2019 and bagged II prize in Modelling event organized by Department of Civil Engineering, Indian Institute of Technology, Madras.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

- Students of 6th semester visited SMS Silk Chake Centre, at Yelichipalya village, Channapatna Taluk, Ramanagaram District with Dr. C.G. Raghavendra and discussed on ‘different practices and techniques involved in rearing silkworms’, on 19th February 2019.



- Industrial visit was organized to ISTRAC facilities at MOX Complex, Peenya Industrial Estate, Bengaluru on 12th March 2019 for the benefit of M.Tech students of both DEC and VLSI. Mr. B Shankar Madaswamy, Scientist, HRD Manager, assisted visit inside ISTRAC and presented a brief overview of ISTRAC achievements. He also took students a tour to various facilities available inside ISTRAC and illustrated live demo of the satellite tracking system.



Publications in (National/International) Journals

- **Mamtha Mohan** - ‘An approach to detect diabetic disease by texture analysis of Fundus Images’, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), Vol 6, No.1, 2019.
- **Priyanka P, Nisarga G.K, Raghuram S** - ‘CMOS Implementations of Rectified Linear Activation Function’, In: Rajaram S., Balamurugan N., Gracia Nirmala Rani D., Singh V. (eds) VLSI Design and Test (VDAT 2018), Communications in Computer and Information Science, Vol. 892, pp 121 – 129, Springer, 2019.

Paper Presentation in National/International Conferences

- **Mamtha Mohan** - 'An approach to detect diabetic disease by texture analysis of fundus images', International Conference on Researches in Science and Technology (ICRST-19), Science society, 3rd February 2019.
- **Dr. V. Anandi, Dr. M. Ramesh, Suraj Ramesh** - 'A Study on Offering Proactive Fault Management of Software-Defined Wide Area Network (SDWAN) Service', ICDE-2019, SAGE publishers, Presidency University, Bangalore, 6th February 2019.
- **Ravichandra R, Rathishchandra Gatti R and C.G Raghavendra** - 'Energy Storage System and Charging Infrastructure for Electrification of Automotive Sector', All India Seminar on "Electric Vehicles: Prospects and Challenges IE (I), Dharwad Centre and SDMCE&T IEI-Proceedings, 3rd January 2019.
- **Flory Francis, Suma K.V, Sushmitha** - 'Managing Car Parking-The lot Way', International Conference on researchers in Science, Technology and Management (ICSTM-19), 26th January 2019.
- **Dr. V. Anandi, Dr. M. Ramesh, Suraj Ramesh** -A Study on Impact and Reach of Digital Technology/ICT on Attitude, Knowledge and Mobile Money Among', ICDE-2019, Presidency University, Bangalore, 6th February 2019.
- **Manish Kumar Jha, Rajni Kumari Sah, Rashmitha M S, Rupam Sinha, Sujatha B, Suma K V**-'Smart Water Monitoring System for Real-time water quality and usage monitoring', Proc. International Conference on Inventive Research in Computing Applications (ICIRCA 2018) IEEE Xplore Compliant Part Number: CFP18N67-ART; ISBN:978-1-5386-2456-2. pp. 617 – 621.
- **Imaculate Rosaline.S, Rajesh Kumar. V**-'Metamaterial Inspired Triangular closed loop structure (TCLS) for dual-band applications', IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking 2019, Vellore Institute of Technology, Vellore, 30th – 31st March 2019.
- **Shreedarshan K, S Sethu Selvi** – 'Effective Abnormal Behavior Identification in a Crowd',

International Conference on Circuits, Controls, Communications and Computing (I4C), Ramaiah Institute of Technology, Bangalore, 3rd - 5th October 2018.

Guest Lecture/s - Invited

- **Smt. Savitha Ganjigatti**, Vice President, SIENNA ECAD Technologies Pvt. Ltd., Bangalore, 'Today's high-speed PCB Designs & Technology Trends', PCB Design 26-03-2019.

Guest Lectures delivered by the department faculty

- **Dr. Rama Murthy T V** - 'Signal Processing- Theory and Hands-on session', 5-day open course on 'Neural Networks and Signal Processing Application using Matlab Tool', held at BMSIT, Bangalore, 15-02-2019.
- **Dr. Lakshmi. S** – 'Smart Sensors and their applications', Department of Electronics and Communication, FDP on "Development of Smart Sensor Technology towards Electronic Applications", JSS Science and Technology University, 05-02-2019.
- **Raghuram S** – 'Introduction to Deep Learning', Workshop on Aerospace Inputs for Curriculum Development, In collaboration with Boeing Research and Technology, India, 11th-12th February 2019.

Funded /Sponsored Projects

- **Suma P, Dr. Suma K V**- 'PRV for detection of the autonomic tone of an individual', KSCST 42nd Series of Student Project Programme (2018-19), won Best Project award and a cash prize of 5000/- 27-03-2019.
- **Shoaib Ahmed, Dr. Reshma Verma** – 'Integrated Health and Patient Monitoring System using IoT', KSCST 42nd Series of Student Project Programme (2018-19), Best Project award and Rs.6000/-, 27-03-2019.
- **Kavya Jadav, Simran Parveen, Suchetha Kulkarni and Sanjana, Dr. Suma K V**- 'IoT based Smart Security Solution for Women', "FAER McAfee Scholar Award Program-2018-2019", Rs.5000/.
- **Anushman D Prahlad, Deeksha T M, K Chaatru Srikar, K Sheeraja Raghavan, Sara Mohan George**- Child Tracking and Monitoring, "FAER McAfee Scholar Award Program-2018-2019", Rs.5000/.

- **Aadharsh Hariharan, Ishita Rajpal, Sourab S, Velury Suguna, Sara Mohan George**- 'Remote Fall Monitoring system for elderly people', "FAER McAfee Scholar Award Program-2018-2019", Rs.5000/-.
- **Aadharsh Hariharan, Ishita Rajpal, Sourab S, Velury Suguna, Sara Mohan George**- 'Remote Fall Monitoring system for elderly people', "Gemini Electro Corporation", Rs.20, 000/-.
- **Dr. Raghuram S**- 'Deep Learning for the efficient Numerical Solution of Differential-Algebraic Equations', Seed money under Research and Development fund, RIT sanctioned amount: Rs.4, 20,000/-.

Faculty Achievements

- **Dr. Lakshmi. S, Dr. V. Anandi** won the second prize in the doubles event at Intra-Ramaiah Shuttle Badminton Tournaments organized by Gokula Education Foundation, held on Jan 24th and 25th 2019 at the JP Academy, Sanjaynagar, Bengaluru.

Students Achievements

- **Simhadri G, A V P Koushik**, students of 6th semester won a 1st prize with a cash reward of Rs. 1,00,000/- in Smart India Hackathon (guided by Mrs. Sara Mohan George) held on March 2019.
- Students from E&C department won 3rd Prize in the march-past held on 9th March 2019, organized by GEF.



- **Shreya Shrinarasi, Aniruddha Pandey** of 6th semester and **Vishesh Mehtha** of 2nd semester, who are part of a formula electric car design team called "Stier Racing", participated in Formula Green held in Buddha International Circuit, Greater Noida on 22nd-27th February. The Team won 2nd Prize and won the Best Design and Best business plan award respectively. They also won 2nd prize in the best cost report category.

- **Gaurav Chaudhary, Anudeep Kumar**, aiming to provide a counseling service to students at an early age by a trained psychologist who will be evaluating them on a 360 degree basis to give a result so that they can decide on a career path best suited for them, IIM-Kozhikode selected this team idea among the top 8 teams from hundreds of submissions in their fest Backwaters' flagship event and were given the opportunity to present in front of judges from TIE-Kerala and they got second prize at the competition with a cash prize of 20,000/-.
- **Gaurav Chaudhary, Anudeep Kumar**, 'You start' 2019, a national startup competition which was conducted by CII Karnataka this year. Among hundreds, these students were selected in the top 5 and called to present their idea in front of 300 investors in The Taj, Bangalore.
- **Gaurav Chaudhary, Anudeep Kumar**, participated in the B-Plan event at RVCE Chemical department fest React '19 and the winners of the event with a cash prize of 7000/-.
- **Shoyeb** (2018 pass-out student) project titled 'Digital Implementation of Artificial Neuron', has now reached final leg (after clearing two rounds) of Cadence Design Contest.

Ph.D. Degree awarded



- **Smt. Suma K V** was awarded Ph.D. degree by VTU for her work on 'Analysis of Nailfold Capillary Morphology for Diagnosis of Type-2 Diabetes Mellitus and Hypertension in Indian Population', March 2019

under the supervision of Dr Bheemsain Rao, Director-Medical Devices, SLT Ltd, Bangalore.

DEPARTMENT OF CHEMICAL ENGINEERING

The Department of Chemical Engineering, and Department of Biotechnology, RIT, have conducted six days technical workshop on "Recent Advances in Nutraceuticals and Functional Foods" from 28 Jan to 2 Feb 2019 in association with Himalaya Drug Company, Bengaluru, for the benefit of faculty and research scholars in the field of Food Biotechnology. Total 70 faculty and research scholars attended the program.



Publications in (National/International) Journals

- **P Brijesh, Ravi Sadasivan-** "Synthesis of Sodium Gluconate by $\text{Cr}_2\text{O}_3/\text{Al}_2\text{O}_3$ Catalyst in a Three-Phase Stirred Slurry Reactor, Nanotechnology for Environmental Engineering", Pg. Np. 1-6(2018), <http://doi.org/10.1007/s41204-018-0047-x> ISSN: 2365-6379 ISSN: 2365-6387.
- **Suja Eapen, K Asokan, K Satheesh Kumar, TR Ramamohan, Anil Kumar** - "Comparison of Variations of TEC at Disturbed and Quiet Time Using Nonlinear Dynamics Tools", Journal of Geophysical Research: Space Physics, Page No. 1-15, August 2018, <http://doi.org/10.1029/2018JA025320>, DOI: 10.1029/2018JA025320.
- **M.A. Sandoval-Hernandez, A.K. Shukla, H. Vazquez - Leal, T.R. Ramamohan, R. Castaneda - Sheissa, U. Filobello-Nino, C.E. Sampieri-Gonzalez, L . Hernandez-Martinez** - "Exploring a novel approach for homotopy solutions for nonlinear problems with two-point Neumann boundary conditions", Nonlinear Science Letters A, Vol.9, No.4, pp.360-377, December 2018, ISSN: 2519-9072 (Online), ISSN 2076-2275. (print).

Paper Presentation in National/International Conference

- **Kruthi H B, Shreya H, Divya Mishra & Ch. Mahendra-** "Pine Wood Gasification -Based on Thermodynamic Equilibrium Model Using ASPEN PLUS" in 2nd National Conference on Industrial Pollution and Control Technology-2019 (IPACT – 2019) held at Department of Chemical Engineering, Annamalai University, and Tamil Nadu on 13th & 14th March 2019.

- **Rajeswari M Kulkarni, Ashwini Sachindran, Sanjana Shekar, Sridar Sandeep and Varshita Anand-** "Biosorption of Lead Ions Using Sugarcane Bagasse: Isotherm and Kinetic Studies" in 2nd National Conference on Industrial Pollution and Control Technology-2019 (IPACT – 2019) held at Department of Chemical Engineering, Annamalai University, Tamil Nadu on 13th & 14th March 2019.
- **Abhijeet R Sabnis, Divya Mishra, Aishwarya Halyal, Arvind N** presented Paper at BioChESS 2019 organised by the Department of Chemical Engineering and Biotechnology, SIT, Tumkur held on 12th March 2019.

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

- **Sandhosh Kumar M G, Mohammed Riyaz, Agilan Ravindran** has secured 1st Prize at TIELINES 2019 (National Level Technical Symposium) organised by the Department of Chemical Engineering, Pondicherry Engineering College held on February 21st and 22nd 2019.
- **Joyal Paul, Lakshmi V Sasidharan** has secured 1st position in IDEASIS 19 held as a part of DRAP 19 conducted by National Institute of Technology, Calicut from February 15th to 16th 2019.

Guest Lectures – Invited

- **Dr. T V Rajagopalan** an ex MCF employee who served as a Project Manager as well as a General Manager delivered a talk on 31st January 2019 on "Power utility implementation, land acquisition for the plant, storage of urea, marketing challenge, and transport through railway, operation startup problems and product imperilments".
- **Dr. Ravindra Melawanki**, Assistant professor, Department of Physics, MSRIT, delivered a talk on 1st March 2019. He spoke about his field of research and gave insights about how research has to be conducted.
- **Dr. Manjunathan P** a Post-Doctoral Research Associate at Poornaprajna Institute of Scientific research, delivered a talk on 15th March 2019. On the topic "Chemical methods for the synthesis and modification of various catalytic materials namely zeolite, mixed metal oxides, mesoporous materials, and sulfonated carbon and polymers.

DEPARTMENT OF INDUSTRIAL ENGINEERING & MANAGEMENT



- Industrial Visit to M/S. SEAL INDUSTRIES PVT., LTD, Bangalore on 17th Dec 2018.

Publications in National / International Journals

- V. Vivekanand, G.S. Prakash** - 'Application of deterministic, stochastic and fuzzy linear programming models in solid waste management studies: a literature review', The Journal of Solid Waste Technology & Management. Formerly the Journal of Resource Management & Technology Vol. 12-22. Formerly NCRR Bulletin Vol. 1-11. Vol. 45 No.1, pp. 68-75.
- K.C. Nagaraj G.S. Prakash S. Rajanna, G. Rajesh Kumar** - 'Mechanical characterization of fiber reinforced polymer matrix composite prepared by using RTM Technique', International Journal of Electro-Mechanics and Mechanical Behaviour. Vol.4, pp. 13-19, 25th January 2019.
- Anish Ray, Deepak Kumar, Chethan Kumar CS**-'Optimum Supplier Selection and Travelling Salesman Problem through Particle Swarm Optimization & Fuzzy logic', National Journal of Industrial Engineering and Its application, Vol.4, pp. 1-15, 2019.
- Anirudh Acharya, Deepak Kumar, Chethan Kumar C S**- 'An Improved Analysis of PSO in Scheduling with Virtualization through Internet-Cloud Computing', National Journal of Internet of Things & Information Technology Vol.2, pp. 8-19, 2019.

Paper presentation in National / International Conference

- K.C. Nagaraja, G.S. Prakash, S. Rajanna, G. Rajesh Kumar** - 'The role of stacking order on interlaminar shear strength of woven glass/carbon fiber reinforced epoxy hybrid composite developed by resin infusion technique', International conference on Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM-2019), NITEE Meenakshi Institute of Technology, Bangalore, 15th March 2019.
- K.C. Nagaraja, G.S. Prakash, S. Rajanna, G. Rajesh Kumar** - 'Mechanical properties of polymer matrix composites: effect of hybridization', 3rd International Conference on recent advances in Material Chemistry (ICRAMC-2019), SRM University, Kattankulathur, Tamilnadu, 13th - 15th February 2019.
- Vibhav Jha, Keerthana & M. Shilpa**-'Factor analysis for studying customer behavior towards E-wallets in new India', International Conference on Recent Trends in Industrial Innovation, Value Engineering & Management Sciences, Dayananda Sagar College of Engineering, Bangalore 28th - 30th March 2019.
- Nishchay. M, Neha. B L & M. Shilpa** -'Application of Single Minute Exchange of Die in a Low Voltage and High Voltage Winding Machine', International Conference on Recent Developments in Mechanical Engineering, S.A. Engineering College, Chennai, 21st - 22nd March 2019.
- Nishchay. M, Neha. B L & M. Shilpa** -'Application of Taguchi's Orthogonal Array Approach for Continuous-to-Continuous Type of Dynamic Quality characteristic', International Conference on Recent Developments in Mechanical Engineering, S A Engineering College, Chennai, 21st - 22nd March 2019.

Guest Lecture/s – Invited

- M.K. Krishna**, Advisor, Trainer & Consultant (KM) SBIFM, Indian Institution of Industrial Engineering (IIIE), Quality Circle Forum of India (QCFI), Bangalore Chapter, Bangalore - 'Maiden Lecture on - Make in India 9/25' Finance as a tool to prospective MSME Entrepreneurs in all three sectors - Industry, Service, Business of Indian Economy', 21-02-2019.

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

- **Aditya Singh Nandawat, A. Balakrishna**, presented a paper on 'Reconfigurable manufacturing systems', IEMage-2019, won 1st place at State Level Technical Symposium, Siddaganga Institute of Technology, Tumakuru, 9th March 2019.
- **Saksham Garg, Agrawal Shivang Mukeshbhai**, presented a paper on 'Decision making under risk and uncertainty', IEMage -2019, State Level Technical Symposium, Siddaganga Institute of Technology, Tumakuru, 9th March 2019.
- **Ms. Roshni Vel, Vartika**, presented a paper titled "Cyber Manufacturing" - Participated and presented a technical paper in the IEMage – 2019, State Level Technical Symposium, Siddaganga Institute of Technology, Tumakuru, 9th March 2019.

Faculty who obtained Ph.D Degree



Dr. M.R. Shivakumar was awarded Ph.D. degree by VTU for his work on 'Investigation on Mechanical and Thermal Properties of Aluminium Based Glass Powder Reinforced Metal', under the supervision of

Dr. N.V.R. Naidu, Principal & Professor, Department of Industrial Engineering & Management, Ramaiah Institute of Technology, Bangalore.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



- Workshop on 'Aerospace Inputs for Curriculum Development in collaboration with Boeing Research and Technology, India', was held during 11th and 12th February 2019. Dr. Narendran Balan Maniyedath, Senior Manager, Aeromechanics, Dr. Prasanth T. Kambrath, Dr. Mohammad Y, Dr. Koustav Sengupta, Dr. Venkat Reddy, Dr. Madhava Prasad Koteshwara,

Boeing Research and Technology, India-delivered technical talks during the workshop. Dr. Pattada Kallappa coordinated the event from Boeing. Dr. Chethan Kumar C S, Dr. Jagadish S Kallimani, Dr. Raghuram, Dr. Mohan Das K N, Dr. Nagesh S N, and Prof Dawnee S coordinated the event from RIT.

Faculty Achievements

- **Shilpa Chaudari**, Associate Professor, has made an agreement with EDAC **Multitech Private Limited** for Consultancy Project on "LED Light Controller".

Publications

- **Shilpa Chaudhari, Suyash Pathak and Rohan Manjunath** - "A Hybrid ARQ Schemes for Efficient Wireless Communication: A Systematic Survey", International Conference on Electrical, Communication, Electronics, Instrumentation and Computing, 30-31 January 2019, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Chennai, Tamil Nadu, India.
- **Roopa and Shilpa Chaudhari** - "A survey on Geographic Multipath Routing Techniques in Wireless Sensor Networks" 5th International Conference on Advanced Computing & Communication Systems, Sri Eshwar College of Engineering Coimbatore, India, March 15-16, 2019.
- **Kavyashree K S and Shilpa Chaudhari**-Interference Mitigation in Wban Using Cdma/Ca Scheme: A survey", 5th International Conference on Advanced Computing & Communication Systems, Sri Eshwar College of Engineering Coimbatore, India, March 15-16, 2019.
- **Kalyani Ghanta and Shilpa Chaudhari** - "Survey on MTC Group Authentication and Key Management for MTC in LTE Networks Survey on 6LoWPAN Security Protocols in IoT Communication", International Conference on Data Science, Machine Learning & Applications, 29-30th March 2019, CMR Institute of Technology, Hyderabad.
- **Krishna Jyothi and Shilpa Chaudhari** - "Survey on MTC Group Authentication and Key Management for MTC in LTE Networks", International Conference on Data Science, Machine Learning & Applications, 29-30th March 2019, CMR Institute of Technology, Hyderabad.

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

- The Department has jointly organized a faculty training programme on "Connecting Lab View to the Industrial IoT - A Hands on approach", 28th January to 1st February 2019 with Department of Electrical and Electronics Engineering and National Instruments.

Paper presentation in National / International Conferences

- H.S. Niranjana Murthy, M. Meenakshi**- 'Computer Aided Diagnosis of Myocardial Ischemic Beats using ICA and WPD', Journal of Advanced Research in Dynamical and Control Systems, Vol. 11, pp. 214-220, March 2019.
- Ajay Ovhal, Hrishikesh Sonalikar** - 'Shape Optimization of Cylindrical Electrode Geometries to Mimic Orbitrap', IEEE Sponsored 5th International Conference for Convergence in Technology (I2CT) 2019, 29th -31st March 2019.

Guest lecture(s) Invited

- Nitin Kumar**, Verification Engineer, Alumni, Department of EIE, working for ARM, Bangalore, Ajith Kumar S, Engineer and Nikhil S Patil Graduate Engineer, ARM, Bangalore -'ARM: Architecting a Smarter World', 23-02-2019.
- Dr. Ravi Mukkamala, Prof. Ajay Gupta**, Department of Computer Science from Old Dominion University, Arizona, USA - 'Higher education in abroad university', 15-03-2019.

Student Achievements

- Ninad, Vishal, Sahith Shetty, Yash Prakash** of VI semester students Won 3rd position with a cash prize of Rs.5000/- in EUREKA Hackathon-2019 held at Pune.
- Gowtam Reddy** of VI semester, Pradyumna Chavan of I semester – team members of Basketball represented our Institute, placed 3rd in Malleswaram cup held in the month of January, won 1st place in RV tournament, Josephs management tournament held in the month of February, placed 1st in tournament conducted by Manipal Institute of technology and placed 2nd in the tournament conducted by Reva University.

- Aditya Anand** of VI semester placed 3rd in EDC Hackathon.
- Aditya Anand** won 3rd place at MLH Hackathon hosted by Github, at RIT for development of anti-bullying software using Machine learning.

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

- DevOps workshop from 21st – 25th Jan 2019, 5 days' hands-on workshop on DevOps is organized by the department for the benefit of faculty members of engineering institutes across Bangalore. Departments of CSE and MCA co-hosted the workshop.



- IOS Development using Swift 30-31st Mar 2019: Department student organization has arranged a hands-on workshop on IOS development using Swift workshop for the benefit of faculty and students of RIT. Mr. Pranav Karnani, Executive Head and Lead iOS Developer at Apple Developers Group (ADG-VIT) and Mr. Aritro Paul from Developer Student Club, VIT, Vellore delivered the sessions.



- RPA (Robotic Process Automation) Design & Development March 15th, 2019. Mr. Basavadarshan G N Engineer UiPath, Bangalore delivered a session on UiPath studio to faculty and students of the department. UiPath can be downloaded and used as a community edition. Faculty and students can register under UiPath academic alliance and reap the benefits.

Publications (International Journal)-Faculty

- **S R Manishekar, Siddesh GM, Sunil Kumar S Manvi, Srinivasa K G** - "Identification of Essential Proteins in Yeast using Mean Weighted Average and Recursive Feature Elimination", Recent Patents on Computer Science, Bentham Science Publishers, Vol.12, Issue 01, 2019.
- **S R Manishekar, Siddesh GM, Swapnil Kalra, Shaswat Anand** - "A Study of Use Cases for Smart Contracts using Blockchain Technology", International Journal of Information Systems and Social Change (IJISSC), Special Issue Submission: Blockchain Technology: Platforms, Tools, & Use Cases, IGI Global Publishers, Vol.10, Issue 02, 2019.
- **Jamuna Murthy, Siddesh G M, K G Srinivasa** - "A Real-Time Twitter Trend Analysis and Visualization Framework", International Journal on Semantic Web and Information Systems (IJSWIS), Special Issue Submission: Social Networks and Semantic Integration, IGI Global Publishers, Vol.15, Issue 02, 2019.

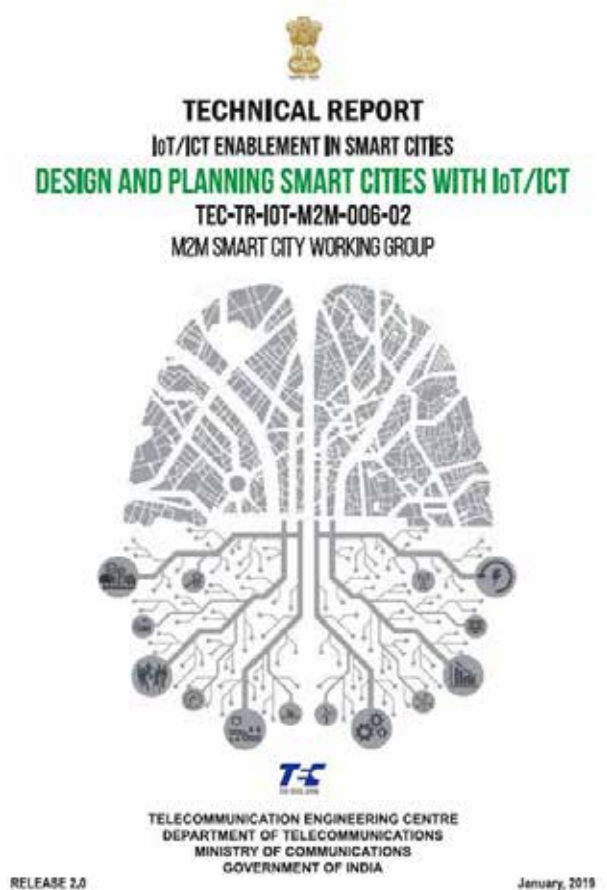
International Conference

- **Vijaya Kumar BP, Prutvi, Rohit Naik** - "Prediction-based policy setting by finding the significance of Attributes from the Ontological Framework in Agricultural domain" 2018 IEEE Symposium Series on Computational Intelligence (SSCI), Bangalore November 18th to 21st November 2018, Bangalore.
- **Vijaya Kumar B.P, Mahadev Mohit N.K, M S Pawan Ranjith, Narendranath D Nadig and Nikita Menon K.P** - "Augmentation on Satellite Imagery with Information Integrated Farming", Proceedings of the 2019 Third IEEE International Conference on Electrical, Computer and Communication Technologies, 20th to 22nd February 2019, Coimbatore (I)

Guest Lectures – by Department Faculty

- **Dr. Siddesh G M** – "Practical Aspect of Management of Server/Cloud for CCTV Footage/Video Data" workshop on at NIT, Rourkela from 28 to 30, March, 2019.

Achievements – Faculty



- **Dr. B P Vijaya Kumar** is one of the contributors for the Technical Report on Planning Smart Cities with IoT/ICT published by Ministry of Communication, Department of Telecommunications Govt. of India. Download link is <http://www.tec.gov.in/technical-reports>.
- **Dr. B P Vijaya Kumar** is a Course Instructor for Computational Machine Learning course at Center for Continuous Education, IISc, Bangalore.
- **Dr. B P Vijaya Kumar** is the session chair for 3rd International Conference on Electrical, Computer and Communication Technologies held at Coimbatore, Tamil Nadu from 20-22nd February, 2019.



- **Naresh E** is a reviewer for "Journal of Super Computing" Q2 Journal.
- **Sandeep BL** is reviewer for BITES-Xcelerator Project Awards.
- **Dr. Siddesh GM** is a reviewer for Elsevier's Ad-hoc networks journal.
- **Naresh E** won Gold medal in 100m run during 3rd Intra GEF athletics held on 16th Mar 2019 and one more Gold medal in 4*100m mixed relay during the same event.

- **Dr. Vijaya Kumar B P** is a Mentor of the award winning team Tesla 36 at Smart India Hackathon held in Hyderabad during 2nd and 3rd March, 2019.



Achievements – Students

- **Biswajit Mohanty, Shyam I V, Yash Karthik, Rohit** won First Prize under Smart India Hackathon, held at Hyderabad, March, 2019 which is conducted by CMRIT, Software Edition. This team "AVOCETS" grabbed the first prize of Rupees 1 Lakh under the "Health Care Services", sponsored by Dr. Reddy Labs.



- **Dr. B P Vijaya Kumar** is elevated to the position Chairman of IEEE Computational Intelligence Society, Bangalore Chapter.
- **Dr. Mydhili K Nair** is a Mentor of the award winning team AVOCETS at Smart India Hackathon held in Hyderabad during 2nd and 3rd March, 2019.



- **Vikas, Vivek, Roopak, Nagarakshita** won First Prize of Rupees 1 Lakh in Smart India Hackathon held at Hyderabad, March, 2019 which is conducted by CMRIT, Software Edition. This team "Tesla36" worked on the app "Ambulances Services" for the problem statement proposed by CDK Global.



- **Subhojit Mohanty, Sadanand** won First Prize of 15K in Women Tech, Vellore Institute of Technology, University on 13th March, 2019.
- **Subhojit Mohanty, Karthik, Vaibhav, Sadanand** won Best Business Proposal Award, VSHU University, InnovBuzz, 15th Feb, 2019.
- **Subhojit Mohanty, Sadanand** and **Vaibhav** won First Prize at Women Techies held on Feb 11th, 2019, VIT University, and Vellore. Prize Amount -15k.
- **Vybhav Jain, K S Lohith, Anirudh** and **Vignesh** (E&C) secured Second Prize of 20k at DotSlash Hackathon at PES University in March 2019.

DEPARTMENT OF MEDICAL ELECTRONICS

- A Hands-on session using Neural Networks based on MATLAB was organized on 13/02/19. Final and pre-final year students attended this session.
- The IEEE EMB Student Chapter has organized Hands-on session on Technical Writing using LATEX and IEEE Authorship on 20/02/19. Dr. Dhanu from IEEE Bangalore office and Mr. Raghu, Ph.D. Scholar delivered the session.
- Two Days Hands-on Session using ITK-VYK on 27/02/19 – 28/02/19. Mr. Nadish from MIT Manipal and Mr. Ali delivered the sessions.
- A one-day workshop on "Deep Learning with Python" for the 6th-semester students on 19th of March 2019. The analytical speakers, Mr. Aditya Pai, and Shreyas

Hervatte from IISC, Bangalore were invited to give an insight into the basics of Deep learning and its features.

Publications in National / International Journals

- **S Raghu, N Sriraam et al.** - "A Novel approach for classification of epileptic seizures using matrix determinate Expert system with application", 127, 323-341, 2019.

Paper presentation in National /International Conferences

- **Mrs. Tejaswini S** - "Preterm Neonates Cry Pattern Recognition Using Bark Frequency cepstral Coefficients" in First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE-2019) on 19/03/19-20/03/19.
- **Dr. N Sriraam** - "A smart textile electrode belt for ECG recordings- A pilot study with Indian population" 2nd International Conference on signal Processing and Communication (ISPC 19) which was held at Karunya Institute of Technology and Sciences on 29/03/19- 30/03/19.
- **Dr. N Sriraam** - "Automated detection of epileptic seizures using DWT based features and SVM Classification" 2nd International Conference on signal Processing and Communication (ISPC 19) which was held at Karunya Institute of Technology and Sciences on 29/03/19- 30/03/19.

Guest Lecture Delivered by the Department faculty

- **Dr. N Sriraam** - "How to Write Quality Research Proposals" to research faculty members on 21/02/19.
- **Dr. N Sriraam** - "How to Write Quality Research Proposals" to all Ph.D. scholars, Ph.D. holders and research faculty members on 22/02/19 and 23/02/19.
- **Dr. N Sriraam** - "Clinical Electronics and its scope" in Adhyiyaman Engineering College, Hosur on 06/03/19.

Achievements /Awards /Prizes

- **Mrs. Purnima B R**- Winner in Women Doubles & Mixed Doubles and Runner up in Women Singles at

Ramaiah Group Two-day Badminton Tourney- 2019 organized by GEF sports Coordinators on 23/01/19 & 24/01/19.

- **Dr. N Sriraam-** Received the best paper award for the Paper titled "Automated detection of epileptic seizures using DWT based features and SVM Classification" at 2nd International Conference on signal Processing and Communication (ISCPC 19) which was held at Karunya Institute of Technology and Sciences on 29/03/19- 30/03/19.

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

Paper presentation in National /International Conferences

- **Sreepriya S, Nikhil George, Dr. Swetha Amit** - "A Multi-Resonant Microstrip Patch Antenna with Fractal Defected Ground Structure", IEEE First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE-2019), 19th and 20th March 2019, Bangalore, India.

DEPARTMENT OF BIOTECHNOLOGY



- The Department of Biotechnology & the Department Chemical Engineering, RIT, conducted six days technical workshop on "Recent Advances in Nutraceuticals and Functional Foods" from 28 Jan to 2 Feb 2018 in association with Himalaya Drug Company, Bengaluru, under IEEE EMB & IChE for the benefit of faculty and research scholars.



- Workshop on "Basic Molecular Biology Techniques," A One Day workshop on Basic Molecular Biology Techniques was organized by the Department of Biotechnology on 12th April 2019 at RIT, Bengaluru. This training program was intended for Faculty and Post Graduate Students of Department of Conservative Dentistry and Endodontics, Faculty of Dental Sciences, Ramaiah University of Applied Sciences Bangalore. Both basic and advanced-level Molecular techniques were covered during the one-day hands-on workshop.



- An industrial Visit to ReaGene Biosciences Pvt Ltd, Bengaluru was organized on 24th January 2019.



- An industrial Visit to The Himalaya Drug Company, Makali, Bengaluru was organized on 1st February 2019.

- Seminar on Recent Advances in Drug Discovery & Development March-May 2019 Organized by Department of Biotechnology, Ramaiah Institute of Technology, Bengaluru & Bristol Myers Squibb, Bengaluru Under IEEE-EMB.



- Dr. Kaushik Ghosh, Deputy Research Director at BBRC (Biocon Bristol-Myers Squibb Research & Development Centre), Bengaluru, delivered an invited talk on "Advances in understanding Drug-target interactions" on 19th March 2019.



- **Dr. Vamsee Chatakonda**, Principal Investigator, Biocon Bristol Myers Squibb (BMS) R&D Center (BBRC), Bengaluru, delivered an invited talk on "Aptamer Technology, an evolving domain in drug discovery " on 23rd March 2019.

- **Dr. Debarati Mazumder**, Senior Lead Investigator, Biocon BMS Research and Development Center, Syngene International Limited delivered an invited talk on "In vitro Pharmacology in Drug Discovery" on 26th March 2019.

- **Dr. Manjunath Ramarao**, Group Director & Head, Biocon Bristol Myers Squibb (BMS) R&D Center (BBRC), Bengaluru delivered an invited talk on "Drug Discovery and Development on 27th March 2019.

- **Dr. Jyoti Gulia**, Senior Principal Investigator, Biocon Bristol Myers Squibb (BMS) R&D Center (BBRC), Bengaluru delivered an invited talk on Ion channels and CV liability in Drug Discovery/ Heart Failure on 29th March 2019.

Publications in (National / International Journals)

- **T. P. Krishna Murthy, B. S. Gowrishankar, M. N. Chandra Prabha, M. Kruthi, R. Hari Krishna** "Studies on batch adsorptive removal of malachite green from synthetic wastewater using acid treated coffee husk: Equilibrium, kinetics and thermodynamic studies" Microchemical Journal, 146 (January), 192-201 (2019).

- **T P Krishna Murthy, B S Gowrishankar, R Hari Krishna, M N Chandraprabha and R Sreenivasa Rao** "Influence of fuel nature on dye adsorption efficiency of solution combustion derived zinc oxide nanoparticles: A comparative study" Materials Research Express, 6 (February), 055512 (2019).

- **M V Hemantha Reddy, T Sreenivasulu Reddy, R Hari Krishna, B M Nagabhushana and M N Chandraprabha** "Synthesis of Sm³⁺ doped nanoceria with compositionally tuneable conductivity and dielectric properties" Materials Research Express, 6 (January), 035023 (2019).

- **MSasikumar, AGaneshkumar, MNChandraprabha, R Rajaram, R Hari Krishna, N Ananth and P Sivakumar** "Investigation of Antimicrobial activity of CTAB assisted hydrothermally derived Nano BaTiO₃" Materials Research Express, 6 (January), 025408 (2019).

Guest Lecture- Invited

- **Mr. Appaiah C B**, Senior Scientist, Molecular Biology Department, Gangagen Biotechnologies Pvt Limited, Bengaluru, delivered an invited talk "The Hunt for a Novel Antibacterial drug" on 15th February 2019.

- **Dr. Jagadeesh Bhat**, Senior Scientific Manager, GangaGen Biotechnologies Pvt Ltd, Bengaluru delivered an invited talk on "Career opportunities for Biotech Fresher's" on 5th March 2019.

Funded projects

- **Dr. Bindu S** and **Dr. Dhamodhar P** - BiSEP 2017 (Biotechnology Skill Enhancement Programme) Domain: Biopharmaceutical Technology, KBITS, Govt. of Karnataka, 162.5 Lakhs.
- **Dr. Chandrababha M.N & Mrs. Sanchita Sharma** Enhanced Production of Indian (Precursor of Indigo Dye) from cell suspension culture of Indigofera tinctoria and it's up-scaling through bioreactor.DST, 23.72 Lakhs.

Faculty Achievements

- **Dr. Bindu S** - External Member of Institutional Biosafety Committee of M/S GaloreTx, Bengaluru Bioinnovation Centre, Bengaluru.

Student Achievements

- **Suman Muralidharan** and **Jyothi Guruprasad** Attended "Played an active role as Ambassador of Student Relations @ Student Outreach Program BioPharma at Mumbai on 21.02.2019.
- **Suman Muralidharan** and **Jyothi Guruprasad** Attended "Completed Workshop on "Making of Bioplastics" @ Student Outreach Program BioPharma at Mumbai on 21.02.2019.
- **Suman Muralidharan** and **Jyothi Guruprasad** Attended "ICON Lecture & Innovator Stories" @ Student outreach program BioPharma at Mumbai on 21.02.2019.

DEPARTMENT OF MATHEMATICS

Publications in (National / International Journals)

- **Devika P.D Ashwini K. Agrawal, Dinesh P.A** and **Rama Krishna Prasad** - 'Non-Linear Mathematical Modelling of Nylon-6 Polymerization Reactors', Global Journal of Researches in Engineering: C Chemical Engineering, Vol. 19, Issue 1, Version 1.0, 2019, 37-50.
- **Girinath Reddy, Dinesh P. A.** and **Basavaraj M. S** - '3D Rotating Flow of Casson Fluid Over an Elongated Surface with Thermophoresis and Brownian Moment: Buongiorno Model' Journal of Nanofluids, Vol.8, 1-6, 2019.

Guest Lecture/s - Invited

- **Dr. Vittal Rao**, Former Professor, IISc., Bengaluru – 'Marriage between Mathematics and Engineering' 08.03.2019
- **E Vasantha Kumar**, Retired Professor, UAS, Bengaluru – 'Multiple Regression and its Engineering Applications' 25.03.2019

Guest Lecture delivered by the department faculty

- **Dr. Govindaraju M. V.** -'Linear Algebra and Its applications' at BMSIT and Management, Bengaluru.

Faculty who obtained Ph.D. degree



Mr. Suresh Babu R is awarded Ph.D. in Mathematics from VIT University, Vellore for the thesis titled "Non-Linear study of mixed convection flows over a vertical plate in a porous medium" under the guidance

of Dr. B.Rushi Kumar, HOD, Dept. of Mathematics, VIT University, Vellore.

DEPARTMENT OF CHEMISTRY



- 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. 04-01-2019 to 06-01-2019.



- Participants of second day; workshop on the topic: 'Strategies for Sustainable Rural Development', held at Kanneri Mutt, Maharsatra, 05-01-2019.



- Faculty Development Program on 'Advances Materials for science and Engineering' organized by Department of Chemistry along with Physics, Dr. Venkateshvarlu, Principal Scientist, CSIR, NAL, Bangalore was the Chief Guest. 28th January to 02nd February 2019,



- FDP program: Industrial visit & interaction Jubilant Biosys Limited, Bangalore, on 30-01-2019.



- FDP program : Industrial visit Aurigene Discovery Technologies, Bangalore, on 29-01-2019.



- Invited talk by Dr. Balaraju J N, Principal Scientist, CSIR, NAL, Bangalore on 01-02-2019.



- Invited talk by Dr. S. Angappane, Scientist D, Centre for Nano & Soft Matter Sciences, Bangalore. Topic: 'Nanolithography', 02-02-2019.



- Invited talk by Dr. Rajani, Professor, Raman Research Institute Bangalore. Topic: 'The flow and Deformation of Soft Materials' on 28-01-2019.



- Annual prize distribution ceremony of the International Australian national Chemistry Quiz (ANCQ) -2019 function was held on 15-02-2019. Dr. Ganesh Nagaraju, Associate Professor, Department of Biochemistry Indian Institute of Science (2018 Shanti Swarup Bhatnagar Awardee), Bangalore was the Chief Guest.



- Prize winners of the International Australian national Chemistry Quiz (ANCQ)-2019 function was held on 15-02-2019.



- A Guest lecture was organised during Annual prize distribution ceremony of the International Australian national Chemistry Quiz (ANCQ) -2019. Topic – 'DNA Repair in Health and Disease' by Dr. Ganesh Nagaraju on 15-02-2019.



- In association with Luminescence Society of India: Karnataka Chapter (LSIKC), an innovative program called 'My Research Journey' was held on 24-02-2019. In which research scholars secured Ph.D degree from LSIKC group, share their research experience with young research scholars.



- In association with R & D center, Department of Chemistry, RIT; LSIKC conducted a program called 'Interaction with Scientist' in which LSIKC members and research scholars of the chemistry department interacted with Dr. M.A.R. Iyengar, Retired Scientist from BARC, Kalpakam, on 10-02-2019.



- 'Knowledge Sharing with Villages/Formers', in association with Luminescence Society of India: Karnataka Chapter (LSIKC) Department of Chemistry conducted a Zero-Budget program 'Chemical free agriculture'. Deliberation by Padmashree. Subhash Palekarji on 11-02-2019 at Gandhi Bavan, Bangalore.



- 'Knowledge Sharing with Villages/Formers', innovative Outreach Program was conducted by Luminescence Society of India: Karnataka Chapter (LSIKC) on the topic 'Soli health and its protection for agriculture'. Resource person Mr. Soil Vasu at Huliyaar, Tumkur District. On 17-02-2019.



- In association with Luminescence Society of India: Karnataka Chapter (LSIKC), Department of Chemistry conducted Research Orientation Program for Research Aspirants (ROPRA), in which the basic principles of solution combustion was explained to research scholars, on 03-03-2019.

Publications (National / International) Journals

- **Nagaraju Kottam, Bincy Rose Vergis, R Hari Krishna, B.M. Nagabhushana** - 'Removal of Evans Blue dye from aqueous solution using magnetic spinel $ZnFe_2O_4$ nanomaterial: Adsorption isotherms and kinetics'. Nano-Structures & Nano-Objects, 18 (2019) 100290.
- **Nagaraju Kottam, M Mahanthappa** - 'Enhanced Photocatalytic degradation of methylene blue dye using CuS - CdS nanocomposite under visible light irradiation'. Applied Surface Science, 475 (2019) 828-838. doi.org/10.1016/j.apsusc.2018.12.178.
- **B.M Nagabhushana, N Shobha** - 'Synthesis and characterization of Zinc oxide nanoparticles utilizing seed source of Ricinus communis and study of its antioxidant, antifungal and anticancer activity', Materials Science and Engineering: C, (2019) 842-850.
- **B. M. Nagabhushana** - 'Down and up conversion luminescence of $ZrTi_{(1+x)}O_4$ nanocomposites by visible light absorption', Journal of Molecular Structure, 1184, 2019.
- **D. H. Manjunath** - 'Honeybee as a Biosensor: detection of a medicinal plant Adrographis paniculata', Research journal of chemistry and environment, 23, 2019.
- **Dr. D. H. Manjunatha** - 'RP-HPLC-UV method development and validation for simultaneous determination of terbutaline sulphate', Annales Pharmaceutiques Françaises. 77,(2019),295-301.
- **R. Harikrishna**- 'Studies on batch adsorptive removal of malachite green from synthetic waste water using acid treated', Microchemical journal, 146,2019
- **R HariKrishna, B. M. Nagabhushana** - 'Synthesis of Sm^{3+} doped nano ceria with compositionally tuneable conductivity and dielectric properties', Materials Research Express, 6 (2019) 035023.
- **P. Murali Krishna** - 'Design, synthesis, and pharmacology of some Oxadiazole and Hydroxypyrazoline hybrids bearing Thiazoyl scaffold: Antiproliferative activity, Molecular docking and DNA binding studies', Heliyon 5(2) (2019) e01255.
- **P. Murali krishna** - 'Synthesis, Spectral characterization and Biological studies of $Cu(II)$, $Co(II)$ and $Ni(II)$ complexes of azo dye lig and containing 4-amino antipyrine moiety', Journal of Molecular Structure 1183 (2019) 37-51.
- **P. Murali Krishna** - 'One-Pot Synthesis of Pyrimido [4,5-d]pyrimidine Derivatives and Investigation of Their Antibacterial, Antioxidant, DNA-Binding and Voltammetric Characteristics', Chemistry Select, 4 (2019) 990-996.
- **P. Murali Krishna** - 'Synthesis, Characterization, Pharmacological and Computational Studies of 4, 5, 6, 7-tetrahydro-1, 3-benzothiazole incorporated azo dyes", Journal of Molecular Structure, 1179 (2019) 630-641.
- **P. Murali Krishna** - 'Synthesis, Characterization, Nucleic acid interaction and Photoluminescence properties of (E)-(2-(2-hydroxybenzylidene)hydrazinyl) (pyridin-4-yl) methaniminium $Mn(II)$, $Co(II)$, $Ni(II)$, $Cu(II)$ and $Zn(II)$ complexes' Journal of Molecular Structure, 1179 (2019) 86-91.
- **P. Murali Krishna, R. Hari Krishna**, -'Facile synthesis, characterization, nucleic acid interaction and photoluminescent properties of (E)-furan-2-yl(2-(2-hydroxybenzylidene) hydrazinyl)methaniminium and its $Mn(II)$, $Co(II)$, $Ni(II)$, $Cu(II)$, $Zn(II)$ and $Cd(II)$ complexes', Journal of Molecular Structure 1178 (2019) 333-340.

- **P. Murali Krishna** ,- 'Synthesis, structural studies, molecular docking and DNA binding studies of 4N-substituted hydrazinecarbothioamides', Journal of Molecular Structure 1175 (2019) 97-104.
- **P. Murali Krishna** – 'Cobalt (II) complex of(3-Amino-5-[E-(4-ethylbenzaldehyde)4-methyl-2-phenylcyclopentanone): Synthesis, characterization and photocatalytic studies', International Journal of ChemTech Research, 12(1) (2019) 171-177.
- **B. M. Nagabhushana, A. Sangeetha** – 'Comparative study of photoluminescence of single and mixed phase ZrTiO₄ prepared by solution combustion and polymeric precursor method', Journal of Molecular Structure, 1179 (2019) 126-131.
- **Dr. Malathi Challa** - 'Mechanism of High Temperature Induced Phase Transformation and Magnetic properties of Mn₃O₄ crystallites', Journal of Magnetism and Magnetic Materials, 2019, 476.

Guest Lectures – Delivered by Department Faculty

- **B. M. Nagabhushana** – 'Solution Combustion Synthesis: A wet chemical method for Preparation of Nano metal oxides'. International conference on Advanced Functional Materials for Energy: Environment and Health Care. Centre of Materials Science, Mysore University, Mysore. Chair person for a Technical Session 20, March 2019.
- **B. M. Nagabhushana** – 'Wet chemical Method for synthesis of nano-metal oxides', Guest Lecture for B.Sc and MSc chemistry students, Vijayanagara College, PG Centre, Hospet. 16-03-2019.
- **B. M. Nagabhushana** – 'Solution Combustion Synthesis: A versatile method for preparation of nano materials', National Science Day-2019, Kalpatharu Institute of Technology, Thiptur, 15-03-2019.
- **B. M. Nagabhushana** – 'Morphological effect on applications of nano metal oxides', International Conference on Recent Advances in Materials Science, held at National College, Tiruchirappalli (TN), 04 February 2019.
- **B. M. Nagabhushana**– 'Applications of nano-materials: Morphology matters', Faculty Development Program on 'Advances Materials for science and Engineering', organized by Department of Chemistry along with Physics, 2nd February 2019.

DEPARTMENT OF PHYSICS

Publications in (National/International) Journals

- **Dr. A. Jagannatha Reddy**- 'Photoluminescence and γ -Ray Induced Thermoluminescence Investigation of Phase Pure Cerium Doped Yttrium Silicate Nanophosphors' Asian Journal of Chemistry, 31 (4) - 2019.
- **Dr. K.L. Sandhya** – 'Photoluminescence study of liquid crystal- ZnO nanocomposites', Journal of molecular liquids, 274, 724, 2019.
- **Dr. K.L. Sandhya** - 'Influence of ZnO nanoparticles on the polarization, dielectric and electro-optic behavior in the Smectic C* and Hexatic I* phases', Journal of molecular liquids, 275, 421, 2019.
- **Dr. Raveendra M Melavanki, Dr. Kalpana Sharma** – 'Spectroscopic behavior, FMO, NLO and NBO analysis of two novel Aryl Boronic Acid derivatives: Experimental and Theoretical Insights', Journal of Molecular Structure, 1181, 2019.
- **Dr. Raveendra. M. Melavanki** – 'Synthesis and Computational studies on opto electronically important novel acridinium indoline-1, 3-dione derivatives', Journal of Fluorescence, 23, 2019.
- **Dr. Raveendra. M. Melavanki, Dr. Kalpana Sharma** – 'Exploring the Spectral features and quantum chemical computations', Chemical data collections, 19, 2019.
- **Dr. B. Siddlingeshwar** – 'Understanding the interaction of Carbon Quantum dots with CuO and Cu₂O by fluorescence quenching', Journal of Hazardous Materials, 45, 2019.
- **Dr. B. Siddlingeshwar** – ' Photoinduced electron transfer in non-covalent free-based octaethylporphyrin and 2-nitrofluorene donor-acceptor system', Journal of Molecular Liquids, 2019.

DEPARTMENT OF HUMANITIES



- Department organized One-day workshop on 'Electoral process and adult suffrage', on Monday, 22nd March 2019. There were about 35 to 40 BE I year students participated in the workshop headed by Dr. Premila Swamy D, HOD, and Mrs. Kanya kumari. S Assistant Professor gave presentation.



- Panel discussion followed by the presentation in One Day Workshop and participants had an interaction on 'Electoral process and adult suffrage', on Monday, 22nd March 2019.

Research papers participated & presented :

- **Dr. Premila Swamy D** - "Gender Dynamics in Select Short Fiction from the Northeast India: An Exploration" at the International Conference on Multiculturalism and Globalization in Commonwealth Literature organized by Indian Society for Commonwealth Studies in collaboration with Osmania University Centre for International Programmes held from 1st to 3rd February, 2019 at Osmania University Centre for International Programmes, Hyderabad, AP, India.

- **Mr. Udayakumar. H M** - "Going Digital: Making the Transformation Work for institutional growth and individual Well-Being at the workplace in IT industry", at the international conference: 1st Business Founders Conclave and Inaugural Conference held on 28th March, 2019 organized by Regional College of Management, Bangalore.

Faculty who obtained Ph.D



Smt. Premila Swamy D has been awarded Ph.D. from Bharathiar University, Coimbatore for the thesis titled "Social Concerns in the select works of Manju Kapur: A Study". She worked under the guidance of

Dr. Venkateswaran, Retired Professor & Director, RIE, Bangalore University Campus, Bangalore.

MASTER OF COMPUTER APPLICATIONS



- Department organized a 1-Week National Level Faculty Development Programme on "Blockchain Application Development using Hyperledger" from 28th January to 2nd February 2019 in association with IBM India and Integra Micro Software Services, Bangalore. There were 26 external participants from various states of India and 30 internal participants. Co-ordinated by Dr. M. Mrunalini and Dr. Manish Kumar.



- Abhyuday 6.0-Technical Fest conducted on 28th-29th March 2019 was a successful event with 11 UG and PG events over 2 days in which we had 143 participants from 19 different colleges and the overall champions were won by RV College of Engineering, Bangalore for PG and Presidency College, Bangalore for UG.

Publications in National / International Journals

- **P Ganesh, K Sailaja Kumar, D Evangelin Geetha, T V Suresh Kumar**, "Performance evaluation of cloud service with Hadoop for twitter data" Indonesian Journal of Electrical Engineering and Computer Science Vol. 13, No. 1, ISSN: 2502-4752, DOI: 10.11591/ijeecs.v13.i1.pp 392-404 January 2019.
- **Niranjanamurthy M, Bhawna Nigam, Niveditha N.M, Naresh E** - "Efficient Implementation of Refund Process in Online Shopping Industry Internal Tool-OMS" International Journal of Recent Technology and Engineering ISSN:2277-3878 (Online) (SCOPUS Indexed) Volume-7 Issue-6 March 2019.
- **Naresh E, Vijaya Kumar B. P, Niranjanamurthy M**- "Detection and Identification of a required keyword within an audio content" International Journal of Recent Technology and Engineering ISSN: 2277-3878 (Online) (SCOPUS Indexed) Volume-7 Issue-6 March 2019.

Paper presentation in National / International Conferences

- **Pushpaltha M N, Mrunalini M** - "Predicting the Severity of Closed Source Bug Reports using Ensemble methods" 2nd International Conference on Smart Computing and Informatics (SCI-2018)-Springer, PVPSIT, Vijayawada, Pg: 27-29, November, 2018.
- **S.Ajitha, R.Arun Kumar** - "Testing methodologies for Agents in a Multi-Agent Systems" at International conference on science, Technology, Engineering and Management (ICSETEM'19), KIT-Kalaingnar karunanidhi, Coimbatore, Tamilnadu, 22nd-23rd, March 2019.
- **Sowmya H.N, S. Ajitha** - "Predictive Analytics to overcome online cart abandonment", at International conference on science, Technology, Engineering and Management (ICSETEM'19), KIT-Kalaingnar karunanidhi, Coimbatore, Tamilnadu, 22nd -23rd, March 2019.

Guest Lecture Delivered

- **Dr. S Jagannatha** - delivered a Technical talk on "Amazon web services" for the Faculty Development Program on Blockchain Technology and cloud computing using amazon web services organized by P E S College of Engineering, Mandya on 21st -25th Jan 2019.
- **Dr. M. Mrunalini** was one of the resource persons for the 1-Week FDP on "Blockchain Application Development using Hyperledger". She delivered lecture on "Introduction to Blockchain, Advantages, Issues and Challenges" Conducted by Department of Master of Computer Applications, RIT - from 28th January to 2nd February 2019.
- **Dr. Manish Kumar** was one of the resource person for the 1-Week FDP on "Blockchain Application Development using Hyperledger". He delivered lecture on "Blockchain Application Development using online IBM platform" Conducted by Department of Master of Computer Applications, RIT - from 28th January to 2nd February 2019.

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

- **Dr. Niranjanamurthy M** - received Researcher award in the field of Computer Applications from Global Outreach Research and Education Summit & Awarded on 30th Jan 2019.

MASTER OF BUSINESS ADMINISTRATION

- The Department of Management Studies, Ramaiah Institute of Technology and Indian Council of World Affairs have jointly organized the Two Day National Seminar on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" on 4th and 5th Jan 2019. The host of the inaugural session was Dr. Padmalini Singh, Assistant Professor, Department of Management studies. The dignitaries present on the occasion were Chief Guest Shri. Parthasarathy, Former Indian Ambassador, Republic of South Korea, Dr.Samatha,, Indian Council of World Affairs, Dr. NVR Naidu, Principal, RIT, Dr CG Puttappa, Vice Principal, RIT, Dr.Archana, Registrar (Academics), RIT and Dr. P.V. Raveendra, HOD, Department of Management Studies, RIT. The inauguration program

started by seeking blessings of almighty, followed by lighting of the lamp by the dignitaries. Dr. P V Raveendra briefed the importance of understanding the Indian Foreign Policy and its impact on economic growth. Sir welcomed the gathering and introduced the Chief Guest Shri Parthasarathy and Dr. Samatha, Indian Council of World Affairs. The Chief Guest Shri. Parthasarathy addressed the gathering. He started with the appreciation note for Dept. of Management studies for organizing the National Seminar on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" which is a need of an hour.



- Department of Management Studies, Ramaiah Institute of Technology and National Commission for Women have jointly organized the Two Day National Seminar on "Cyber Age-Crimes against women and Legal protection measures" on 22nd and 23rd October 2019. The host of the inaugural session was Dr. G. Vijay Kumar, Assistant Professor, Department of Management studies. The dignitaries present on the occasion were Chief Guest Shri. Na. Vijay Shankar, Founder, Cyber Law Portal in India, Guest of Honour Dr. Shyamala S. Kundar, Member, National Commission for Women, Dr. Archana, Registrar, Academics, RIT and Dr. P V Raveendra, HOD, Department of Management Studies.

Dr. P V Raveendra welcomed the dignitaries, faculty members and participants from various institutions and introduced the Chief Guest Shri Na. Vijay Shankar. Dr. A. Mahalakshmi introduced and welcomed Smt. Shyamala S. Kundar for accepting the invitation to be part of the program. Dr. Archana, Registrar was also welcomed for her gracious presence. Further, Dr. A. Mahalakshmi briefed the rationale of the Seminar. Dr. Archana in her Presidential Address highlighted about Ramaiah Culture of treating women equally in all the cadres.



Publications in (National /International) Journals

- **Dr. Y.M. Satish-** "Private Equity Investments-A conceptual framework" in MERC Global's International Journal of Management, Vol: 7, Issue 1, Jan 2019, pp. 21-28, Impact factor 0.952.

Paper presentation in International /National Conferences

- **Dr. P.V. Raveendra-** "Role of Economic Policy in designing the foreign policy with special reference to Russia" in the National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places and Economic Power" Sponsored by ICWA Onb 4th & 5th Jan 2019.
- **Dr. P.V. Raveendra-** "Future of an emerging virtual Currency-Bitcoins in India" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA Onb 4th & 5th Jan 2019.
- **Dr. P.V. Raveendra-** "Factors influencing student's intention to pursue higher studies in foreign universities: A study with reference to Bengaluru region" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA Onb 4th & 5th Jan 2019.
- **Dr. Y.M. Satish,** -"An overview on India's Foreign trade-during post-reforms ERA" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
- **Dr. Rizwana. M,** - "Role of Economic Policy in designing the foreign policy with special reference

- to Russia" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
- **Dr. Rizwana. M,** -"Factors influencing student's intention to pursue higher studies in foreign universities: A study with reference to Bengaluru region" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Dr. A. Mahalakshmi,** - "Indian foreign policy-An overview of basic tenets in reconsideration" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Dr. A. Mahalakshmi,** - "Students opinion towards India's foreign Policy-Am empirical study" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Dr. S. Santhosh Kumar,** - "Tourism policy perspective for promoting International tourism in Karnataka" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Dr. G. Vijaya Kumar,**- "A theoretical study on NDA government's foreign policy with specific reference to PM's visits to foreign countries" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Dr. Padmalini** - "Factors influencing student's intention to pursue higher studies in foreign universities: A study with reference to Bengaluru region" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Mrs. Jyothi.E. Singh-** "The Indian Diaspora and Foreign Policy: A Boon in disguise" in the "National Conference on "New Directions in Indian Foreign Policy: People, Politics, Places, and Economic Power" Sponsored by ICWA on 4th & 5th Jan 2019.
 - **Dr. P.V.Raveendra-** "Value-based approach to overcome cyber-crime: case study approach" in the national seminar on "cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by National Commission for Women, New Delhi.
 - **Dr. P.V. Raveendra-** "A study on awareness among women about internet banking services with special reference to Shivamogga district" in the National Seminar on "Cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by National Commission for Women, New Delhi.
 - **Dr. P.V. Raveendra-** "Cyber-crime against women: Gift from the internet for the modern era," in the national seminar on "Cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by National Commission for Women, New Delhi.
 - **Dr. A. Mahalakshmi-** "Cybersecurity and privacy concerns of students and working professionals in Bangalore – an empirical study" in the National Seminar on "Cyber age-crimes against women and legal protection measures," on 22nd & 23rd March 2019 sponsored by National Commission for Women, New Delhi.
 - **Dr. S. Santhosh Kumar-** "A study on awareness among women about internet banking services with special reference to Shivamogga district," in the National Seminar on "Cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by the national commission for Women, New Delhi.
 - **Dr. S. Santhosh Kumar-** "Cyber-crime against women: gift from the internet for the modern era" in the national seminar on "cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by national Commission for Women, New Delhi.
 - **Mrs. S.B. Rashmi** - "AI in cyber security: a good or a bad? In the national seminar on "cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by the national commission for women, New Delhi.
 - **Arun Kumar. D.C-** "A study on awareness among women about internet Banking services with special

reference to shivamogga district" in the national seminar on "Cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by the national commission for Women, New Delhi.

- **Arun Kumar. D.C** - "Cyber-crime against women: Gift from the internet for the modern era," in the National seminar on "Cyber age-crimes against women and legal protection measures" on 22nd & 23rd March 2019 sponsored by National Commission for Women, New Delhi.
- **Vaijanath Babshetti** - "An exploratory study on creating awareness about the cyber threat to women" in the National seminar on "Cyber age-crimes against women and legal protection measures," on 22nd & 23rd March 2019 sponsored by National Commission for Women, New Delhi.

Guest Lectures Invited

- **Mr. Ajith Kaikini**- "CV writing and Interview facing skills," on 12-01-19.

Funded Project

- **Dr. A. Mahalakshmi** - National Seminar on "Cyber age-Crime against Women and Legal protection measures" funded by National Commission for Women, New Delhi- Rs. 1,85,500.
- **Dr. A. Mahalakshmi** - Project titled "Assessment of digital inclusion for capacity building among women entrepreneurs-An empirical study with reference to self-help groups in the rural areas of Bangalore and Coimbatore" funded by National Commission for Women, New Delhi- Rs.9,17,000.

SCHOOL OF ARCHITECTURE

- **10th anniversary of INSPIRIT on the 29th and 30th of March**

The School of Architecture, Ramaiah Institute of Technology celebrated it's the 10th anniversary of INSPIRIT on the 29th and 30th of March, the theme of which was SPECTRUM. INSPIRIT is an architecture and design fest which is held every year, the objective of which is to create an interactive platform to share experiences and innovative ideas among students and architects across the country.



- The guest speakers for INSPIRIT'19 were Ar. Arjun Malik of Malik Architecture, Ar. Madhav Raman of Anagram Architects and the keynote speaker for the event was Ar. Yann Follain of WY-TO, Singapore. Each of the speakers elaborated on their projects, giving insightful and enlightening inputs as they matched the enthusiasm of all the students, celebrating the spirit of the fest.



- 13th Annual ISOLA (Indian Society of Landscape Architecture) Conference at Kochi on Feb. 15th and 16th 2019 was attended by Ar. Lavanya Vikram and Ar. Surekha Ramineni.
- Paper engineering workshop by Arun Desai of Studio Chitte for 6th sem students. On 27th Feb 2019.
- Lake Visit and Lake Awareness Program to JP Park Lake, Mathikere as part of Terrain 2019 M.Arch Landscape Fest on 14th March 2019. Coordinators: Surekha R and Tejaswini H.
- Visit Puttenahalli Lake with Conservationist, Mrs. Usha Raj Gopalan on 15th March. Coordinators: Ranjitha Govindaraj and Jyotsna Rao.
- Panel Discussion on Education v/s Practice as part of Inspirit, B.Arch Fest on 29th March 2019. Panel

consisted of Prof. Pushpa Devanathan (HOD, SOA RIT), Ar. Shahrukh Mistry (Mistry Architects), Dr Rama Subramaniam (Director, DSCA) and Ar. Akshay Hiranjal (Purple Ink Studio) and Ar. Aditi Pai (Purple Ink Studio) and Ar Swetha Manivannan (Co-Founder Unbind), Kkanchee Ratadia (Student Representative, 8th sem, SOA, RIT).

- Thinking Design Perception, a workshop on Product Design by Kunal Bakshi as part of Inspirit, B.Arch Fest on 29th March 2019.
- Earthen Hue's workshop on Mud Construction by Rosie Paul and Sri Devi Change alias part of Inspirit, B.Arch Fest on 30th March 2019.
- Parametric Modelling by Er. Aruna Gopal and Ar. Yashas Hedges part of Inspirit, B.Arch Fest on 30th March 2019.

Guest Lecture/s – Invited

- Reading Contours by Ar. Prasad G of Dhruva Associates for 6th Sem students was held on 1st March 2019.
- Architectural Democracy by Ar. Pedro Albeo of Alvar Aalto University, Finland for 6th and 8th sem students.
- Landscape Architect by Ar Rohit Marol, Keynote speaker for Terrain 2019 M.Arch Landscape Fest on 13th March 2019.
- Conservation and Habitat Improvement by Dr. Krishna M B, Ornithologist, speaker for Terrain 2019 M.Arch Landscape Fest on 13th March 2019.
- M. Arch Landscape Thesis Presentation on Conservation of Mandovi River and Conservation of Coral Reef Ecosystem by alumni Ar. Shruthi Hiremath and Ar. Aishwarya K, speakers for Terrain 2019 M.Arch Landscape Fest on 14th March 2019.
- Lake Rejuvenation by Ar. Prasad G of Dhruva Associates for Terrain 2019 M.Arch Landscape Fest on 14th March 2019.
- Landscapes and Bluescapes, by Ar. Sudhir Chougule of Ecolnscape for Terrain 2019 M.Arch Landscape Fest on 16th March 2019.
- Integrating Nature into Architecture, Arjun Mallik, Mallik and Mallik Associates, Mumbai as part of Inspirit, B.Arch Fest on 29th March 2019.

- Sanitation in Rural India, Ar. Madhav Raman, Anagram Architects, Delhi as part of Inspirit, B.Arch Fest on 30th March 2019.
- Design for People, Time, Environment and Life by Ar. Yann Follain from WY- TO, Singapore as part of Inspirit, B.Arch Fest on 30th March 2019.

Achievement – Students

- D Keerthana Reddy, Gagan Dhaliwal and Rahul CH participated in Archcult'19 held at National Institute of Technology, Tiruchirappalli, from 22nd to 24th February, 2019. They were awarded 1st position in the event Zak'Yanta Design Competition.
- Students of the School of Architecture, RIT –were awarded the first place for the Design Trophy at the architecture fest held at Brindavan college of Architecture. Vikas Pawar and Shruti Pulupula of 10th Sem were the 2nd Runners-up at the Archumen 16.0-The Southern Interface.
- M. Arch Landscape Post Graduate students of RIT took part in the Design Competition – SCIF Placemaking Forum "Reimagining Urban Spaces" held at Dayananda Sagar College of Engineering on March 23rd, 2019.
- **Neha Rastogi, Poornima KP, Gayathri S Pillai and Sneha Banakar** were awarded 1st place for their entry "Dynamism at Majestic Metro Station" Pranathi S, R Nikhil, Namratha M and Sushmitha S were the first runners up i the same competition.

- *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.*
- *Let me define a leader. He must have vision and passion and not be afraid of any problem. Instead, he should know how to defeat it. Most importantly, he must work with integrity.*

A. P. J. Abdul Kalam

- *Power is of two kinds. One is obtained by the fear of punishment and the other by acts of love. Power based on love is a thousand times more effective and permanent than the one derived from fear of punishment.*
- *Strength does not come from physical capacity. It comes from an indomitable will.*

Mahatma Gandhi

PLACEMENT & TRAINING DEPARTMENT

- **317** Companies visited & **1324 offers** made. This is all put together i.e., MBA, MCA, MTech & BE.
- **37** startup companies on campus for the recruitment drive.
- Nearly **33** companies are first-time visitors.
- Campus selections by Armed Forces.
- Overseas campus recruitments.
- Highest package **40.63 LPA.**

Achievements



- Training & Placement Officer awarded with "Award of Excellence – Placement Leader" by Dr. Kalpana Gopalan, IAS, Additional Chief Secretary, Government of Karnataka during the event WeLeed Women Achiever's Award-2019.

JSW Selected Students



Anmol Ratan

USN - 1MS15EE069



Anwarali M Shaikh

USN - 1MS15ME029



AshishKumar

USN - 1MS15EE007



Karthik G

USN - 1MS15ME071



M Deepa

USN - 1MS15ME084



Meghana

USN - 1MS15ME095



Nikhil Sakry

USN - 1MS15ME113



Nisha Grace Joy

USN - 1MS15ME206



Prakriti Gupta
USN - 1MS15CH042



Samarth M O
USN - 1MS15ME212



Sidhant
USN - DAS1MS15ME173



Sweta Shamria
USN - 1MS15CH061



Batte Hemanth
USN - 1MS15ME040



N Sushma
USN - 1MS15EE028



Sachinkumar K H
USN - 1MS15ME152

NATIONAL SERVICE SCHEME

30th NATIONAL ROAD SAFETY WEEK



- Keeping the increasing negligence towards road safety in mind, an event '30th National Road Safety week' was organized in association with the Transport Department (Yeshwanthpur) on 8th of February 2019. Sri. S. Balakrishna (Deputy Commissioner for Transport & Senior Regional Transport Officer, Bangalore North, Yeshwanthpur), Sri. H Rajanna (Senior Inspector of Motor Vehicle, Bangalore North, Yeshwanthpur) and Dr. Girish Chandra (Professor, Forensic Medicine, M S Ramaiah Medical College, Bangalore) and Dr. N. V.R. Naidu (Principal, Ramaiah Institute of Technology) were presided in the event.



- Sri. S. Balakrishna, gave a presentation on introduction about the importance of the need to spread awareness about road safety measures. Sri. H Rajanna spoke about how houses are being constructed without keeping in mind the space needed to construct roads for general public. The various other reasons which lead to accidents were highlighted as well. It was clear that although there is no guarantee that these preventive measures will be able to avoid fatal cases of road accidents, we can definitely avert the danger by remaining vigilant on the road and following all the safety rules.

ARTICLE 326 – A demonstration of EVM and VVPAT



- A demonstration of EVM and VVPAT was organized in the ESB Seminar Hall to raise awareness about the same. The event was presided by Sri. Sanjiv Kumar IAS, Chief Electoral Officer, Karnataka and Sri. N Manjunath Prasad IAS, District Election Officer, Bengaluru and Commissioner, BBMP along with other officials from the Election Commission of India. The attendees were informed about the importance of casting a vote and the exact procedure of how to go about it. It was also clarified that with the introduction of VVPAT, one can be assured that his/her vote has been casted correctly. The highlight of the event was the mock voting procedure, wherein the attendees were given an opportunity to use the VVPAT and cast dummy votes and get an idea of how the actual procedure might be. VVPAT is intended as an independent verification system for voting machines designed to allow voters to verify that their vote was cast correctly.

DEPARTMENT OF SPORTS

Republic Day Celebration

- All nine GEF Institutions participated in the celebration of the 70th Republic Day function. The flag was hoisted by Sri. Ramaprasad, Chief Executive, GEF (Engg & GS) and the program was witnessed by Sri. G Ramachandra, Chief of Finance, GEF, Dr. NVR Naidu, Principal, RIT, Dr. C G Puttappa, Vice-Principal, RIT Dr. Archana, Registrar Academic, RIT and all the Principals of GEF Institutions.



- Organized 3rd Intra GEF Institutions Athletic Meet on 16th March 2019. The athletic meet was inaugurated by Sri. Ramaprasad, Chief Executive, GEF, Chief Guest of the program and speech given by Sri. G Ramachandra, Chief of Finance, GEF, Guest of Honor of the Athletic Meet and presided by Dr. C G Puttappa, Vice-Principal, RIT. All the Principals of GEF Institutions have witnessed the inauguration. Six GEF Institutions took part in the Athletic Meet – Ramaiah Law College, Ramaiah Institute of Management, Ramaiah Arts, Science & Commerce College, Ramaiah University (Peenya Campus and Janagangothri Campus) and Ramaiah Polytechnic College.





- Women Individual Champion bagged by Riya D'Souza of RIT and Men Individual Championship secured by Manoj Kumar, Ramaiah Pharmacy College, Ramaiah University.



- Men Championship, Women Championship and Overall Championship Award bagged by Ramaiah Institute of Technology Team.

Sports Achievements (VTU)

- Cricket: Men team secured winner's trophy in VTU Bangaluru Central Zone tournament 2018-19 held at SEA College of Engineering, Bangaluru held from 6th to 14th March 2019.
- Basketball : WINNERS in RVCE "MOMENTUM-2019" Inter Engineering Colleges Basketball Tournament-2019 from 8th to 10th February 2019 finals v/s RVCE.
- Basketball : WINNERS in "GOLDEN JUBILEE" State Level Inter-Collegiate Basketball Tournament - 2019 held from 25th & 26th Feb. 2019 Org. By: St. Joseph's College of Management finals v/v Christ University.



- WINNERS in "REVELS-2019" All India Invitational Inter-Collegiate Basketball Tournament-2019 held from 6th to 9th March 2019 Org. By: MIT, Manipal finals v/s BMSCE.
- RUNNERS in "SPIEL-2019" Inter-Collegiate Basketball Tournament-2019 from 9th to 15th Feb. 2019 Org. By: St. Joseph's Commerce College finals v/s St. Joseph Commerce College.
- RUNNERS in REVOTHSAVA-2019" All India Inter University Basketball Tournament-2019 held from 23rd to 25th March 2019 Org. By: Reva University, Bangalore finals v/s Hindustan University, Chennai.
- Cricket: WINNERS in Sri. Chamaraju Memorial Cricket tournament-2019 held from 18th Feb. to 1st March 2019 Org. By: RVCE finals v/s RVCE.
- BADMINTON: MEN - RUNNERS in RVCE "MOMENTUM-2019" Inter Engineering Colleges Basketball Tournament-2019 from 8th to 10th Feb. 2019 finals v/s RVCE.
- RUNNERS in Inter Engineering Colleges Badminton Tournament-2019 from 8th to 9th March 2019 Org. By: NMIT, Bangalore, Finals v/s NMIT.
- TENNIS: WOMEN - WINNERS in RVCE "MOMENTUM-2019" Inter Engineering Colleges Basketball Tournament-2019 from 8th to 10th Feb. 2019 finals v/s RVCE.
- BADMINTON: WOMEN- WINNERS in RVCE "MOMENTUM-2019" Inter Engineering Colleges Basketball Tournament-2019 from 8th to 10th Feb. 2019 finals v/s RVCE.
- HOCKEY: MEN - RUNNERS in State Level Inter Collegiate Hockey Tournament-2019 held from 14th to 17th March 2019 Org. by II Sc., Bangalore Finals v/s The Oxford College of Engineering.

DEPARTMENT OF EXTRA-CURRICULAR ACTIVITIES

- TEDx MSRIT was organized on campus on 2nd March 2019 with an array of eminent and accomplished speakers as shown in the image. They delivered their lectures and went on to inspire and inform the audience about various aspects of life and the desired changes in the Society that they have been able to bring about.



ALUMNI ASSOCIATION

- Distinguished Alumni Talk - Sri. Sridhar Pabbisetty, Chief Enabler for Centre for Inclusive Governance gave a talk on 'Citizen - A Citizens' Guide to Being a Responsible Citizen' on 1st March 2019 at the institute. During the presentation he talked on Transparency, Accountability, Decentralization of the systems and How Citizens can participate and contribute.
- Merit and Means scholarship of Rs 10,000/- each was awarded to 45 students, Shri Krishna P Godasi Scholarship of Rs 11,14,710/- instituted by SOMA Enterprises was awarded to 23 students. Project funding of Rs 1.62 lakh was given to 32 UG and PG projects of all departments. 33 students received a support of Rs 1750/- each for making Bus Pass.

NEW APPOINTMENTS

Department of Mechanical Engineering

Dr. K.R.V. Subramanian - Professor



Dr. K.R.V. Subramanian joined as Professor, Mechanical Engg. and Co-Coordinator- Research, RIT in Feb 2019. He has B.E degree from NIT Trichy in 1992 and M.E degree from IISc, Bangalore in 1994. He earned his Ph.D. in Nanotechnology from Cambridge University in 2006. He has more than 20 years of work experience in academia and industry. He has published more than 100 journal and conference papers and edited 2 books.

Department of MCA

Dr. Yogish H K - Professor & HOD



Dr. Yogish H K appointed as Professor and Head, Department of Computer Applications. He completed his B.E in Computer Science and Engineering from PESCE, Mandya, Mysore University, M.Tech in Computer Engineering from SJCE Mysore, VTU Belagavi and Ph.D. in Computer Science at Bharathiar University, Coimbatore. He has published and presented 57 papers at National/International Conferences/Journals. He has authored three textbooks and has extensive experience of 20+ years of Teaching Experience and worked in various capacities from Lecturer to Professor. He is supervising Seven Ph.D. Scholar in VTU, Belagavi.

RANK HOLDERS

Department of MBA



Priya.S.Kalgutkar
 USN - 1MY16MBA41
 RANK - I



Priyadarshani.S
 USN - 1MY16MBA43
 RANK - II



Swathy.S
 USN - 1MS16MBA56
 RANK - III



Sadhana Nayak
 USN - 1MY16MBA49
 RANK - IV

"Arise, Awake And Stop Not Till The Goal Is Reached".

Briliant Leader

While Swami Vivekananda Ji stayed at Chicago, he used to go to library every day and borrow a large volume of books and then returned to librarian in a day time. This went on for few days, librarian got frustrated and asked Vivekananda Ji, why do you borrow books when you doesn't want to read them. Swami Ji replied, I have finished reading all these books. Librarian felt annoyed as she thought it was impossible to read so many books in just a day, every day. She decided she would take a test and selected random page from the book and asked him about what was written on that Page. Vivekananda Ji instantly repeated all the lines exactly as they were written in that book. Librarian was surprised, She thought to her herself maybe it was lucky chance so she asked several more questions from the book, Swami ji took the library to read, Vivekananda Ji answered all of them without a flaw.

"Even the greatest fool can accomplish a task if it were after his or her heart. But the intelligent ones are those who can convert every work into one that suits their taste."

The Power of Concentration

While Swami Vivekananda was in America, some boys were standing on the bridge and trying to shoot eggshells that were floating in the water they failed almost at every try, Vivekananda who was watching them from a distance went close to them, took the gun and fired twelve times, and every time he fired, he hit the eggshell. The inquisitive boys asked him how he did it? He replied, 'whatever you are doing, put your whole mind on it. If you are shooting, your mind should be only on the target. Then you will never miss. If you are learning your lessons, think only of the lesson.

By : Swami Vivekananda

Advantage RIT

- Proven track record spanning 56 years, in engineering education
- Strategically located in the heart of Bangalore City offering excellent connectivity and convenience
- State-of-the-art infrastructure and facilities comparable to international standards
- High qualified and committed faculty, constantly evolving teaching methodology
- Faculty to student ratio of 1:15- among the best in the industry
- Industry – oriented instructional content to ensure strong synergy with the changing requirements
- Strong relationship with leading names in the industry
- Several departments involved in various prestigious projects
- Focus on all round development to enable professionals to deliver in a dynamic ecosystem
- Excellent placement record- 90-95% achieved year-on-year

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 Medical College
 Ramaiah Institute of Physical Medicine & Rehabilitation (Physiotherapy)
 Ramaiah Institute of Management
 Ramaiah College of Law
 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
 Sri Yoginareyana Study Centre
 Ramaiah Clinical Research Centre
 Ramaiah University of Applied Sciences
 Ramaiah Harsha Hospital
 Ramaiah Leena Hospital
 Ramaiah Clinic
 Ramaiah Public Policy Centre

Quotes on Education

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

- Kofi Annan

Education is the key to success in life, and teachers make a lasting impact in the lives of their students

- Solomon Ortiz

Education is the passport to the future, for tomorrow belongs to those who prepare for it today

- Malcolm X

Education is the movement from darkness to light

- Allan Bloom

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

- Nelson Mandela

Health Corner - Health benefits of whole grains

Whole grains are the seed or kernel of plants that store nutrients important in our diet, and have been shown to have positive health benefits. Examples: millets, wild rice, barley, brown rice etc. Whole grains have been a part of the human diet for tens of thousands of years. But proponents of many modern diets, such as the paleo diet, claim that eating grains is bad for your health. While a high intake of refined grains is linked to many health problems.

Whole-grain kernels have three parts: (i) Bran: This is the hard, outer shell. It contains fiber, minerals, and antioxidants. (ii) Endosperm: The middle layer of the grain is mostly made up of carbs. (iii) Germ: This inner layer has vitamins, minerals, protein, and plant compounds. Grains can be rolled, crushed, or cracked. Nonetheless, as long as these three parts are present in their original proportion, they're considered whole grains. Refined grains have had the germ and bran removed, leaving only the endosperm. Whole grains deliver many important nutrients. These include: Fiber, Vitamins, Minerals, Protein and Antioxidants. In fact, eating whole grains is associated with various benefits, including a lower risk of diabetes, heart disease, stroke, prevent colorectal cancer, high blood pressure and lower risk of dying prematurely from any cause.

RAMAIAH INSTITUTE OF TECHNOLOGY

MSR Nagar, MSRT Post, Bangalore- 560054- Ph.: 080-23600822, 23606934 Fax: 23603124
www.msrit.edu