



DR. M.S. RAMAIAH
CENTENARY
YEAR CELEBRATIONS



RAMAIAH
Institute of Technology



PIONEERING' EXCELLENCE IN ENGINEERING EDUCATION



PROSPECTUS

ರಾಮಯ್ಯ ತಂತ್ರಿಕ ಋಹಾ ವಿದ್ಯಾಲಯ

RAMAIAH INSTITUTE OF TECHNOLOGY

(Autonomous Institute, Affiliated to VTU)

Approved by AICTE, New Delhi & Govt. of Karnataka

Accredited by NBA & NAAC with A⁺ Grade

www.msrit.edu

RAMAIAH ANTHEM

ಜ್ಞಾನಂ ವಿಜ್ಞಾನಂ ಚ ಭಕ್ತಿ ಸಹಿತಂ

ಶ್ರೀ ಗಣನಾಥುನಿ ಶಾರದ
ಸತ್ಯವುಲನು ಸಹಜಯೋಗಿ ಮುನುಲನು ಸುರುಲನ್ |
ದೇವಬ್ರಾಹ್ಮಣ ಧನ್ಯುನಿ
ಸಕಲಾಂತರ್ಯಾಮಿ ಹರಿನಿ ಚಾಲ ಭಂಜಿತುನ್ ||

ಜ್ಞಾನ ವಿಜ್ಞಾನ ವಿದ್ಯಾ ವಿನಯ ಭೂಷಣ
ಈ ರಾಮಯ್ಯ ಸಮೂಹ ಸಂಸ್ಥಾನ |
ತಾರೆ ನೀಹಾರಿಕೆಯಾಗಲಿ ಈ ಮಾಲಿಕೆ
ಜಯವೆನ್ನುವ ಜಯವೆನ್ನುವ ಈ ಸಂಸ್ಥಾನಕೆ || ಪ ||

ದ್ರಷ್ಟಾರರು ಕಟ್ಟಿದ ಕನಸಿನ ಸಾಮ್ರಾಜ್ಯವಿದು
ದೀಪದೊಳು ಪ್ರದೀಪಗಳ ಬೆಳಗುವ ಶ್ರದ್ಧಾಸ್ಥಾನವಿದು |
ಅರಿವಿನ ದಿಗಂತದಾಚೆಗೆ ಜಿಗಿಯುವ ಸಂಪನ್ಮೂಲವಿದು
ಗ್ರಹ ಗ್ರಹದಲಿ ಗೃಹ ನಿರ್ಮಾಣಕೆ ತಂತ್ರಜ್ಞಾನದ ಸೋಪಾನವಿದು || 1 ||

ಮಿತಿ ಇಲ್ಲದ ಅಮಿತ ಜ್ಞಾನಕೆ ಸಾಧನ ಕ್ಷೇತ್ರವಿದು
ಪ್ರತಿ ಪ್ರತಿ ಪ್ರತಿಭೆಯು ಸಾಧನೆ ಮಾಡಲು ಸ್ಪೂರ್ತಿಯ ಕೇಂದ್ರವಿದು |
ಅಜ್ಞಾನದ ಕತ್ತಲ ನೀಗುವ ಸುಜ್ಞಾನದ ಸೂರ್ಯನ ರಶ್ಮಿಯಿದು
ಜಗದೋದ್ಧಾರದ ಹೊಂಗನಸನು ಹೊತ್ತಿಹ ಅರಿವಿನ ತಾಣವಿದು |
ಅರಿವಿನ ಹಣತೆಯು ಬೆಳಕನು ಚೆಲ್ಲಿದೆ
ಅಸಂಖ್ಯಾತ ಕಿರಣಗಳು ಎಲ್ಲೆಡೆ ಹೊರಹೊಮ್ಮಿವೆ || 2 ||



- As per National Institutional Ranking Framework, MoE, Govt. of India. 2022

RIT Ranked

#67

Best Engineering
Institute Among 1249
Reputed Institutes
in India

#17

Best Architecture College
Among 91 Reputed
Architecture Colleges in
India

#1

Among Engineering Colleges
Affiliated to VTU, Karnataka

A TRIBUTE TO A NOBLE SOUL



Dr. M.S. Ramaiah
(1922 - 1997)
Founder Chairman,
Gokula Education Foundation

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

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



TRIBUTE TO A VISIONARY

Celebrating 100 years of this Great Iconic Figure



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

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

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

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

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

In 1972 he facilitated water, electricity and innovative agricultural practices to plant numerous trees. He won an Asian record for being a single individual to nurture so many trees, he was also the first person to implement drip irrigation in private farms.

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

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

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

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

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

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



*What we have done for ourselves alone dies with us.
What we have done for others and the world remains
and is immortal.*

- Dr. M. S. Ramaiah





MSRIT - 60 years Journey of Impeccable Academic Excellence

I congratulate the M.S. Ramaiah Institute of Technology, Bangalore on their Diamond Jubilee celebrations. In these sixty years, the institute has come a long way in imparting education in the fields of engineering, technology, and management.

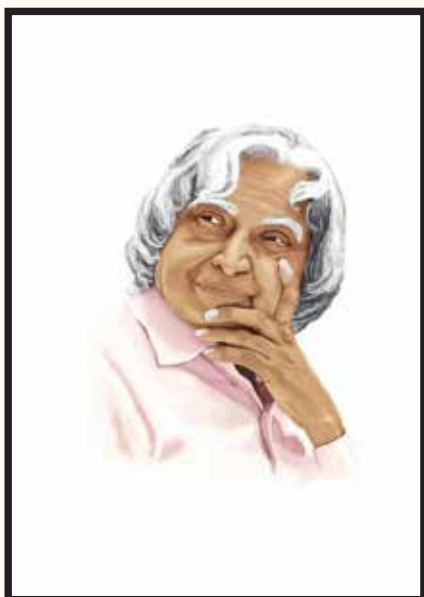
Since ancient times, India has been the centre of higher learning. Education has helped civilisations grow and India has always been pioneering new educational avenues, whether spiritual or otherwise.

It has been an endeavour of the Government to reinforce qualitative improvement in the learning process and educational infrastructure throughout the country. With sustained efforts, and participation from institutes such as M.S. Ramaiah Institute of Technology, we are confident of building the new India of the 21st century.



Sri Pralhad Joshi

Hon'ble Minister
Parliamentary Affairs,
Coal and Mines,
Govt. of India



MSRIT - A Momentous Journey Spanning 50 Years....

The year 2011-12 is a Golden Jubilee Year and MSRIT launched the celebration with a glittering inauguration event graced by His Excellency, Prof. APJ Abdul Kalam, Former President of India. Speaking on the occasion, Prof Kalam succinctly summed up MSRIT's seminal contribution to engineering education and the nation as follows...

"During the last 50 years, MSRIT would have generated around 50,000 engineers and technologists who are deployed in various fields in India and abroad..."

GOKULA EDUCATION FOUNDATION



Dr. M.R. Jayaram
Chairman,
Gokula Education Foundation



Sri. M.R. Seetharam
Vice-Chairman,
Gokula Education Foundation &
Director, Ramaiah Institute of Technology



Sri. M.R. Ramaiah
Secretary,
Gokula Education Foundation &
Director, Ramaiah Institute of Technology



Sri. B.S. Ramaprasad IAS (retd.)

Chief Executive,
Gokula Education Foundation

We at M.S. Ramaiah Institute of Technology complete 60 years in 2022, a truly momentous occasion. Today we are known as one of India's leading names in engineering education, a matter of great pride for all of us.

Since inception, MSRIT has been guided by the foresight and zeal of our visionary Founder Chairman Dr. M.S. Ramaiah who nurtured this institution through its most crucial years. Dr. M.S. Ramaiah also identified and brought in professionals of impeccable character, qualification and qualities, encouraging them to participate in the institution's growth, a move that contributed significantly to our success all along. As we celebrate our Golden Jubilee, we wish to offer our grateful thanks to all those who contributed in their various capacities to help us achieve this stature.

Post the demise of Dr. M.S. Ramaiah in 1997, MSRIT has been ably led by his heirs, led by the current Chairman Dr. M.R. Jayaram who took over the helm. Under his guidance, MSRIT has seen significant investments in infrastructure & facilities and academic resources, besides notable enhancements in administrative processes.

Throughout its journey, MSRIT has been responsive to the industry's needs, be it introducing new programs, forging alliances or acquiring equipment and resources. Going forward, we realise engineering education will be strongly about value addition and the creation of multi-faceted professionals with an ability to confidently perform in a rapidly changing ecosystem. Our focus would also be to partner with the industry in pushing the envelope of innovation and address challenges that would have a wider impact on the marketplace and the number of patents we have applied for in recent years reflects this thinking.

We are now amidst an era of rapid change and are confident of managing this aspect by realigning, reorienting, restructuring and redefining all paradigms within our control efficiently and effectively to stay the pioneer we have always been.



Dr. N.V.R Naidu, M.Tech, Ph.D
Principal, RIT

Ramaiah Institute of Technology (RIT) is an institution that has consistently been regarded for its high reputation and stakes in the field of quality technical education. It has emerged as one among the top ranking technical educational institution as per National Institutional Ranking Framework (NIRF). RIT has also been the most sought-after for bright merited and career oriented students. It offers academically vibrant environment with scope for holistic development of students and imparting all the attributes required for the students to meet global challenges. These attributes have made RIT stand unique among various other technical educational institutions. As an academically autonomous institution since 2007, many best practices are being followed in the institution like outcome based contemporary curriculum which is industry friendly having scope for innovation and creativity, flexibility with choice based credit system and grading system of evaluation to match to international standards. The departments of the institution have emerged as Centres of excellence in the areas of the thrust and are committed to generating technical manpower having skills and proficiency to address and face the challenges of the competitive world with social concern.

RIT has been successful in creating more entrepreneurs and also provides incubation facility to nurture the best ideas of students. RIT provides an environment which is conducive to promote sports and cultural activities to make students proficient in extra-curricular skills. Students are also encouraged to participate in national/international events for better exposure. Excellent placements by most of the reputed companies and many students opting for higher studies, civil services exams and services in armed forces shows the commitment of the institution to meet aspirations of students. This brochure has all pertinent information about the institution to facilitate all stake holders to know RIT better.

VISION

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

MISSION

RIT shall meet the global socio-economic needs through :

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

GOVERNING BODY

Dr. M.R. Jayaram

Chairman, GEF

Sri. M.R. Seetharam

Vice Chairman, GEF
Director, RIT

Sri. M.R. Ramaiah

Secretary, GEF
Director, RIT

Sri. M.R. Kodandaram

Trustee, GEF

Sri. M.R. Sampangiramaiah

Trustee, GEF

Sri. B.S. Ramaprasad

Chief Executive,
GEF (Engg. & General Sciences)

Dr. V.K. Aatre

Former Scientific Advisor to Raksha Mantri
Secretary, Dept. of Defense, R&D
Director General, DRDO, Bangalore

Prof. Satish C Sharma

Professor & Head,
Dept. of Mechanical & Industrial Engg.
IIT, Roorkee, UGC Nominee

Dr. H.P. Khincha

Chairman, Karnataka State Innovation Council
Former Vice Chancellor, VTU, Belgaum

Dr. K.G. Chandrashekar

Principal, Govt. SKSJTI, Bangalore
State Govt. Nominee

Dr. Vinod Kumar Nowal

Deputy Managing Director,
Jindal Steel Works, Bellary

Dr. H.C. Nagaraj

Principal, Nitte Meenakshi
Institute of Technology, Bangalore
VTU Nominee

Sri. G. Ramachandra

Chief Finance Officer,
GEF (Engg. & General Sciences)

Dr. Anita Kanavalli

Professor & Head,
Artificial Intelligence & Data Science

Dr. Archana

Registrar (Academics)

Dr. Pradipkumar Dixit

Vice Principal

Dr. N.V.R. Naidu

Principal & Member Secretary

ACADEMIC COUNCIL

Dr. N V R Naidu
Principal & Chairman

Dr. Y Narahari

Professor, Computer Science & Automation, IISc, Bangalore

Dr. Parasuram Balasubramanian

Theme Work Analytics (P) Ltd., Bangalore

Dr. V Gopalakrishna

Director, Integra Micro Systems (P) Ltd, Bangalore

Dr. J K Kittur [VTU nominee]

I/c Principal, Gogte Institute of Technology, Belagavi

Dr. Swarnalatha K S [VTU nominee]

Professor, Dept. of ISE, Nitte Meenakshi Institute of Technology, Bangalore

Dr. Pradipkumar Dixit

HOD, Electrical & Electronics Engineering

Dr. Maya V Karki

HOD, Electronics & Comm. Engineering

Dr. Annapurna P Patil

HOD, Computer Science & Engineering

Dr. Sanjay H A

HOD, Information Science & Engineering

Dr. C K Narayanappa

HOD, Medical Electronics Engineering

Dr. Anita Kanavalli

HOD, Artificial Intelligence & Data Science

Dr. Thippeswamy M N

HOD, Computer Science & Engg. (AI&ML)
& Computer Science & Engg. (Cyber security)

Dr. A Jagannatha Reddy

HOD, Physics

Dr. N L Ramesh

HOD, Mathematics & I/c Humanities

Dr. P V Raveendra

I/c HOD, Master of Business Administration

Dr. K R V Subramanian

Head, R&D

Dr. Raghuram S

Associate Professor, Electronics & Comm. Engg.

Dr. Ahalya N

Associate Professor, Biotechnology

Dr. Vikram M Gadre

Professor, Dept. of Electrical Engineering, IIT, Bombay

Sri. A T Samuel

Director, STUP Consultants, Bangalore

Sri. Babu Sathain V

Managing Director Process Pumps(I) Pvt. Ltd, Bangalore

Prof. Salim Iddalagi [VTU nominee]

Professor, Dept. of ECE, Basaveshwar Engineering College
Bagalkote

Dr. Raji George

HOD, Mechanical Engineering

Dr. I Venugopal

HOD, Civil Engineering

Dr. N D Prasanna

HOD, Industrial Engineering & Management

Dr. M K Pushpa

HOD, Electronics & Instrumentation Engineering

Dr. B K Sujatha

HOD, Electronics & Telecommunication Engg.

Dr. Chandraprabha M N

HOD, Biotechnology

Dr. Jagadish Kallimani

HOD, Artificial Intelligence & Machine Learning

Ar. Pushpa Devanathan

HOD, School of Architecture

Dr. B M Nagabhushana

HOD, Chemistry

Dr. Seema S

HOD, Master of Computer Applications

Dr. G S Prakash

Controller of Examinations

Dr. G M Madhu

Professor, Chemical Engineering

Dr. Viswanath Talasila

Professor, Electronics & Telecommunication Engg.

Dr. Archana

Registrar (Academics) & Member Secretary

ALL THE HEADS OF THE DEPARTMENTS

1 Dr. Raji George

Department of Mechanical Engineering

2 Dr. Pradipkumar Dixit

Department of Electrical & Electronics Engineering

3 Dr. I Venugopal

Department of Civil Engineering

4 Dr. Maya V Karki

Department of Electronics & Communication Engineering

5 Dr. Archana

Department of Chemical Engineering

6 Dr. N D Prasanna

Industrial Engineering & Management

7 Dr. Annapurna P Patil

Department of Computer Science Engineering

8 Dr. M K Pushpa

Department of Electronics & Instrumentation Engineering

9 Dr. Sanjay H A

Department of Information Science & Engineering

10 Dr. B K Sujatha

Department of Electronics & Telecommunication Engineering

11 Dr. C K Narayanappa

Department of Medical Electronics Engineering

12 Dr. Chandrababha M N

Department of Biotechnology

13 Dr. Anita Kanavalli

Department of Artificial Intelligence & Data Science

14 Dr. Jagadish S Kallimani

Department of Artificial Intelligence & Machine Learning

15 Dr. Thippeswamy M N

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning) & Computer Science and Engineering (Cyber Security)

16 Dr. Pushpa Devanathan

Department of Architecture

17 Dr. A Jagannatha Reddy

Department of Physics

18 Dr. B M Nagabhushana

Department of Chemistry

19 Dr. N L Ramesh

Department of Mathematics & Department of Humanities, In-charge

20 Dr. Seema S

Master of Computer Applications (MCA)

21 Dr. P V Raveendra

Masters of Business Administration (MBA), In-charge

PROGRAMS OFFERED

MSRIT offers wide range of programs at UG, PG and doctorate level enabling students to pursue excellence in their chosen streams. All programs are recognized by the concerned Statutory bodies and Government agencies.

UNDERGRADUATE Programs

MSRIT offers the following 4 year Bachelor's Degree programs in engineering

MECHANICAL ENGINEERING

ELECTRICAL & ELECTRONICS ENGINEERING

CIVIL ENGINEERING

ELECTRONICS & COMMUNICATION ENGINEERING

CHEMICAL ENGINEERING

INDUSTRIAL ENGINEERING & MANAGEMENT

COMPUTER SCIENCE & ENGINEERING

ELECTRONICS & INSTRUMENTATION ENGINEERING

INFORMATION SCIENCE & ENGINEERING

ELECTRONICS & TELECOMMUNICATION ENGINEERING

MEDICAL ELECTRONICS ENGINEERING

BIOTECHNOLOGY

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

COMPUTER SCIENCE & ENGINEERING
(Artificial Intelligence and Machine Learning)

COMPUTER SCIENCE & ENGINEERING (Cyber Security)

Eligibility: The candidate who has passed in 2nd PUC / 12th Std equivalent exam with English as one of the languages and obtained a minimum of 45% of Marks in aggregate in Physics and Mathematics along with Chemistry / Biotechnology / Biology / Electronics / Computer. 40% marks are required for SC, ST, Cat-1, 2A, 2B, 3A and 3B category candidates. The merit /rank is determined by taking marks in equal proportions in QE and CET in PCM subjects.

5 YEAR BACHELOR'S DEGREE IN ARCHITECTURE

Eligibility: The candidate who has passed in 2nd PUC / 12th Std / equivalent exam with English as one of the languages and obtained 50% marks in Physics, Chemistry, Mathematics and also 50% marks in aggregate at 2nd PUC / 12th Std / Equivalent Exam in all the subjects. 45% marks are required for SC, ST, Cat-1, 2A, 2B, 3A and 3B category candidates and person with disability of mental retardation or mental illness (including Dyslexia) The merit /rank is determined based on norms prescribed in NATA/JEE Paper-2: Admission Rules: relevant Government orders is applicable in determining the merit for admission to Architecture course.

POSTGRADUATE Programs

MASTER OF BUSINESS ADMINISTRATION (MBA)

We offer a 2-year MBA program, open to candidates who have a 3-year bachelor's degree from a recognized university with not less than 50% of the marks in aggregate of all the years of the degree examination and 45% in case of candidates from Karnataka belonging to SC/ST and Category-1. Candidates require a valid score in KMAT / CMAT / MAT / PG CET for eligibility.

MASTER OF COMPUTER APPLICATIONS (MCA)

This is a 2-year program, open to candidates who have secured at least 50% marks (45% marks in case of candidates belonging to reserved category) in BCA / Bachelor Degree in Computer Science and Engineering or Equivalent or B.Sc. / B.Com. / B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional bridge Courses as per the norms of the concerned University). Candidates require a valid score in KMAT / PG CET for eligibility.

MASTER OF TECHNOLOGY (M.TECH) PROGRAMS

MSRIT offers the following 2-year M.Tech programs for which candidates with a B.E/B.Tech. degree in the relevant discipline with at least 50% marks in aggregate are eligible. The minimum aggregate marks required is 45% in case of candidates from Karnataka belonging to SC/ST Category-I. Candidates require a valid score in GATE / PG CET for eligibility.

STRUCTURAL ENGINEERING

MANUFACTURING SCIENCE & ENGINEERING

COMPUTER INTEGRATED MANUFACTURING

COMPUTER APPLICATIONS IN INDUSTRIAL DRIVES

DIGITAL ELECTRONICS & COMMUNICATION

VLSI DESIGN & EMBEDDED SYSTEMS

COMPUTER SCIENCE & ENGINEERING

COMPUTER NETWORK ENGINEERING

INDUSTRIAL ENGINEERING

SOFTWARE ENGINEERING

DIGITAL COMMUNICATION

BIOTECHNOLOGY

MASTER OF ARCHITECTURE (LANDSCAPE ARCHITECTURE)

RESEARCH PROGRAMS

Research programs leading to Ph.D/M.S are available in the following departments.

CIVIL ENGINEERING

MECHANICAL ENGINEERING

ELECTRICAL & ELECTRONICS ENGINEERING

ELECTRONICS & COMMUNICATION ENGINEERING

CHEMICAL ENGINEERING

COMPUTER SCIENCE & ENGINEERING

INDUSTRIAL ENGINEERING & MANAGEMENT

BIOTECHNOLOGY

INFORMATION SCIENCE & ENGINEERING

ELECTRONICS & TELECOMMUNICATION ENGINEERING

ELECTRONICS & INSTRUMENTATION ENGINEERING

MEDICAL ELECTRONICS ENGINEERING

ARCHITECTURE

CHEMISTRY

PHYSICS

MATHEMATICS

MASTERS OF BUSINESS ADMINISTRATION (MBA)

MASTER OF COMPUTER APPLICATIONS (MCA)

SCHOLARSHIPS

Deserving students can avail several scholarships awarded by the Government of Karnataka. Here is a list of the scholarships and the corresponding applications that can be obtained from the Admission and Scholarship section during the month of September every year.

POST METRIC SCHOLARSHIP TO SC/STS

FEE-REIMBURSEMENTS TO SC/STS

FEE- CONCESSION TO CATEGORY-I, II, AND III

EXTRA BOARDING AND LODGING ALLOWANCE TO CATEGORY-I, II, & III

DEFENCE SCHOLARSHIP

MSRIT ALUMNI SCHOLARSHIP

LIST OF PRIVATE AND PUBLIC SECTORS AWARDING MERIT SCHOLARSHIPS

MSR CHARITIES

KARNATAKA MINORITIES DEVELOPMENT CORPORATION
(LOAN SCHOLARSHIP)

DEPARTMENT OF MINORITIES

SITARAM JINDAL TRUST

INDIAN OIL CORPORATION

Various other scholarships are available and students are advised to find more about them through the various other means.

RAMAIAH DOCTORAL FELLOWSHIP

M S Ramaiah Institute of Technology offers a Ph.D. Doctoral Programme in Faculty of Engineering, Faculty of Applied Sciences, Faculty of Technology and Faculty of Management Studies. The research scholars admitted for full time Ph.D. Doctoral Programme at MSRIT are provided with a Ramaiah Doctoral Fellowship amount of Rs. 25,000/- per month for a period of 3 years from the date of registration.

M.S. Ramaiah Institute of Technology is located in the heart of Bangalore City on a sprawling campus spread across 25 acres. The institution has world class infrastructure - well equipped laboratories; high tech auditoriums; library with subscription to leading journals and magazines; digital library with subscription to several online e-journals; air-conditioned, high tech conference halls; dedicated sports complex; canteens serving hygienic food; and excellent hostel facilities for boys and girls.



RAMAIAH INSTITUTE OF TECHNOLOGY
MSR Nagar, MSRIT Post, Bengaluru - 560 054.

**MULTIPURPOSE
BLOCK**



**Heritage
BLOCK**



**ENGINEERING
SCIENCES BLOCK**



**DIVISION OF ELECTRICAL
SCIENCES BLOCK**



**ARCHITECTURE
BLOCK**





LIBRARY

The library has a physical book section (with over 1,50,000 books) and a digital section with subscription to several leading e-books, e-journals and magazines.

HOSTEL

MSRIT provides separate hostel facilities for boys and girls with hygienic food, hot water facilities, common vegetarian mess, TV lounge and a health centre and has a capacity of 1500 students.



SNAPSHOT

Located in Bangalore, India's IT nerve centre and among the fastest growing cities

Centrally located with easy access from different parts of the city

VTU and UGC have conferred the prestigious Autonomous Status till 2029

National Board of Accreditation has accredited 12 UG programs

Wi-Fi Campus with wide Internet connectivity and dedicated browsing Centre

Active research activity with live projects from reputed organisations

Proctorial system for guidance and counseling to students and feedback to parents

Full-fledged Placement Centre that is active and successful

Entrepreneurship Development Cell (EDC) Ramaiah "Evolute" a cross disciplinary Start-up ecosystem

Boeing Research and Technology Centre at MSRIT

Centre for Imaging Technologies

Centre for Advanced Materials Technology

Schneider Centre of Excellence

Centre for Antennas and Radio Frequency Systems - (CARFS)

Centre for Cyber Physical Systems

Centre for Bio & Energy Materials Innovation (CBEM)

MECHANICAL ENGINEERING



Dr. Raji George
Professor & Head

The Department of Mechanical Engineering was started in the year 1962 with an intake of 60 students. The department has grown strong over the last 40 years and today has an intake of 120 students for the UG program and 18 students each for the two PG programs. All 38 faculty members are well qualified with minimum Post graduate degree and 26 of them possess doctoral degree.

Being one of the oldest departments of the institution, we offer a four-year bachelor's degree program and two Master's degree programs in Manufacturing Science & Engineering and Computer Integrated Manufacturing. The Department is a VTU recognized R&D Centre for MSc Engineering and Ph.D program. The faculty members have taken up a number of research projects funded by external agencies such as DRDO, DST, AICTE and Visvesvaraya Technological University. Faculty members from the department have published number of technical papers in International/National Journals & Conferences. They have also filed 12 and obtained 2 Patents. Two research-oriented books have been published one by Taylor & Francis and another by Institute of Physics. Many of them have authored Text books in different domains of Mechanical Engineering which are recommended by VTU Board of studies as reference books. The department offers courses such as Robotics, Artificial Intelligence, Additive manufacturing, Nano Technology, which meets the needs of the present-day industry scenario. A Centre for Advanced Materials Technology has been established for multi-disciplinary research and innovations in materials, Nano materials and processes. It is equipped with latest sophisticated high-end equipment's such as XRD, FTIR, UV-Vis, DSC, TGA and NDT tester etc. The students are motivated in addition to their regular curriculum to involve in high quality research with faculty. Number of research clubs are actively engaged in different domains of mechanical engineering and cutting-edge technology. 4 International Conferences (ICRAES) have been organized for the department at a frequency of 2 years and also 15 Faculty Development Programme in the last 3 years.

Society of Mechanical Engineers (SME) – A Society promoted by the department and enlisted active faculty & student members, promotes co-curricular activities among students such as guest lectures, industrial visits, technical paper presentations and technical quizzes for the students. Activities related to material characterization, composite materials, Nano materials, Robotics and AI, Energy Engineering, Aeronautics and Automobile Engineering are carried out. Students from the department participate both at National and International level competitions. Dr. Raji George Professor & Head
MECHANICAL ENGINEERING ACTIVITIES PAPER PRESENTED
National and International journals and conferences – 600 papers published in the last five years.

ACTIVITIES

PAPER PRESENTED

National and International journals and conferences – 600 papers published in the last five years

FACULTY

PROFESSOR & HOD

Dr. Raji George - M.E, Ph.D

PROFESSORS

Dr. Putta Bore Gowda - M.Tech, Ph.D

Dr. K.R. Phaneesh - M.E, Ph.D

Dr. K.R.V. Subramanian - M.E, Ph.D

ASSOCIATE PROFESSORS

Dr. C M Ramesha - M.Tech, Ph.D

Dr. P B Nagaraj - M.E, Ph.D

Dr. B P Hari Chandra - M.E, Ph.D

Dr. Niranjana Murthy - M.Tech, Ph.D

Dr. Mohandas K N - M.E, Ph.D

Dr. Sunith Babu L - M.Tech, Ph.D

Dr. T Anil Kumar - M.Tech, Ph.D

ASSISTANT PROFESSORS

Dr. Nagesh S N - M.Tech, Ph.D

Dr. Vishwanath Koti - M.Tech, Ph.D

Dr. Jyothilakshmi R - M.Tech, Ph.D

Dr. Siddaraju C - M.Tech, Ph.D

Dr. R. Kumar - M.Tech, Ph.D

Mr. Naveenkumar B K - M.Tech

Dr. Jaya Christy K G - M.Tech, Ph.D

Dr. Aruna Kumar P C - M.Tech, Ph.D,

Dr. Rajeesh S - M.Tech, Ph.D

Mrs. Bijayalakshmi Das - M.Tech, (Ph.D)

Dr. D. K. Vishwas - M.Tech, Ph.D,

Dr. Mahantesh S Matur - M.Tech, Ph.D

Dr. Girish V. Kulkarni - M.Tech, Ph.D

Dr. K. Lokesh - M.Tech, Ph.D

Mr. Bharath M R - M.Tech, MBA, (Ph.D)

Mr. Rajendra P - M.Tech, (Ph.D)

Mr. Pradeep Kumar K V - M.Tech, (Ph.D)

Mr. Ashok Kumar K - M.Tech, (Ph.D)

Dr. Balasubramanya H S - M.Tech Ph.D

Mr. Vinayak Talugeri - M.Tech, (Ph.D)

Mr. Nishanth R Acharya - M.Tech, (Ph.D)

Mr. Gururaj Lalgi - M.Tech, (Ph.D)

Dr. Prakrathi S - M.Tech, Ph.D

Mr. Pavankumar M V - M.Tech

Dr. Sriharsha Sripathi - M.Tech, Ph.D

Mr. Nandeesh H L - M.Tech, (Ph.D)

Mr. Deepak S - M.Tech, (Ph.D)

FUNDED PROJECTS

The department continuously encourages both faculty and students to engage in Research and Consultancy. Faculty have obtained external funded research projects and some of them are listed below:

- Performance evolution of biodegradable orthopaedic implants under flow, load and biomolecules chelation, Science & Engineering Research Board (SERB), New Delhi- sanctioned amount of Rs.29.806 lakhs.
- Study of Fatigue Crack Growth of Al 6061 - T6 Welds Obtained by Gas Metal Arc Welding Technique, Armament research board, DRDO-sanctioned amount of Rs.27.06 lakhs.
- Experimental investigation of low Velocity impact and Damage Studies of Hybrid Composite Inter / Intra layered with Glass Carbon Kevlar fibers for aerospace application. - AICTE – RPS, sanctioned amount of Rs.21.64 lakhs.
- Analysis of Cooling strategies for controlling dimensional accuracy during milling of Titanium alloy – SERB, New Delhi, under Teachers Associateship for Research Excellence (TARE), sanctioned amount 18.3 Lakhs.
- Damage Studies on Sandwich Composites, Boeing India (P) Ltd, - Sanctioned amount of \$ 11,000. • Characterization of LM13 reinforced with TiB2 Subjected to wet/dry abrasive wear for Industrial/Automotive applications – Funded by AICTE under RPS - sanctioned amount of Rs. 11.58 Lakhs.
- Synthesis and Characterization of Copper reinforced Carbon nanotube composite – Funded by VTU - sanctioned amount of Rs. 7.5 Lakhs.
- Synthesis and Characterization and Modelling of functionally graded ceramic composites – Funded by AICTE - sanctioned amount of Rs. 8 Lakhs.

AWARDS AND CITATIONS

- Department has obtained Two Indian Patent to its credit and 7 more are in the pipeline.
- Two faculties of the department have been listed in the AD Scientific Ranking list for 2021 & 2022 based on the Google Scholar Profiles of scientists.
- Many faculties of the department have won Best Research Paper Presentation Awards in leading National and International Conferences.
- The Research Centre of the Department has so far facilitated 35 candidates, both faculty and industrial professionals, towards obtaining their doctoral degree.

STUDENTS ACHIEVEMENTS

- EDHITHA and QUATLAS, two teams which build Unmanned Aerial Vehicles from the Department, participated in the Annual SAE global level Competitions held in USA. EDHITHA won the prestigious award in the competition during 2015 outscoring 55 international teams in recent years they have secured good positions in the competition also. Team QUATLAS was placed 15th position internationally at the SAE Aero Competition in 2018 and placed 4th internationally in Technical presentation in the Virtual Competition held during 2020.
- Team Stier Racing were placed overall Runner-Up in an All-India competition held at Noida in 2019.
- Team Volante were placed 1st in Endurance testing in Bharat Formula Karting at Coimbatore, India in 2019.
- QUATLAS Unmanned Air Vehicle participated in the competition SAE Aero Design West 2019 in USA and was ranked no.1 in Asia while being placed number 5 in the world.
- Team VELOCITA from the Department participated in the Formula Bharath competition in the IC Engine category and placed 21st position in Pre-registration quiz among 118 teams.
- Team Stier Racing won formula Green 2020 competition held at KARI MOTOR Speedway in Coimbatore in 2020 (Under Electric Vehicle category) and won best battery design, in the 4th Annual FSEV Concept Challenge (FSEV 2020).
- Team CONCEPT 4 has been selected for NASA's Human Exploration Rover Challenge which is going to be held in November 2021 in USA.

INDUSTRY COLLABORATIONS

The Department has close associations with organizations such as HAL, BHEL, MICO, HMT and National Laboratories like NAL, CPRI, Boeing, ACE Manufacturing Systems (AMS) and FANUC. The department has entered into MoU's with FANUC India, M/s GOODWILL Industries, M/s SNAM Alloys Pvt Ltd, University of Agriculture sciences, M/s TOYOTO KIRLOSKAR MOTOR Pvt Ltd, M/s ACE Manufacturing systems Ltd, M/s BOEING India Pvt Ltd, M/s UAS Associates and M/s SUZLON Industries. The MoU with FANUC facilitates certification courses in FANUC CNC & FANUC Robot to the students, which is widely recognized by CNC machine manufacturers and developers across the country. Centre for Advanced Materials Technology (CAMT) is established by the Department in collaboration with Boeing India Pvt. Ltd.



Vertical Milling Machine-Spark-XL (4 Axis)



FFT Analyzer [4 Channel]



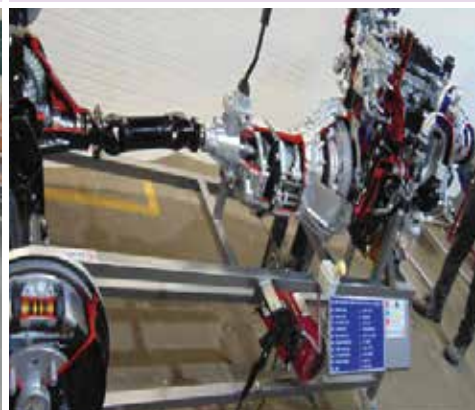
6- Axis M10iD12 Fanuc Robot



Machine Shop



UAV Student Team



Toyota Innova cut Section of Engine & Gear Box – Toyota Engine Lab

ELECTRICAL & ELECTRONICS ENGINEERING



Dr. Pradipkumar Dixit
Professor & Head

The Department of Electrical and Electronics Engineering was started in the year 1962 along with the institute. Subsequently, in the year 2004, an M.Tech program in Computer Applications in Industrial Drives was started. Further, the department has been recognized as a Research Centre in the year 2003 and has produced 11 doctorates and 2 MSc (Engg. by Research) in last 19 years. The department is actively involved in R&D activities in the areas of High Voltage Engineering, Lightning Protection, Power Electronics & Drives, Power Systems and Renewable Energy Sources. The Department is accredited by NBA since 2001.

ACTIVITIES

PAPER PUBLISHED (LAST 3 YEARS)

National and International Journal/Conference Publications: 123

FUNDED PROJECTS

- Design & Development of IVG and HCG Systems at CABS funded by Centre for Air Borne Systems, Bengaluru. Sanctioned amount: Rs.44.49 Lakhs.
- Development of Prosumer driven Integrated Smart Grid funded by DST, New Delhi. Consortia Project with IIMA, IITG & FIU (US), Sanctioned amount: Rs.33.32 Lakhs.
- Smart Watering System with the Internet of Things funded by TIH IoT CHANAKYA Intern, Bombay. Sanctioned amount: Rs 4.8 Lakhs

AWARDS/CITATIONS RECEIVED BY THE DEPARTMENT (3 YEARS)

- Dr. Pradipkumar Dixit Awarded Fellow of Institute of Engineers (I) Awarded Chartered Engineer (I)
- Five faculty members of the department are elevated to Senior members from IEEE USA.

STUDENTS' ACHIEVEMENTS

- Keerthana.S VII sem, part of RIT Judo team in 70 kg category, Won 3rd Place in Inter zone competition held at SJCIT, Bangalore, under Department of physical education and sports, VTU, Belagavi September, 2019.
- Prateek Kumar, Krishna Kant and Sourabh Kumar Secured first place in golden probe (online E-hackathon) which was by IEEE PES UVCE during July 2020.
- Shwetha Rajagopalan of IV sem. has successfully completed the circuit simulation of Narrow Band Reject Filter (notch Filter) under eSim Circuit Simulation Project, conducted IITB, Mumbai during July 2020.
- Darshan.R of IV sem Winner, National Level in SWACHTAPAKHWADA 2021" Organised by CMTI, Bengaluru for proposing concept "Waste Disposal in Railway Compartment".
- Akshat G, Aviral A, Nishnat S, Sripad K, Chalukya B, Abhijit S, Aditya R and Hruday R have won 1st Position HACKATHAON-22 organized by HMT in association with IISc, Bangalore April, 2022.

FACULTY

PROFESSOR & HOD

Dr. Pradipkumar Dixit – M. Tech., Ph.D, CEngg(I)

PROFESSOR

Dr. B.V. Sumangala – ME, Ph.D

PROFESSOR (EMERITUS)

Dr. G.R. Nagabhushana – Ph.D

ASSOCIATE PROFESSORS

Dr. Chandrashekhar Badachi – M.Tech, Ph.D

Dr. Kodeeswara Kumaran G – M.Tech., Ph.D

Dr. Sridhar S – M.Tech., Ph.D

Dr. S. Dawnee – M.Tech, Ph.D

ASSISTANT PROFESSORS

Sri. Victor George – M.Tech, (Ph.D)

Sri. Vinayaka V Rao – M.Tech, (Ph.D)

Sri. K. Ramakrishna Murthy – M.Tech, (Ph.D)

Smt. Kusumika Krori Dutta – M.Sc (Engg.) (Ph.D)

Smt. Mamatha G M – M.Tech

Dr. Nagaraj C – M.Tech, Ph.D

Dr. S. Poornima – M E, Ph.D

Dr. Binshati Chatterjee – M.Tech, Ph.D

Dr. Hemachandra Godimandala – M.Tech, Ph.D

Dr. Neelamsetti Kiran Kumar – M.Tech, Ph.D

Dr. R. Subha – M.Tech, Ph.D



Keerthana.S VII sem, Judo 3rd Place

INDUSTRIAL COLLABORATIONS

- The department has forged strong associations with leading organizations such as IISc, CPRI, PRDC, ABB, ADA and DRDO on R&D and consultancy activities.
- The department has an MOU with Schneider Electric Company and a Centre of Excellence has been established in 2010 for Automation and Process Control, consisting of advanced equipment and facilities.
- The department has signed an MOU with National Instruments in 2015 and established NI Labview Academy.
- The department has signed an MOU with Axxonet and Ramaiah Medical College in 2018
- The department has signed MOUs with YASKAWA India Pvt. Ltd., Bengaluru and LeeP eDrive Pvt. Ltd., Hosur during 2019.



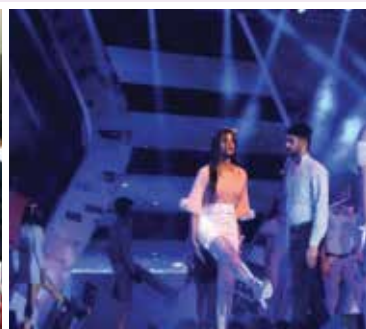
Team EDITHA- Adithya.S , Tomin Joseph, Murali .M (VIII sem) at the student UAS Design Competition 2018 held at Maryland, USA



Darshan G.K is selected for Saregamapa by Zee Kannada, season 17



Lochan .A (IV sem), Winner in South Zone Inter university Cricket Tournament, Belagavi, 2019



S.Vatsalya (VIII sem).Winner of Fashion Show, National Level Techno cultural Fest at Nitte,2019



Hari.R and Parv.M VII Sem , Part of the RIT Quiz team which won 1st place in 20th VTU Youth Festival , "INSIGNIA", held at SDMCE , Dhrawad, October, 2019



- Supreeth.R of VII sem, winner National Level "SMART INDIA HACKATHON-2022", Organized by Ministry of education, Govt of India.
- Darshan R of VII sem, runner up at V-Guard Big-idea and Tech challenge 2022 and won Rs.50,000 cash prize for Electrical vehicle battery pack fire suppression system



TEAM STIER - Electric vehicle racing car: Pratik Khot (VI sem.), Neeraj Yadav (VI sem.) and Shantanu Datar (VI sem.) Secured overall champion in 5th Formula Green Event organized by Indian Society of New Era Engineers, Coimbatore in February 2020.



An Industrial Visit to LM Wind power blades Nelamangala, Bengaluru was organized for 5th Sem. Students on 9th December 2022.



An industrial visit to BHEL, Yeshwantapura was organized for 6th sem. Students on 16th Nov. 2019.

CIVIL ENGINEERING



Dr. I. Venugopal
Professor & Head

The Department of Civil Engineering was started as the third department in the institute with an intake of 60 students in the year 1971. In the year 1984, Structural Engineering was first Post Graduate program to be started in the institute with an intake of 10 students. The UG program has been accredited by NBA for four times and recently it was accredited for three years (from 2021 to 2024). The PG program (Structural Engineering) was also accredited by NBA for three years (from 2019 to 2022). After obtaining the autonomous status in the year 2007, the department focused towards providing state of the art curriculum development, offering electives of the present day need and techno-innovative projects. These initiatives resulted in enhanced performance of the students in terms of increase in placement, increase in the number of students writing competitive examinations and pursuing higher education in the foreign universities.

Further, the department of Civil Engineering was recognized as a research centre in the year 1994 leading to PhD/MSc in Civil Engineering under State Technological University-VTU. The research centre has 30 research scholars pursuing their PhD degree from this research centre and 19 research scholars have been awarded PhD degree. The areas of research include Structural Engineering, Transportation Engineering, Geo-Technical Engineering, Water resources Engineering and Environmental Engineering.

The Department has close interaction with a number of reputed industries, Government agencies through R&D, and consultancy works. It also has MOU's with industries, professional bodies and other institutes in areas related to academics, research and consultancy.

ACTIVITIES

PAPER PUBLISHED (LAST 4 YEARS)

National and International Journal/Conference Publications: 166

FUNDED PROJECTS

- "Studies on characterization of construction waste and tyre mixture for train vibration isolation" funded with Rs 18,30,000, by SERB (DST).
- "Sustainable Utilization of iron ore tailing in smart dynamic concrete for affordable housing systems", funded with Rs 8,52,000 by VTU
- "Utilization of Crumb Rubber, Arecanut Fiber and Coconut fiber in the Controlled Low Strength Material for Backfilling the Trenches in Expansive Soils" funded with Rs 2,20,000 by RIT
- "Experimental studies on utilisation of bauxite mine residue in production of sustainable ecofriendly bricks", funded with Rs 2,00,000 by KSPCB.
- "Study on environmentally friendly concrete- Alkali activated concrete" & "Studies on production of sustainable green, cement less concrete by utilizing slag from iron and aluminium industry" funded with Rs 1,40,000, by KSTA.

FACULTY

PROFESSOR & HOD

Dr. I. Venugopal - M.Tech, Ph.D

PROFESSORS

Dr. M. C. Nataraja - M.Tech, Ph.D

Dr. Asha M Nair- M.E, Ph.D

ASSOCIATE PROFESSORS

Dr. R. Mourougane - M.E, Ph.D

Dr. J Sumalatha - M.Tech, Ph.D

Dr. T. Geetha Kumari - M.E, Ph.D

Dr. Jyothi Roopa S. K - M.Tech, Ph.D

Dr. N. Sreelatha - M.Tech Ph.D

Dr. Vivek R Das - M.Tech Ph.D

ASSISTANT PROFESSORS

Dr. B Suguna Rao - M.Tech , Ph.D

Smt. Jyothi M R - M.Tech, (Ph.D)

Sri. R. Manjunath - M.Tech, (Ph.D)

Dr. Anil Kumar R – M.Tech, Ph. D

Sri. Niranjana G Hiremath - M.Tech , (Ph.D)

Dr. Raghavendra H U - MSc , Ph.D

Sri. Basavana Gowda G M - M.E, (Ph.D)

Sri. Santhosh D - M.E, (Ph.D)

Sri. Nambiyanna B - M.Tech, (Ph.D)

Sri. Raje Gowda - M.Tech, (Ph.D)

Sri. Harish M L - M.Tech, (Ph.D)

Sri. Charan Prasad M - M.E (Ph.D)

Smt. Shilpa D N - M.Tech

Smt. Nagashree B - M.Tech, (Ph.D)

Sri. Nandeesh M S - M.Tech, (Ph.D)

Dr. Santhosh L G - M.Tech, Ph.D

Smt. Lakshmi H S - M.Tech, (Ph.D)

Dr. Lakshmikanth S - M S, Ph.D

Dr. Addagada Lavanya – M.Tech, Ph.D

INDUSTRIAL COLLABORATIONS

- Bhagirath Construction Company
- Manya Associates
- Glass Academy
- Swifterz Creative Services (LLP)

RESEARCH COLLABORATIONS

- Indian Institute of Remote Sensing (IIRS)
- NIT Suratkal, Karnataka (For Virtual Lab)
- IISc (Research Projects)
- NIT Trichy

PROFESSIONAL BODIES (STUDENTS' CHAPTERS)

- Indian Concrete institute (ICI)
- Indian Society for Technical Education (ISTE)
- Indian Geotechnical Society (IGS)
- Royal Society of Civil Engineers (internal)

ACTIVITIES OF STUDENTS AND FACULTY

- Seminar on "Geo-environmental aspects of landfills and Sustainability" was conducted on 3rd June 2022. Speakers: Prof. Krishna R Reddy, University of Illinois, Chicago, USA, Prof G R Dodagoudar, Professor, IIT Madras, & Dr Vishwas Sawant, Professor, IIT Roorkee.
- FDP on "Advance in Highway Technology and Traffic Systems" was conducted from 7th Feb 2022 to 11th Feb 2022.
- Technical talk on "Innovative Testing Devices for Forensic Investigation in Civil Engineering" was conducted on 18th May 2022.
- The survey camp for the students of 6th semester was organized from 17th - 23rd April 2022.

SEMINAR ON 3rd JULY 2022



Memorandum of Understandings

- M/s Swifterz Creative Services, Bangalore
- CNS Group of Companies, Bangalore
- M/s ECOPARADIGM, Bangalore
- National Highway Authority of India- South region
- Glass Academy
- M/s Bhagirathi Construction, Bangalore
- M/s Maanaya Associates, Bangalore



DEMONSTRATION OF NEW EQUIPMENT



SURVEY CAMP 2022



INDUSTRIAL TRAINING



INDUSTRIAL TRAINING ON GROUND PENETRATION RADAR AND TACHOMETRY

STUDENT CHAPTER ACTIVITIES



ICI STUDENT CHAPTER - RIT
TECHNICAL TALK ON "MATERIALS OF CONSTRUCTION FOR REPAIR AND REHABILITATION"

ELECTRONICS & COMMUNICATION ENGINEERING



Dr. Maya V Karki
Professor & Head

The Department of Electronics and Communication was started in 1975 and has grown over the years in terms of stature and infrastructure. The department has well equipped simulation and electronic laboratories and is recognized as a research center under VTU. The department currently offers a B.E program with an intake of 120, and two M.Tech programs, one in Digital Electronics and Communication, and one in VLSI Design and Embedded Systems, with intake of 30 and 18 respectively. The department has a Center of Excellence in Food Technologies sponsored by VGST, Government of Karnataka. The department is equipped with numerous UG and PG labs, along with R&D facilities. Past and current research sponsoring agencies include DST, ISRO, VTU, VGST, AICTE, KSCST and FAER. The department has research ambitions to develop innovative solutions and products for various research activities focused towards national development in various advanced fields such as Signal Processing, Embedded Systems, Cognitive Sensors and RF Technology, Software Development and Mobile Technology. The department is also actively involved in IEEE activities at the student and faculty levels, and is host to an IEEE Signal Processing Society Student Chapter. The Department has recently initiated space related technology in the form of a student club – Stardust RIT.

ACTIVITIES

PAPER PRESENTED

National/International Journals and Conferences – 80 (for last 3 years)

FUNDED PROJECTS

- "Thermal Profiling and Performance Evaluation of Micro Climate Garment through Embedded Electronic Module" LSRB, DRDO, Rs.51.34 Lakhs, 2022
- "Assistive System for Parkinson Patients", VTU Research grants, Rs 10 Lakhs, 2022
- "Development of an AI based embedded system for prediction of preterm childbirth during pregnancies", AICTE, Rs.12.19 Lakhs, 2021
- "Customized Reconfigurable platform for Image/Video Compression based on Deep Learning Algorithm for Hyperspectral image", ISRO, Rs. 29.3 Lakhs, 2021
- "Violence Detection in Drone Surveillance Videos", ARTPARK(IISc), Rs. 6.05 Lakhs, 2021
- "Modernization of Wireless Communication Lab", funded with Rs. 7.69 Lakhs, by AICTE MODROBS, 2019
- "Deep Neural Networks for Cancer Detection", funded with Rs. 1.25 Lakhs by NVIDIA GPU Grant, 2017

CONSULTANCY

- 18 Ongoing consultancy projects for a total of Rs. 33.75Lakhs

INDUSTRIAL COLLABORATIONS

- MoU with Samsung Research Institute, B
- MoU with Photonics India Ventures Private Ltd., Bangalore
- MoU with Gallant Electronic Controls
- Collaboration with Karnataka Veterinary, Animal and Fisheries Science University
- MoU with Gemini Electro Corporation, AMD India Private Limited and Leotechsa Robotics Pvt. Ltd., Pune

FACULTY

PROFESSOR & HOD

Dr. Maya V Karki, Ph. D

PROFESSORS

Dr. S. Sethu Selvi, Ph. D
Dr. K. Indira, Ph. D
Dr. T. D. Senthilkumar, Ph. D

ASSOCIATE PROFESSORS

Dr. B. Sujatha, Ph. D
Dr. S. Lakshmi, Ph. D
Dr. V. Anandi, Ph. D
Dr. Raghuram S, Ph. D
Dr. Deepali B Koppad, Ph. D
Dr. C.G. Raghavendra, Ph. D
Dr. Lakshmi Shrinivasan, Ph. D
Dr. Suma K.V, Ph. D

ASSISTANT PROFESSORS

Smt. H. Mallika, M. S (Ph. D)
Dr. M. Nagabhushanam, Ph. D
Sri. Sadashiva V Chakrasali, M. Tech (Ph. D)
Dr. Mamtha Mohan, Ph. D
Sri. V. Nuthan Prasad, M. Tech (Ph. D)
Dr. Reshma Verma, Ph. D
Smt. Flory Francis, M. Tech (Ph. D)
Dr. Punya Prabha V, Ph. D
Smt. Jayashree S, M.S (Ph.D)
Sri. Manjunath C Lakkannavar, M. Tech
Smt. Chitra M, M. Tech (Ph.D)
Smt. Veena G.N, M. Tech
Smt. Pavitha U.S, M. Tech (Ph. D)
Smt. Sara Mohan George, M. Tech (Ph. D)
Dr. Imaculate Rosaline S, Ph. D
Smt. Chethana Gosal S, M. Tech (Ph.D)
Smt. C. Sharmila Suttur, M. Tech (Ph. D)
Dr. Roshan Zameer Ahmed, Ph. D
Dr. Rajendra Prasad P Ph. D

STUDENT ACHIEVEMENTS

- Prakhar Awasthi, Pavithraa S, Anaghaa R, Ayush Kumar Kesari, Ishita Gupta & Keerthana J, has won 1st prize Rs. 1 Lakh in Smart India Hackathon 2022 under the theme, "Smart Automation (Defence Research and Development Organisation (DRDO), Ministry of Defence.)", was held at ACS College of Engineering, Bangalore on 26th August 2022

- Tarrun Datwani and team has won 1st prize Rs. 1 Lakh in Smart India Hackathon 2022 under the theme, "Agriculture, FoodTech and Rural Development", was held at Prin. L.N. Welingkar Institute of Management Development and Research (PGDM), Mumbai, Maharashtra August 25th 2022.
- Ashish Gurram and team has won 1st prize Rs. 1 Lakh in Smart India Hackathon 2022 under the theme, "Fitness and Sports", SCMS School of Technology and Management, Ernakulam, kerala August 25th 2022
- Three teams different comprising of 7 ECE students won HMT Ilsc SURGE Hackathon of Rs.0.9Lakhs was held at MSRIT on 22nd April 2022.
- Ayush Kesari, Dharini Raghavan, Harshavardhan G, Ishita Gupta, Pavithra Satchithanatham, Preetham Reddy won Runner ups (2nd place) Rs. 1.38 Lakhs in Sovereign Nature Initiative (SNI) hackathon was held at De Ceuvel, Amsterdam, Netherlands on 4th-6th February 2022.
- Dharini Raghavan and Lekhashree B (V Semester), awarded the Mitacs Globalink Research Internship 2022
- Shreeshma Hegde, 1 year ECE student received Raksha Mantri commendation during the Republic Day camp, for her exemplary performance and devotion to duty as an NCC cadet. She led the NCC marching contingent as the All India NCC Rajpath Parade Commander
- Nikhil Agarwal, "Waste Sank", Winner of Waste Knot & IEEE RIT Hackathon, 2021
- Dharini Raghavan, "Implementation of Residual Dense Networks for 3D deconvolution", awarded Fellowship of Indian Academy of Sciences/ Indian Institute of Science, 2021
- Manor BR (VII Semester) was awarded Mitacs Globalink Research Internship 2021
- Sumith G S, Rishabh Bhatt, Yash Bagri & Shrinivas S V secured 1st position in NMIT Hacks 2021, conducted by Dept of CSE, NITTE, Yelahanka Bangalore, on 20th and 21st March 2021.
- Manoj B R, Neeraj Hebbar, Komal G Naik, Jyothindra Gunjan were placed 2nd in National level Robotics Competition EYRC organized by IIT Bombay
- Manoj B R, Winner, KiCad PCB designing Competition 2020, organized by Institute of Engineering and Technology



HMT Ilsc SURGE Hackathon



SAE Aero Design Nest – 2018, California, USA



1st prize Rs. 1 Lakh in Smart India Hackathon 2022



2nd Place in Sovereign Nature Initiative hackathon held at De Ceuvel, Amsterdam, Netherlands



Shreeshma Hegde with Raksha Mantri (2021)



IEEE SPS Chapter Inauguration (2020)

CHEMICAL ENGINEERING



Dr. Archana
Professor & Head

Instituted in 1978, the Department was the first to offer a course in Chemical Engineering by a self-financing engineering institution in Bangalore and the fifth in RIT. Since its inception the department has moved steadily towards the fulfilment of its mission and is emerging as a significant player in the academic landscape of Chemical Engineering education in our country. The Department is certified four times in succession by the National Board for Accreditation. Over 2000 students have graduated in 33 batches. The Department offers excellent infrastructure and students have won various prestigious awards, international internships and high accolades for innovative projects. The expertise of the faculty cover a wide range of disciplines and they are engaged in cutting edge technological research. The average experience of faculty in the department is more than twenty years and they are alumni of IISc, IIT and NITs. Enriching insights by eminent dignitaries from the practicing world are arranged under the activities of IICHe Student Chapter at the Department. The Department is approved as Research Centre by VTU for M.Sc. Engg. (By Research) and Ph.D. degrees. Department has Research projects funding from DRDO, VTU and DST. The Annual Technical Symposium organized by the department for students – RASAYAN encompasses a plethora of events. The Bangalore Regional Centre of the Indian Institute of Chemical Engineers is functioning from this department for more than two decades. The country's most prestigious event in Chemical Engineering - Indian Chemical Engineering Congress - CHEMCON-2011 was organized here. The event invited the top chemical engineers of the nation to our Institute and hosted a joint session with Canadian Universities in the area of Energy and Environment.

ACTIVITIES

PAPER PRESENTED (In last 10 years)

National/International journals – 130

National/International Conferences – 90

FUNDED PROJECTS

- Development of Energy Efficient Prototype Device for Electrochemical Synthesis of Ammonia: Investigating Pathways to Enhance Ammonia Production – Funded by SERB, DST. (Rs.43.9 lakhs).
- Development of fast curing sealant composition and materials – Funded by Boeing. (Rs.16.7 lakhs).
- Design and Development of Carbon dot (C-dot) Based Nanosensors: Detection of Environmentally and Biologically Relevant Metal Ions – Funded by VTU (Rs. 7.0 lakhs)
- Novel Enzymatic Route for Valorisation of Biodiesel Derived Glycerol to Fuel Additives – Funded by VGST (Rs. 5 Lakh).
- Nano Engineered Submerged Ceramic Membrane Bioreactor for Waste Water Purification - Funded by DST. (Rs.24.4 lakhs).
- Studies on Epoxy Based Nano Polymer Composites with Enhanced Mechanical, Electrical, Chemical and Optical Properties - Funded by DST. (Rs.24.4 lakhs).
- Enzymatic Conversion of Bio Diesel Derived Glycerol to Acetins - Funded by Institution of Engineers. (Rs. 1.5 Lakh)
- Utilization of Vermiculite and Anatase for Treating Effluents Containing Complex Pollutants- Funded by AICTE –Completed year 2006.(Rs. 9 Lakhs).

FACULTY

PROFESSOR & HOD

Dr. Archana, M.E, Ph.D.

PROFESSOR (EMERITUS)

Dr. Rammohan. T.R, Retd. Chief Scientist CSIR - 4PI

PROFESSOR

Dr. G.M. Madhu, ME., Ph.D

ASSOCIATE PROFESSORS

Dr. Brijesh, M.Tech., Ph.D

Dr. Rajeswari M Kulkarni, M.Tech., Ph.D

ASSISTANT PROFESSORS

Dr. Ramasivakaran Reddy, M.Tech., Ph.D

Dr. Sravanthi Veluturla, M.Tech., Ph.D

Dr. Koteswara Rao Jammula, M.Tech., Ph.D

Sri. Sagar J S, M.Tech (Ph.D)

Dr. Ravi Sankannavar, M.Tech, Ph.D

Dr. Ranjeet Kumar Mishra, M.Tech, Ph.D

Dr. D Jaya Prasanna Kumar, M.Tech, Ph.D

STUDENTS ACHIEVEMENTS

- 39 funded projects awarded to students of UG program by Karnataka State Council of Science and Technology, Indian Institute of Chemical Engineers, BRC and MSRTAA from 2012-2021.
- Many Students are Awarded with National & International Internship from reputed Industries and Institutes.
- ▶ Shriya Rambhia, selected to 2022 MITAC'S Research Fellowship at Canada for a Research Project at University of British Columbia, Vancouver, Canada.
- ▶ Saddam Shariff worked from June to August 2019 as a Summer Research Fellowship Program at Indian Institute of Science, jointly sponsored by IASc & INSA and NASI.
- ▶ Adam R Samuel was awarded internship at Oklahoma State University during 24th June 2019 to 09th August 2019.
- ▶ Dheer A Rambhia worked as a Visiting Research Student (VRS) at the University of Saskatchewan, Canada under the guidance of Dr. Ajay Dalai.
- ▶ H S Meghana Jois and Apurv Dwivedi is got Summer Research Fellowship Programme 2018 in Indian Academy of Science.
- ▶ Rupa Ragavan winner of the Avery Dennison Foundation (INVENT) Scholarship programme 2018-19 (\$1,300).
- ▶ Jayanth Reddy, selected to 2016 MITAC'S Research Fellowship at Canada for a Research Project at Lakehead University, Thunder Bay, Ontario Canada.
- ▶ Y Surya Mitra, internship in Arizona State University from 15th May 2015 to August 3rd 2015.
- ▶ Ananya Mohanty completed Go Green in the City 2015-the global business case challenge at Paris.
- ▶ Vandana Reddy winner of the Avery Dennison Foundation (INVENT) Scholarship program 2015-16 (\$1,300).
- ▶ Neelam R Khot, Summer Internship program in Kashiwa, University of Tokyo.
- ▶ Gorthi Apurupa, Summer Internship program in Kashiwa, University of Tokyo.
- ▶ Sarayu R, UG Research in McGill University, Canada
- ▶ Jeevitha, Internship VME Process, Inc., Kuala Lumpur, Malaysia.
- ▶ Gaurav Das, vocational internship at the Laser Zentrum Hannover e.V. within the framework of the DAAD -IAESTE' program.



Seminar on "Climate Change and Role of Engineers" by Dr. Bipin V Vora, Adjunct Professor, Biological and Chemical Engineering, Illinois Institute of Technology, Chicago



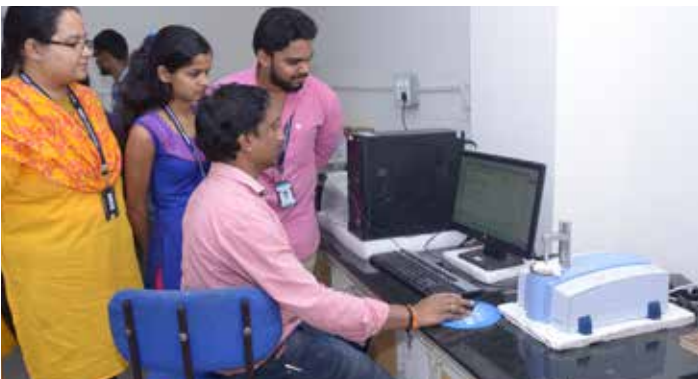
VTU Fest - 2022



Life cycle symposium - 2022



R & D Laboratory



R & D Laboratory



R & D Laboratory



CRE Laboratory



Momentum Transfer Lab



Momentum Transfer Lab

INDUSTRIAL ENGINEERING & MANAGEMENT



Dr. G.S. Prakash
Professor & Head

The department was established in the year 1979 as Industrial & Production Engineering and renamed as Industrial Engineering & Management in the year 1992, with an intake of 60 students. It has consistently bagged university ranks in Bangalore University & VTU. It has set a unique record of achieving 1st rank eleven times. M.Tech program in Industrial Engineering commenced in the year 2012. The department has well modernized laboratories like Industrial & Quality Engineering lab, Computer Lab and Mechanical Measurement & Metrology lab to name a few. The department is having highly qualified, motivated and result oriented faculty members. All faculties are actively involved in research and technical paper publications in reputed journals & conferences. The department was accredited by the NBA in 2001, 2004, 2010 & reaccredited in year 2015 and 2018. The department has successfully conducted faculty development programs, seminars & workshops for academicians as well as industry personnel, students and technical staff. Several funded research projects are executed which are sponsored by UGC, AICTE, DST, VTU and VGST.

ACTIVITIES

PAPER PRESENTED:

International Journals – 162
National Journals – 22
International Conferences – 114
National Conferences – 71

WORKSHOPS ORGANIZED:

International Conference – 05
National Conference – 02
Faculty Development Programme – 17
National Workshop – 09
National Seminar – 02
Management Development Programme – 01
Staff Development Programme – 04

RESEARCH AND CONSULTANCY

The Department has well equipped R&D lab. Research scholars numbering 14 are carrying out their research work for Ph.D degree.

FACULTY

PRINCIPAL & PROFESSOR

Dr. N.V.R. Naidu, M.Tech, Ph.D

PROFESSOR & COE

Dr. G.S. Prakash – M.Tech, Ph.D

ASSOCIATE PROFESSORS

Dr. M. Shilpa – M.E, Ph.D
Dr. R. Shobha – M.Tech, Ph.D
Dr. M. Rajesh – M.Sc (Engg)., Ph.D

ASSISTANT PROFESSORS

Dr. Sridhar B S – M.Tech, Ph.D
Dr. M.R. Shivakumar – M.E, Ph.D
Dr. Hemavathy S – M.Tech, Ph.D
Sri. Sudheer Kulkarni – M.Tech., (Ph.D)
Smt. Hamritha. S – M.Tech
Dr. Niranjana C A – M.Tech, Ph.D
Dr. Sidhartha Kar – M.Tech, Ph.D

ASSOCIATION & MOU'S

Industry Institute Interaction – Memorandum is signed with Cimtrix Systems Pvt., Ltd., Stayra Mobility Pvt Ltd., Bengaluru. Also has collaborated with Columbia / Stanford University – USA and National University of Singapore, Business Excellence Inc., USA., 2M Engineers, Coco Eco Innovations Inc. & Kenna Metals, Bengaluru.

INDEMAN SOCIETY

The society of Industrial Engineering and Management, "INDEMAN"- a student body was established in the year 1996. It was formed with the intention of bringing the hidden talents of the students to expose them to latest technology developments. The society organizes regular industrial visits, guest lectures, technical events like quiz, paper presentation competition etc.



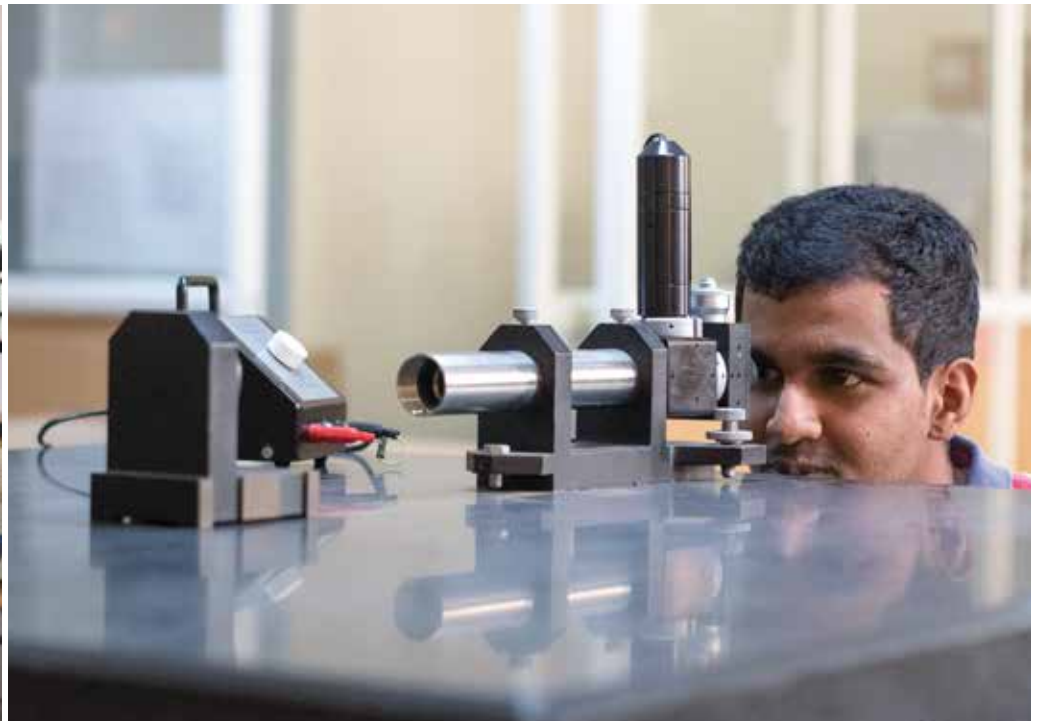
Computer Lab



Calibration Lab



Workstudy Lab



Measurements and Metrology Lab



Calibration Lab

ATAL SPONSORED ONLINE
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Organized by
Dept. of Industrial Engineering & Management
in association with IQAC
M S Ramaiah Institute of Technology
Bengaluru







COMPUTER SCIENCE AND ENGINEERING



Dr. Annapurna P Patil

Fellow IETE, Senior Member IEEE,
Member ACM, LMCSI, LMISTE
Professor & Head

The Department of Computer Science and Engineering (CSE) was established in the year 1984 to meet the needs of the emerging IT industry and research. The department has well-qualified, experienced, and dedicated teaching and non-teaching staff. In the year 1998, the department started M.Tech in Computer Science and Engineering and in 2014 the department started M.Tech in Computer Network and Engineering. The curriculum for both UG and PG at the department of CSE provides both breadth and depth across the range of engineering and Computer Science topics with industry standards. The department conducts vocational courses and proficiency courses during the summer term on the various subjects pertaining to Computer Science, both for our students and students of other colleges in the state. These courses are conducted by the faculty of the department. The department has state-of-the-art laboratories like SAP, and IBM Centre of Excellence. **The department was accredited by the Nation Board of Accreditation (NBA) for 6 years from July 2022 to 2028.** The department of CSE has a greater than 95% placement track record every year. The students of the CSE department have bagged an average package of 9 lakhs per annum in the academic year 2021 - 2022 with highest package of 48 lakhs.

ACTIVITIES

PAPER PRESENTED

Publications in Journals and Conference Proceedings by faculty and students in 2022 -> 110 articles.

FUNDED PROJECTS AND CONSULTANCY

- VTU Competitive Research Grant ~ 2 Lakhs
- VGST ~ 3 Lakhs
- CySeck ~ 12 Lakhs
- VGST CISEE ~ 30 lakhs

AWARDS

- CMI Level 5 Award in Leadership and Management.
- Outstanding Medium Student Branch Counselor, IEEE Bangalore Section.
- "Protsahan award", for contributions through publications, IEEE
- Faculty Mentor Award by Samsung and IEEE
- NPTEL award for Best SPOC

STUDENT ACHIEVEMENTS

- Winners of CODEFURY4.0 IEEE UVCE Computer Society (Rs. 1,00,000/-)
- Winner of VNRVJTIET Hyderabad VJ Hackathon
- Smart India Hackathon – Winners (2 Teams won 1 st prize of 1 Lakh)

FACULTY

PROFESSOR & HOD

Dr. Annapurna P Patil – Ph.D

PROFESSOR (EMERITUS)

Prof. Naghabhushan A M – M.Tech

PROFESSORS

Dr. Monica R Mundada – Ph.D
Dr. Jayalakshmi D S – Ph.D

ASSOCIATE PROFESSORS

Dr. Shilpa S Chaudhari – Ph.D
Dr. T N R Kumar – Ph.D
Dr. S Rajarajeswari – Ph.D
Dr. Sangeetha J – Ph.D
Dr. A Parkavi – Ph.D
Dr. J Geetha – Ph.D
Dr. Dayanand R B, – Ph.D
Dr. Sangeetha V - Ph.D

ASSISTANT PROFESSORS

Smt. Veena G S - M.Tech, (Ph.D.)
Sri. Mallegowda M - M.Tech, (Ph.D.)
Smt. Chandrika Prasad - M.Tech, (Ph.D.)
Sri. Pradeep Kumar D - M.Tech, (Ph.D.)
Dr. Ganeshayya I Shidaganti - M.Tech, Ph.D
Smt. Darshana A Naik - M.Tech, (Ph.D.)
Ms. Jamuna S Murthy - M.Tech (Ph.D.)
Smt. Sushma B - M.Tech (Ph.D.)
Smt. Nandini S B - M.Tech (Ph.D.)
Smt. Chetan D S - M.Tech (Ph.D.)
Smt. Soumya C S - M.Tech (Ph.D.)
Smt. Manjula L - M.Tech (Ph.D.)
Smt. Akshata S Bhayyar - M.Tech (Ph.D.)
Sir. Vishwachetan D - M.Tech (Ph.D.)
Smt. Akshatha Kamath - M.Tech

SENIOR LECTURER

Smt. Mamatha A - M.Tech
Smt. Pallavi N - M.Tech

INDUSTRY COLLABORATIONS

- IBM and SAP
- Cisco, MicroFocus, Uipath
- Project Implementation-Samsung, UNISYS, SARCII
- MOU- Hewlett Packard Enterprises, Simplify3X, Garuda Aerospace Pvt Ltd



Talk on Recommender Systems for Cyber Infrastructure Management and Domain Knowledge Discovery by Dr. Prasad Calyam, University of Missouri, Columbia, June 2022



Interaction with Delegates From Japan, Suzuki India Digital, May 2022



Hewlett Packard Enterprises, MoU, June 2022



Sociallygood.com – Alumni/ Star Evolute Awardee August, 2021



IEEE Stem Activities 2022



The Dawn Jaeger Tenacity Award 2022



SIH Winners- 2 teams won 1st prize of 1 Lakh each in August, 2022

ELECTRONICS & INSTRUMENTATION ENGINEERING



Dr. M K Pushpa
Associate Professor & Head

The Department was established in the year 1992 as Instrumentation Technology and was renamed as Electronics and Instrumentation Engineering (EIE) in the year 2014 by VTU. The department offers UG course which is recognized by AICTE and accredited by NBA, four times (up to 2022). The department is recognized as a Research Centre by VTU, Belagavi and offers Ph.D and MSc.(Engg.) by research programs. All the faculty members are doctorates and are actively engaged in R&D activities. The department is focused on empowering the students with technical knowledge and practical skills in the areas of Instrumentation Technology and Industrial Automation System in line with Industry 4.0. The department is equipped with modern laboratories including Allen Bradley PLCs, SCADA from Schneider Electric, Ocean Optics Optical Spectrometer and research software such as Neuroshell predictor and classifier to name a few.

The course and curriculum is basically multi-disciplinary in nature and revolves around electronics, computers and embedded systems. The focus is on the design and control of automated systems with Industry 4.0 standards. The emphasis is on hands on training with PLCs, SCADA, Robotics, Automation and IoT. With wide exposure the students are well equipped to get into core industries and/or higher studies in India and abroad. Our Board of Studies involves experts from IISc, HAL, ISRO, DRDO and our alumni giving inputs to the curriculum design and modifications. The department has an MoU with Mitsubishi Electric India Private Limited and SM Electronics and has several consultancy projects and linkages with industries. The department also has an active membership in International Society of Automation (ISA) and the Society of Instrumentation Professionals (ISOI-IISc). Students are active in both extra-curricular and co-curricular activities. They have published papers in conference/journals, applied/awarded patents, participated and won prizes in many national events as Mitsubishi cup, Avery Dennison foundation innovation event. The students build innovative final year projects and have won prizes every year. Selected student projects have received KSCST and Alumni funding. Students are also in Skating, cricket, swimming, basketball etc at both state and national level.

ACTIVITIES

PAPER PRESENTED

National / International Journal & conference – 112, most of the works are published in quality peer reviewed journals.

PATENT GRANT/FILED: 6

AWARDS/CITATIONS RECEIVED BY THE DEPARTMENT (5 YEARS)

- Dr. M K Pushpa - Awarded Fellow of Institute of Engineers
- Dr. H S Niranjana Murthy - Awarded Fellow of IETE

FACULTY

ASSOCIATE PROFESSOR & HOD

Dr. M K Pushpa, M.Tech., Ph.D, FIE

PROFESSOR

Dr. M Jyothirmayi, M.E, Ph.D

ASSOCIATE PROFESSORS

Dr. G Shiva Prakash, M.Tech. Ph.D

Dr. H S Niranjana Murthy, Ph.D, FIETE

ASSISTANT PROFESSORS

Dr. M D Nandeesh, M.Tech. Ph.D

Dr. Elavaar Kuzhali S, M.S. Ph.D

Dr. J V Alamelu, M.S. Ph.D

Dr. A Saravanan, Ph.D

Dr. K M Vanitha, M.Tech. Ph.D

Dr. Christina Grace Charlet, Ph.D

Dr. Nishi Shahnaj Haider, PhD

Student Chapter: Department has organized several guest Lectures, industry visits, and activities under Innovation and Training Club–RIT in association with Instrument Society of India, ISOI - Student Chapter.

INDUSTRIAL COLLABORATIONS

- Department has an active MOU with S M Electronics and Renesas synergy boards of worth INR 3,75,000 has been contributed. As part of MoU, hands on FDP on Renesas synergy has been organized.

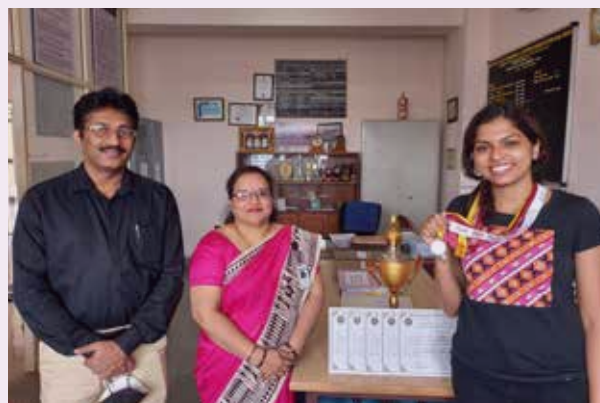
FUNDED AND CONSULTANCY PROJECTS

- Funded project titled “Estimation of Post-partum blood loss using optical fiber sensor and its correlation to shock index” sanctioned for funding amount of Rs. 18.22 Lakhs by DBT, India. Principal Investigator is Dr. Christina Grace.
- Industry Consultancy work worth Rs.6,84,000/- has been sanctioned. The faculty members Dr.M.Jyothirmayi, Dr. G Shivaprakash, Dr. H S Niranjana Murthy, Dr.M.D.Nandeesh, and Dr. A Saravanan are involved.

STUDENTS ACHIEVEMENTS (NATIONAL & INTERNATIONAL LEVEL)

- Students of EIE Department are participating in several Co-curricular and Extra curricular events and won prizes at college, state, national and international level events.

- Prithvi Jagadeshan, Rafay umar, Poojitha, Parasumaram, Sanshrit Bakshi, Anwasha, Sahil Roy final year project titled, 'Smart bed for ulcer prevention and remote monitoring', has been sanctioned for Rs. 4,500 by KSCST, Karnataka.
- KSCST-SPP-student fund of Rs.8,000 was sanctioned for students for their project "Detection of parkinsons disease with analysis of motor skills"
- Alumni (MSRIT) fund of Rs 10,000 was sanctioned for students Sidarth M, Vijay B, Ritik, Raju for their project "Anxiety detection using electrodermal activity" guided by Dr.M.Jyothirmayi.
- Deepak Joshi received prestigious Dawn Jaeger Tenacity award 2022 for exhibiting autonomous unmanned air system at SAUS competition, USA.
- Bharath Gowda, received cash prize of Rs.12,000 for the project showcased on Practical aspects of computational intelligence for the project titled "Deep learning based recycle waste classification and comparison between different Machine Learning Algorithms" conducted by IEEE-CIS vocational course by Mind Tree.
- Ketan Anand was awarded Best outgoing student of the Institute and has completed the requirements of B.E.Honors as per VTU regulations.
- Vedya Janardhanan, was an adjudicator in 'smart debates' 2020 organized by smart club in collaboration with Youth Initiative Nepal and Debate Network Nepal.
- Madhuvanthi, student of EIE received USD 1300 as scholarship from Avery Dennison foundation for the year 2021.
- Muskan Walia of I sem, selected as a Women Techmakers Engineering Fellow, formerly known as WE TalentSprint Scholaramong the top 250 participants consisting of over 55,000+ applicants across India. Recieved 100% scholarship.
- Arundathi Deshpande, won Gold medals, Silver medals and bronze medals in Swimming state level and VTU competitions.
- Basketball state level-won by RIT team.
- Ghanashama Prabhu, Won at state level and bronze medal in 1000Mts at National Games, Gujarat, India.



INFORMATION SCIENCE AND ENGINEERING



Dr. Sanjay H A
Professor & Head

The Department of Information Science and Engineering (ISE) was established in the year 1992 with an objective of producing high quality professionals to meet the demands of the emerging field of Information Technology. Department offers Bachelor's program in Information Science and Engineering (B. E), Master's program in Software Engineering (MTech) and Doctoral program (Ph.D.). The Department of Information Science and Engineering, is a progressive department that has made significant contributions to Academics, Research and Innovation. **The Department UG program as been accredited by National Board of Accreditation (NBA) for 6 years from 2022 to 2028.** The department has highly qualified and competent faculty members committed to innovative teaching learning and quality research. Department has 8 well-equipped state of the art laboratories which meets the requirement of curriculum, innovation and research. Collaboration with industries such as Apple, Unisys, Mindtree, Intel, Google, SECO, IBM, NVIDIA etc, has a significant impact on the curriculum, computing infrastructure, teaching & learning and research. The curriculum is centred around Data Science, Artificial Intelligence, IOT, Cloud & Distributed Computing, System Programming, Computer Security and Software development. Curriculum and the teaching learning process ensure that the students demonstrate technical competence, ethical reasoning, creativity in identification & formulation of the problems and develop solutions by using appropriate tools & techniques. Department has established technical clubs/ professional student chapters to provide collaborative learning platform for the students. Echo system has been built to initiate start-ups/Innovation at the department level along with the mentorship program. The activities of the Department led to high profile placements, motivation to become an entrepreneur, and encouragement for higher learning.

RESEARCH STATISTICS

- Executed 10+ Funded Research and Consultancy Projects from ISRO, ART PARK (IISc), IBM, UGC, AICTE, VGST, VTU and other Industries amounting to Rs. 1 Crore till date.
- 200 Research publications in reputed journals/ conferences/ edited books indexed in SCI/WoS/ SCOPUS/Google Scholar from 2018
- 2500+ Citations
- 65 publications with minimum 10 citations
- 8 filed/published Indian Patents from 2018

RESEARCH PROJECTS

- Use of Artificial Intelligence / Expert Systems/Machine Learning in Mission Operations – ISRO
- Sign Language Translator for vocally challenged using Sensor based hand gesture Recognition(HGR)- IISc
- Anomaly Detection Using Machine Intelligence Techniques For Mobile Computing Networks - AICTE
- Understanding the facial phlebotomy and developing Computer-Aided Diagnostic tool for screening of common congenital malformation - ICMR

FACULTY

PROFESSOR & HOD

Dr. Sanjay H A - M.Tech, Ph.D (IISc)

PROFESSORS

Dr. Vijay Kumar B P - M.Tech(IITR), Ph.D(IISc)
Dr. Yogish H K - M.Tech., Ph.D

ASSOCIATE PROFESSORS

Dr. Megha P Arakeri - M.Tech, Ph.D, SMIEEE, Fellow IETE
Dr. Krishna Raj P M - M.Sc Engg, Ph.D
Dr. Sumana M - M.Tech Ph.D
Sri. Shashidhara H S - M.Tech (Ph.D)
Dr. Geetha V - M.Tech, Ph.D

ASSISTANT PROFESSORS

Smt. Savita K Shetty M.Tech (Ph.D)
Dr. Lincy Meera Mathews M.Tech, Ph.D
Ms. Rajeshwari S B M.Tech (Ph.D)
Smt. Prathima M N BE, M.E
Dr. Pushpalatha M N M.Tech, Ph.D
Sri. Prashanth K M M.Sc. Engg.
Sri. Jagadeesh Sai D M.Tech (Ph.D)
Dr. S R Mani Sekhar M.Tech, Ph.D
Sri. Suresh Kumar K R M.Tech (Ph.D)
Smt. Shruthi G M.Tech (Ph.D)
Smt. Evangeline D M.E
Smt. Vathsala.M K M.Tech (Ph.D)
Smt. Ashwitha A ME, (Ph.D)
Sri. Karthik V M.Tech (Ph.D)
Dr. M Sinthuja ME, Ph.D
Dr. P Anita M.Tech, Ph.D
Sri. Mushtaq Ahmed D M M.Tech (Ph.D)
Smt. Kusuma S M.Tech (Ph.D)

- Design and Development of Head Mounted Assistive Device for the Blind – IEEE.
- Development of prototype for detecting snakes in farm land using Edge computing algorithms – VGST.
- Developing Teaching Learning Apps for differently abled students - Saroj R Dsad Trust, New Delhi.



INTERNATIONAL AWARDS

- UNESCO India Africa Hackathon-2022
- RAPID – A global Open API Challenge Virtual Event -2021
- ASEAN India Hackathon-2021
- Microsoft Imagine Cup –2020
- Hedera Hashgraph-2018

NATIONAL AWARDS

- Smart India Hackathon – 2022/2020/19/18
- Matlab Hackathon – 2022
- Code Fury 3.0 - 2020/19
- Solve for India Hack -2021
- Technical Festival, IIT-Goa – 2021
- NEC Travel Hack – 2019
- Global gaming hackathon– 2019
- Cognizant Master code – 2019
- Hackman 5.0 -2022
- AI Hackathon.-2022
- HUL BFS Hackathon- 2019
- GitHub Hackathon- 2018
- ISKCON Hackathon– 2019
- Manipal Hackathon– 2019
- Code Hackathon, IBM– 2019

ACTIVITIES WITH INDUSTRIES

- Campus Research Projects
- Monthly Talks
- Faculty interaction Program
- Industry Tour
- Career Readiness Program
- Students Training Program
- Consultancy
- Curriculum Design
- Partial delivery of Course
- Internship/ Placements
- Workshop

STUDENT CENTRIC ACTIVITIES

- Long/Short term Internship
- Immersion Program
- Research Paper Publications
- Student Driven Technical Clubs
- e-Learning through Impartus
- Eco-system for inter-disciplinary projects
- Outcome Based Teaching Learning Process
- Counselling on career choice
- "Honors" degree

INDUSTRY COLLABORATION



ELECTRONICS & TELECOMMUNICATION ENGINEERING



Dr. B.K. Sujatha
Professor & Head

The department of Electronics & Telecommunication Engineering was established in 1996 to address the increasing demand for professionals with expertise in communication and networking technology in India. The department has state of the art laboratories, equipment's, resources and committed faculty having best of the academic and industry recognition. The department started a M.Tech program in Digital Communication in the year 2004. The department started a Research Centre in the year 2012 and currently has 12 Research Scholars carrying out their Research. Department has collaborations with some of the leading industries like Ansys, Rohde & Schwarz, JV Micronics, Nokia, Samsung, ABB and with leading national and international universities like Bradley University, Stanford University, IIT-M, enabling the department to focus on R&D, and thus providing new avenues for PG/UG students for placement and higher studies. Department is accredited by the National Board of Accreditation under AICTE. There are 5 Funded Research projects (Industry and Government) ongoing in the department involving students to carry out innovative projects. Many professional activities are organized regularly to the students under various professional societies like IEEE Sensors Council, IEEE Communication Society, IEEE Antenna and Propagation Society, IEEE MTTs and IETE Bangalore.

The department of ETE has established the Centre of Excellence – Center for Antennas and Radio Frequency Systems jointly with ECE department on 24 th March 2021 to engage in advanced research leading to innovation on the areas of Antennas & RF Systems. The CARFS has the state of art facilities to collaborate with Researchers in other institutes across the state.

ACTIVITIES

PAPER PRESENTED

Paper Presented: National and International Journals & Conferences: 220

FUNDED PROJECT

Department of Electronics and Telecommunication Engineering has received various funded projects from reputed Organizations like **DST, VGST K-FIST, AICTE, ABB, BOEING, KSCST, NPMASST**, Stanford University and so on., amounting to more than 2 Crores. The projects received are in the domain of Internet of Things, Wearable devices, Wireless Networks, Antenna Design, MEMS etc.

ONGOING

1. Project titled "Design, Development and Prototyping of High Accuracy NavIC Receiver for Rapid Topographic Survey" sponsored by DST – Device Development Programme Rs.53 lakhs. November 2021 under the guidance of Dr Shobha K R, Principal Investigator, Dr Parimala P, CO-PI, Nisha SL, CO-PI.
2. Project titled "Enabling Functional Mobility through Advanced Gait Analysis and Virtual Reality", under BIRAC- Promoting Academic Research Conversion to Enterprise (PACE) scheme during Jan 2021for Rs. 21.4 lakhs under the guidance of Principal Investigator Dr.Viswanath Talasila
3. Project titled "Centre of Learning for setting up Microwave and Antenna Lab" sponsored by VGST K-FIST Level 2 under the guidance of Dr. B.K. Sujatha, Principal Investigator and Co-PI Dr. Swetha Amit.
4. Project titled "Development of a Prosumer Driven Integrated SMART Grid" sponsored by DST under the guidance of Dr.Viswanath Talasila.

FACULTY

PROFESSOR & HOD

Dr. B. K. Sujatha, M.E., Ph.D

PROFESSOR

Dr. Viswanath Talasila, PhD, Post Doc

ASSOCIATE PROFESSORS

Dr. Shobha K. R., M.E., Ph.D

Dr. Satish Tunga, M.E., Ph.D

Dr. S. G. Shivaprasad Yadav, M.Tech, Ph. D

ASSISTANT PROFESSORS

Dr. Parimala P, M. E., Ph. D

Dr. Venu K.N, M.Tech, Ph. D

Dr. Ramya H. R. , M.Tech, Ph. D

Smt. Nisha S.L., M.Tech, (Ph. D)

Smt. Kusuma S. M., M.Tech, (Ph. D)

Dr. Arvind Kumar G, M.Tech, Ph. D

Mrs. Akshata S Kori, M.Tech, (Ph. D)

STUDENTS ACHIEVEMENTS

- Mayur Gowda was awarded Best Outgoing Student for the batch 2018-2022.
- Vikash Kumar, Kumar Vaibhav and Vibha Narayan were awarded first prize for Final year UG project 2022 by RIT for the project Titled "Virtual Reality environment development for physical rehabilitation" under the guidance of Dr. Viswanath Talasila, Professor
- Abhishek J, Purneeth Banerjee and Kushal CP were awarded Second Prize for Final year UG project 2022 by RIT for the project Titled "IOT Based Hydroponics System" under the guidance of Dr. Arvind Kumar G, Assistant Professor.
- Ms. Vanishree R Nawati was awarded the best PG project for the project titled, "An electrically small, probe – fed Parasitically coupled antenna for breast Cancer detection", guided by Dr. B. K. Sujatha and Dr. Karthikeya G. S

FACULTY ACHIEVEMENTS

- Dr. B K Sujatha, Head, and Professor, Dept of Electronics and Telecommunication Engineering, Ramaiah Institute of Technology have received the Distinguished Woman Researcher in Electronics Engineering Award in the 7th Venus International Women Awards (VIWA 2022).
- Dr. Viswanath Talasila, Professor, Dept of Electronics & Telecommunication Engineering, Ramaiah Institute of Technology has delivered a video lecture on "Control Engineering" for NPTEL. This series of video lectures are being extensively utilized by most academicians students, research scholars, and Industries working in the domain of Control Systems.
- Dr. K R Shoba, Associate Professor, Dept of Electronics & Telecommunication Engineering, Ramaiah Institute of Technology has received the Lifetime Achievement Award from Novel Research Academy.



Microwave Lab



Ms. Vanishree R Nawati was awarded the best PG project



Industry visit to BEL



Anechoic Chamber- Centre for Antennas and Radio Frequency Systems



Analog Circuit Design Lab



Communication Lab

MEDICAL ELECTRONICS ENGINEERING



Dr. C.K. Narayanappa
Associate Professor & Head

The Medical Electronics Engineering department at M. S. Ramaiah Institute of Technology (MSRIT), Bangalore was started in the year 1996. The department offers 4-year full time U. G. Degree - B. E in Medical Electronics Engineering, affiliated to VTU, Belagavi, recognized by Government of Karnataka, approved by AICTE, New Delhi and accredited by NBA. In the year 2012, the department was recognized as research centre by VTU and is actively involved in R & D activities in the area of Biomedical Signal Processing, Image Processing and Instrumentation.

The department has 10 experienced Faculty members and is located at Lecture Hall Complex of MSRIT Campus. It is uniquely connected to MSR Medical College, Teaching and Memorial Hospitals as well. Funded projects under the department include IEEE Foundation, DBT, DST, IGCAR and VGST.

These projects focus on the advances that improve human health and health care at all levels through application of the principles and problem-solving techniques of engineering to biology and medicine.

The department has significant publications to its credit.

The current curriculum is reviewed by experts from GE Healthcare, Samsung Research, Forus Healthcare, Philips and M.S.Ramaiah Medical College & Hospital. The department conducts workshops, various skill based training programs and industry visits for giving the students an exposure to the latest developments in the industry. This also includes a mandatory 4-week internship at industry or hospital between III and IV year.

ACTIVITIES

FACULTY PUBLICATION

Number of National and International Journals (Jan-Dec'2021): 24

Number of National and International Conferences (Jan-Dec'2021): 07

STUDENT ACHIEVEMENTS

The students are encouraged to participate in co-curricular and extra-curricular activities at the department level, institute level and beyond. There is active participation by the students for various competitive technical and sporting events.

Co-curricular Activities:

- Sheik Mohammed Maaz, USN:1MS20MD027, "Agriculture in New Era", ICRITCSA-2022
- Arshya Loomba, USN:1MS19ML011, "Assessment of the effect of meditation in healthy human beings with the aid of auditory intensity discrimination aided psychophysics", ICRITCSA 2022
- Sheik Mohammad Maaz, USN:1MS20MD027, has won first prize in Hackathon on Innovation Project "Surge India" 22nd Apr 2022 conducted at RIT, Bangalore
- Sheik Mohammad Maaz, USN: 1MS20MD027, has won startup Fellowship – Amount of \$200,000 to build technical and marketing credits at International Level.

Extra-curricular Activities:

- Amitha A, 1MS19ML007, has won first prize in event "Cooking without Fire" in RIT campus
- Gonugunta Shreya, 1MS19ML020, has secured second place in classical vocal at VTU Festival 2022
- Shashank Gautam, 1MS21MD036, has secured third place in group song (INDIAN) at VTU Festival 2022
- V P Aishwarya, 1MS20MD037, has won Second Place in Choreography in Haicyon 2022 at State level, conducted on 16-18, June 2022
- V P Aishwarya, 1MS20MD037, INTERACT – 2022, Western Group dance, Winner conducted by University level, GAT, Bangalore
- V P Aishwarya, 1MS20MD037, third prize in Western Group dance at State level, conducted in Presidency University, Bangalore

FACULTY

ASSOCIATE PROFESSOR & HOD

Dr. C K Narayanappa - M.Tech., Ph.D.,

PROFESSOR

Dr. N Sriraam - M.Tech., Ph.D.,

ASSOCIATE PROFESSORS

Dr. Prabha Ravi - M.Sc., Ph.D.,

Dr. Uma Arun - M.S., Ph.D.,

ASSISTANT PROFESSORS

Dr. S J Mahendra - M.Tech. Ph.D.,

Dr. Basavaraj Hiremath - M.Tech., Ph.D.,

Dr. Tejaswini S - M.Tech., Ph.D.,

Dr. Sweeti - M.Tech., Ph.D.,

Dr. Y S Sumathy- M.Tech., Ph.D.,

Dr. Lakshminarayana M - M.Tech., Ph.D.,

VISITING FACULTY

Dr. Anupama - MBBS, Ph.D

Dr. Zaina P - MBBS, Ph.D

RESEARCH & DEVELOPMENT

The Department's R & D focuses on three areas such as system design, system software and system interface. Faculty and students of the department have 45 publications in peer-reviewed international journals and conferences in the last two years. The total number of Ph.Ds awarded from the department research centre is 05 and M.Sc.(Engg.) by Research is 01.





Medical Software Laboratory



Diagnostic & Therapeutic Laboratory



Project -R & D Laboratory



Medical Instrumentation Laboratory



Medical Electronics Laboratory



One Week FDP On "Artificial Intelligence in Medical Imaging - Fundamentals and Innovative Applications" from 19.09.2022-24.09.2022



Medical Electronics Engineering students won Kabaddi women at Intra collegiate level

BIOTECHNOLOGY



Dr. Chandrababha M N
Professor & Head

The Department of Biotechnology established in 2002 offers a four year B.E. Biotechnology Program with an intake of 60 students and a two-year M.Tech. Biotechnology Program with an intake of 18 students. The UG and PG curriculum emphasizes on biology-engineering interface bringing together engineering principles and life sciences to impart knowledge in core areas of Biotechnology. Both UG and PG Programs are accredited by the National Board of Accreditation (NBA). The Department is a recognized Research Centre by VTU, Belgaum, offering M.Sc (Engg.) by research and PhD programs. The Department also offers a Post Graduate Diploma in Biopharmaceutical Technology under the Biotechnology Skill Enhancement Programme (BiSEP), supported by the Department of IT & BT, Government of Karnataka.

The Department has 15 faculty members, of them 14 are Ph.D holders. The faculty members have competence in core areas of Biotechnology viz. Food and Agricultural Biotechnology; Health and Medical Biotechnology; Environmental Biotechnology and Bioprocess Engineering. The faculty members have expertise in diverse disciplines of Biotechnology with focused research funded by national/state funding agencies (DST, AICTE, KBITS, VGST, VTU, RGUHS etc.). The average publications of the department in SCI and SCOPUS indexed journals is 30/year.

The Department has well equipped academic laboratories and state-of-the art research laboratories. High quality research-based in-house projects guided by the faculty have attracted state funding, resulted in publications in high impact journals and won Best project awards at the state level. Students carry out their internships at various premier institutes in India and abroad. Several students receive the prestigious Indian Science Academies Fellowship (INSA) and Jawaharlal Nehru Centre for Advanced Scientific Research (JNC SAR) Summer research fellowship. Every year, a sizeable number of graduate students pursue their higher education at various premier Institutes in India and abroad after qualifying GATE, GRE & TOEFL exams. The Department has established student clubs and professional student chapters to provide collaborative learning platform for the students. Students at Department of Biotechnology not only excel in academics but also have received awards and recognitions in various extra-curricular activities.

ACTIVITIES

Research Publications (June 2021 – October 2022)

Publications in SCI & WoS indexed journals–53

FACULTY

PROFESSOR & HOD

Dr. Chandrababha M N, Ph.D

PROFESSORS

Dr. Bindu S, Ph.D

ASSOCIATE PROFESSORS

Dr. Dhamodhar P, Ph.D

Dr. Ahalya N, Ph.D

Dr. Y S Ravikumar, Ph.D

Dr. Prabha M, Ph.D

ASSISTANT PROFESSORS

Dr. Lokesh K N, Ph.D

Dr. Samrat K, Ph.D

Mr. M Gokulakrishnan, (Ph.D)

Dr. Bhavya S G, Ph.D

Dr. T P Krishna Murthy, Ph.D

Dr. Abhijith S R, Ph.D

Dr. Roshni Ramachadran, Ph.D

Dr. Priyadarshini Dey, Ph.D

RESEARCH PROJECTS

COMPLETED PROJECTS

1. Genetic Profiling of *Candida tropicalis* (5,000 USD) (Bristol - Myers Squibb, (NJ, USA)
2. Development of an extraction process to increase the yield of natural indigo dye from *Indigofera tinctoria*: Increasing profit margins and promoting the use of natural dye among traditional ilekal artisans in Karnataka. (3.25 lakhs) (DST).
3. Characterization and control of *Candida* sp., associated polymicrobial biofilms causing reproductive tract infections and fouling of prosthetics in women (16.89 lakhs) (DST).
4. Control of *Candida* biofilms causing vulvovaginitis in women using household spices and herbs. (24.74 lakhs) (DST).
5. In Vitro studies on effects of carbon nanotubes on antioxidant mechanism in human neuronal cells (0.8 Lakhs) (IEI).
6. Inhibitory effect of fruit extracts on the formation of heterocyclic amines in meat. (4.0 lakhs) (VGST).
7. Development of sustainable bioreactor technology for removal of arsenic by *Desulfovibrio desulfuricans*. (10.5 lakhs) (AICTE).
8. Bioremediation of arsenical mine wastes by *Acidithiobacillus ferrooxidans*: A lab based study. (7.84 lakhs) (VTU).
9. Development of Sulphate Reduction Technology in an anaerobic digester for abatement of acid mine drainage. (29.75 lakhs) (DST).
10. Molecular analysis of *Enterococcus faecalis* associated with endodontic infections in Bangalore urban population (0.40 lakhs) (RGHUS).
11. Isolation and characterization of Microflora associated with Dental Caries and their Molecular analysis. (0.50 lakhs) (RGHUS).

ONGOING PROJECTS

1. Development of an antimicrobial lock therapy solution for control of candida albicans under flow conditions (4.5 Lakhs) (KSCST).
2. Coffee Waste Utilization for the production of food oligosaccharides (3.30 Lakhs). (RIT Seed Fund).
3. Development of a Biocompatible Poly (L-Lactic Acid)- Chitosan hydrogel scaffold for neuronal regeneration(32.90 Lakhs), (DST).
4. An investigation of the role of S-acylation in cardiac hypertrophy – proteomics, site-specific mutation and molecular dynamics simulations approach(18.30 Lakhs), (DST).
5. A biological strategy to enhance chronic wound healing in patients using Human Autologous Platelet –Rich Plasma (2.60 Lakhs), (RIT Seed Fund).
6. Design of structurally modified nanoceria with enhanced haloperoxidase activity to combat sulphate reducing bacteria (SRB) induced biocorrosion: A biomimetic approach to combat microbiologically –influenced corrosion (MIC) of marine(41.83 Lakhs), (DST).
7. Designing of novel biocompatible and multifunctional nano ceramic coatings for medical implants (30.0 Lakhs), (VGST).
8. Stimuli responsive polymeric particles containing iron (iii) chelating bioactive ligands for mitigation of intracellular labile iron pool (LIP) (18.30 Lakhs), (DST).
9. Biotechnology Skill Enhancement Programme (BiSEP)–Biopharmaceutical Technology (162.5 Lakhs), (KBITS).
10. Enhanced production of Indican(precursor of Indigo Dye) from cell suspension culture of Indigofera tinctoria and its up scaling through bioreactor. (23.72 Lakhs) (DST).

Student Achievements (2021-2022)

- Student Publications in Scopus indexed Journals -07
- International Internships – 02
- International scholarship for higher studies – 06
- National Scholarship for Higher studies – 02
- Nimsha Kamala N S, VI semester, Ramaiah Institute of Technology has received INSA Summer Research Fellowship.
- Nimsha Kamala N S, VI semester, Ramaiah Institute of Technology is the 2nd runner up of the South Zone Public Speaking Contest “Voice of BT” held on 30 September 2022 at Sastra University, Thanjavur, Tamil Nadu.



- Pooja G, VIII semester, won Best paper presentation award, Oral Presentation at International Conference on Functional Materials, Energy, Environment and Biomedical Applications, Bishop Heber College.
- Trupthi Joshi, received Full EMJMD scholarship \$1125 per month, Erasmus Mundus scholarship by European Union for higher studies at University of Groningen, Netherland.
- Janvi Tirlapur & group - VIII semester BE project funded under Karnataka State Council for Science & Technology (KSCST) 45th SPP Scheme 2022.
- Niyati Navaneeth, won 2nd place in solo dance, “Prathidhwani”, Inter collegiate cultural fest, UTSAV-ENVISAGE held on 27th of May 2022.
- Harini Satish, VI Semester, won 3rd place in “Basketball’ Inter Collegiate zonal tournament held at JSSATE Bangalore on 17-18 December 2021.

- Harini Satish, VI Semester, won 4th place in “Tennis’ Inter Collegiate zonal tournament held at JSSATE Bangalore on 31st December 2021 and 1st January 2022.
- Soumya Sakshi, VI semester, won 2nd place in a group dance, Step up group dance event at Utsaha Vaibhava, BMS Institute of Technology & Management, Yelahanka on 24th and 25th July 2022

MOUs/ INTERACTION WITH INDUSTRIES

Merck Life Science Pvt Ltd, Biocon Private Limited, Himalaya Drug Company, Sartorius Stedim Biotech India Private Limited, Beckman Coulter, Hindustan Unilever Limited, Biocon/ Bristol Meyers Squibb India Limited, Sami Labs, Genotypic Technologies, GanGagan Biotechnologies, Aristogene Biosciences, Celest Pharma, ReaGene Biosciences, Acquity Labs, Kemwell Biopharma Pvt. Ltd, Nestle India Pvt Ltd & Novozymes India Pvt Ltd. Bioman Technology, Beckman Coulter Life Sciences & Bionovid Technology Pvt Ltd.

Events Organised

- Fourth International Conference on Recent Advances in Engineering Sciences was organized by in collaborations with Department of Biotechnology, Mechanical Engg, IEM, Civil Engg & Chemical Engg, RIT, 13-14 Oct 2022.
- Five Days Hands-on Training Program on “Cancer Tools and Techniques” in collaboration with Merck Life Science Pvt Ltd & Department of Biotechnology, RIT, 22 - 26 August 2022
- Three-day Impact Lecture Series on “World Environmental Day” Collaboration with Department of Biotechnology & Department of Mechanical Engineering, RIT, 7–9 June 2022.



- Lecture Series on “Industrial perspectives on Biopharmaceutical processes and applications” Collaboration with Merck Life Science Pvt Ltd & Department of Biotechnology, RIT, March -May 2022.
- One Week Workshop on “Advances and Applications of Nanobiotechnology” organized under Indian Institute of Chemical Engineers (IICChE), RIT, October 2021.
- One Week Faculty Development Programme on “Recent Advances and Opportunities in Industrial Biotechnology” organized under Association of Biotechnology Led Enterprises (ABLE), India, RIT, 4 – 9 October 2021.

COMPUTER SCIENCE AND ENGINEERING

(Artificial Intelligence and Machine Learning)

&

COMPUTER SCIENCE AND ENGINEERING

(Cyber Security)



Dr. Thippeswamy M N
Professor & Head

The Department of Computer Science and Engineering (AI & ML) and Department of Computer Science and Engineering (Cyber Security) were established in 2021 to meet the needs of the emerging IT industry and research.

The departments have eminent professors and faculty with doctorate degrees. The faculty have been publishing research papers in refereed journals and in conference proceedings. The departments have state-of-the-art laboratories and class rooms. The departments conducts Technical seminars, workshops and hackathons regularly for students. The departments encourages the students to conduct and participate in extra- curricular/sports activities. The departments conducts courses with more hands- on sessions and encourages students to take up MOOC based online courses in NPTEL, IITBombayX, Coursera, Udacity, Udemy and edX.

ACTIVITIES

PAPER Published:

Twenty-four research papers were published in national/international journals/conferences.

FUNDED PROJECTS AND CONSULTANCY:

- Development and Demonstration of smart hybrid solar-biomass cold storage system for Agricultural products Co-Investigator VTU-Belagavi 23/02/2022, INR.700000/- .
- Consultancy Project on Predictive Analytics on agglomerated data for WeOne Solutions from March-July 2021 with sanctioned amount Rs. 35000+GST.

AWARDS

- Dr. M N Thippeswamy received CMI Level 5 Award in Management and leadership on 29-10-2021 AICTE, CMI, U.K.
- Dr. Sini Anna Alex received RULA Research Ratna Award, for International Innovation and Betterment Excellence in Technical Research titled "Innovative Researcher in Pervasive Computing", IJRULA Best Paper Award.

INDUSTRY COLLABORATIONS

- Koo India, Bangalore
- Pinaacle Technologies Pvt Ltd, Bangalore
- SUBEX
- IBM India
- FlyCamp
- Project Implementation and training – SAMSUNG, UNISYS, Bionaltek
- Training- Wondersys, SAP

FACULTY

PROFESSOR & HOD

Dr. M N Thippeswamy - Ph.D.

PROFESSOR

Dr. Siddesh G M - Ph.D.

ASSOCIATE PROFESSOR

Dr. Mohana Kumar S - Ph.D.

Dr. Sini Anna Alex - Ph.D.

ASSISTANT PROFESSOR

Mrs. Akshatha G C - M.Tech (Ph.D.)

Mrs. Pallavi T P - M.Tech

BOOKS PUBLISHED

- Advanced Engineering Research and Applications Aera, Dankan V Gowda, Ramachandra A C, Thippeswamy M N, Pandurangappa C, 1st Edition.
- Handbook on Computer and Information Technology' VOL.II HCIT', 1ST EDITION, Dankan V Gowda, Ramachandra A C, Thippeswamy M N, Pandurangappa C, 1st Edition.
- Dr. Siddesh, Et al, Society 5.0: Smart Future Towards Enhancing the Quality of Society, Springer Nature.
- Dr. Siddesh Et al, Artificial Intelligence for Information Management: A Healthcare Perspective, Springer Nature.
- Dr. Siddesh Et al, Statistical Modelling and Machine Learning Principles for Bioinformatics Techniques, Tools, and Applications, Springer Nature.
- Dr. Siddesh Et al, Network Data Analytics: A Hands-On Approach for Application Development, Springer Nature.
- Dr. Siddesh Et al, Internet of Things, Cengage Learning.
- Dr. Siddesh Et al, The Rise of Fog Computing in the Digital Era, IGI Global.
- Dr. Siddesh Et al, Statistical Programming in R, Oxford University Press.
- Dr. Siddesh Et al, Cyber Physical Systems: A Computational Perspective, CRC press, Taylor & Francis Group.



Students who participated in the Smart India Hackathon - 2022 in Mumbai.

STUDENT ACHIEVEMENTS

- Ansh Singhal (IMS21CI006) was certified as the "best overall performer" in Tersho's python course.
- Ansh Singhal (IMS21CI006) was the winner of the 6-month Replit HackerPlan.
- Venkatesh R, Kushal S Ballari, Jedi Samy and Jeswin MS, CSE(AI&ML), 2nd year, have secured 1st place in the competition "Let's Find Out" conducted on November 21 2022.
- Venkatesh R, Kushal S Ballari, N Sudharshan Reddy and Aniruddh Mantrala, CSE (AI&ML) 2nd year, have secured 1st place in the competition "**Hackaphasia**".
- Shravan was selected for an internship at a startup as a full-stack web developer and received special recognition at an ideathon competition. He developed a website for the IEEE Bangalore chapter, showcasing their events, initiatives, and contributions to the field of technology and engineering.
- Yash Gupta (IMS21CY062), H M Navneet (IMS21CY044), Rohan Santhosh (IMS21CY017) Surya K (IMS21CY056) has participated in Smart India Hackathon -2022.
- Abhishek M (IMS21CY004) participated in the RVITM Phantom code 2022 and cleared round 1 in the national Engineering Olympiad 6.0, securing 712th Rank at the All India level.
- Rohan Santhosh (IMS21CY044) from the CSE (Cybersecurity) won a video editing competition conducted by ECell RIT.
- M Dinesh Gokul Das (IMS21CY029) of the CSE(Cyber security) finished as a semi-finalist in the Innovative Entrepreneurship competition conducted by Avery Dennison Foundation.



CSE(AI&ML) students are attending Mr. Devesh talk on Drone Technology



CSE(AI&ML) students have attended the drone technology workshop



Dinesh, winner Avery Dennison Foundation Competition & represented institute in kho kho and athletics 800m.



CSE (Cyber Security) students with Dr. Manoj CEO Pinnacle Consulting Ltd.



Mr. Harsh Singhal, Head, ML, Koo, India delivering talk to CSE(AI & ML) and CSE(Cyber security) Students.



CSE (AIML) & CSE (Cyber Security) students visited the SAP on 9 December 2022



CSE (Cyber Security) and CSE(AI&ML) students are interacting with Mr. Upen Pradhan, Subex, Bangalore

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



Dr. Anita Kanavalli
Professor & Head

The Department of Artificial Intelligence and Data Science was established in 2021 to meet the needs of the emerging IT industry and research.

The department has eminent professors and faculty with doctorate degrees. The faculty has published research papers in refereed journals and conference proceedings. The department has state-of-the-art laboratories and classrooms. The department conducts Technical seminars, workshops and hackathons regularly for students. The department encourages the students to conduct and participate in extracurricular/sports activities. The department conducts courses with more hands-on sessions and encourages students to take up MOOC-based online courses in NPTEL, IIT Bombay, Coursera, Udacity, Udemyl and edX.

ACTIVITIES

PAPER Published (For AY 2021-22)

Twenty-five articles were published in national/international journals/conferences.

FUNDED PROJECTS AND CONSULTANCY

- Consultancy Project on Development of a full stack web application solution for companies in shipping domain by Leoxipraade Pvt. Ltd. Bangalore with sanctioned amount Rs. 15000+GST
- Consultancy Project on Web Interface Development for CBTAS (Cloud Based Thermal Analysis System) by SNAM Alloys Pvt. Ltd, Hosur, Tamil Nadu with sanctioned amount Rs. 8.25 Lakhs.
- Funded Project on Technology Development and Automation of Hydroponic Farms in Urban areas using enhanced precision farming by incorporating IoT and Cyber Physical System by VGST with sanctioned amount Rs. 3.00 lakhs.
- Consultancy Project on Identification and Analysis of Performance indicators of waste processing, integrated with the design of corporate website to auto-update the indicators by Swachha Eco Solutions, Bangalore with sanctioned amount Rs. 61,000.
- Consultancy Project on Search and Rescue using Drones by Fly Camp Bangalore with sanctioned amount Rs. 20,000.
- Consultancy Project on AI and ML Training by Wondersys Automation, Bangalore with sanctioned amount Rs. 15,000.

BOOKS PUBLISHED

Statistical Programming in R, Oxford University Press.

FACULTY

PROFESSOR & HOD

Dr. Anita Kanavalli - Ph.D.

ASSOCIATE PROFESSOR

Dr. Sowmya B J - Ph.D.

ASSISTANT PROFESSOR

Mr. Vinay T R - M.Tech(Ph.D.)

Mrs. Swetha B N - M.Tech

STUDENT ACHIEVEMENTS

- The Students from Artificial Intelligence and Data Science department have participated and won in many technical events like Hackathon, and Ideathon.
- The students Deepak Dhakad and Riddhi Rai won the Mathematics Quiz.
- Riddhi Rai participated and presented their innovative ideas at the 73rd International Astronautical Congress conference held from 18th to 22nd September 2022 in Paris.
- The Students have excelled in the co-curricular activities.
- Yashashwini Singh represented Ramaiah in VTU Bangalore Zone CHESS Tournament 2022 organized by TOCE.

INDUSTRY COLLABORATIONS

- CISCO
- SUBEX
- IBM India
- FlyCamp
- Project Implementation and training- SAMSUNG, UNISYS, Bionaltek
- Training- Wondersys



ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



Dr. Jagadish S Kallimani
Professor & Head

The department of Artificial Intelligence & Machine Learning was established in the year 2021 to meet the needs of the emerging IT industry and research. The department has eminent professors and faculty with doctorate degrees. The faculty has publishing research papers in refereed journals and in conference proceedings. The department has state-of-the-art laboratories and class rooms. The department conducts Technical seminars, workshops and hackathons regularly for students. The department encourages the students to conduct and participate in extra- curricular/sports activities. The department conducts courses with more hands-on sessions and encourages students to take up MOOC based online courses in NPTEL, IIT Bombay, Coursera, Udacity, UdeMY and edX.

ACTIVITIES

PAPER Published (For AY 2021-22)

Twenty-one articles were published in national/international journals/conferences.

FUNDED PROJECTS AND CONSULTANCY

- Development and Demonstration of smart hybrid solar-biomass cold storage system for Agricultural products Co-Investigator VTU-Belagavi 23/02/2022, INR.700000/-
- Consultancy Project on Identification and Analysis of Performance Indicators of Waste Processing, Integrated with the Design of Corporate Website to Auto-update the Indicators by Swachha Eco Solutions, Bangalore with sanctioned amount Rs. 61,000/-
- Consultancy Project on Search and Rescue using Drones by Fly Camp Bangalore with sanctioned amount Rs. 20,000.

FACULTY

PROFESSOR & HOD

Dr. Jagadish S. Kallimani - Ph.D.

ASSOCIATE PROFESSOR

Dr. Meeradevi - Ph.D.

ASSISTANT PROFESSOR

Mrs. Megha J - M.Tech (Ph.D)

STUDENT ACHIEVEMENTS

- Aayush Shukla, A Strategic Approach To Tackle Interplanetary Communication Delay: Exploiting Artificial Intelligence Solutions For Future Space Exploration, Presented paper in 73rd International Astronautical Congress (IAC), Paris, France, 18-22 September 2022
- Students participated in many technical events like Hackathon, and Ideathon.
- The students participated and won the Mathematics Quiz.
- The Students have excelled in the co-curricular activities.

INDUSTRY COLLABORATIONS

- Fly Camp.
- Project Implementation and training- SAMSUNG, UNISYS.





2nd Industrial Visit ✨

Industrial Visit to Aerospace Park



Riddhi Rai Presenting her research article in International Astronautical Congress conference held from 18th to 22nd September 2022



Our Students at Project Exhibition presenting their Innovative Ideas



Aayush Shukla Presenting her research article in International Astronautical Congress conference held from 18th to 22nd September 2022



Java Training by GDSC for 3rd semester



Students at CentuRITon



Students at NSS Activities.

ARCHITECTURE



Prof. Pushpa Devanathan
Professor & Head

The School of Architecture in MSRIT is instituted in 1992. Addressing the growing needs of the metropolitan city, it caters to the demand of Architectural education. The SOA – RIT currently offers 5 years Bachelor in Architecture (B.Arch), 2 years Masters in Architecture M.Arch (Landscape Architecture) program and Research Program in Architecture. These programs are recognized by COA and AICTE. The School of Architecture is part of Ramaiah Institute of Technology, an Autonomous institution from 2007 affiliated to Visveswaraya Technological University. With successful completion of more than 30 years of its existence, School of Architecture has made its presence felt in the area of Architectural Education in India. The Department executes various research and consultancy projects. The faculty consists of senior professionals and various expertise with good experience in industry and academics. Students across India and Abroad enrol for the course and many have been recognized for their academic achievements. The School of Architecture encourages students to think outside the box, and gives them ample opportunities to do so.

'INSPIRIT'- an annual intercollege fest organized by the students and faculty of the School paves way for excellence in creative fields. Nationally and Internationally renowned architects are invited to present best world to inspire and motivate the students. The annual magazine of the School of Architecture, 'RENDER', brings forward the literary, artistic talent and creative abilities of the Students.

All allied and supporting subjects related to Architecture and allied field are covered and through conducting regular workshops, guest lectures, conferences, faculty development programs as part of the development and progress of the school for the benefits of students, faculty and professor.

Annual study tours, both national and international, sites/field visits are conducted to expose students to exposed due to outer world of Architecture

The School has faculty, expertise in areas like Architecture, Professional Practice, Construction & Project Management, Building Engineering & Management, Interior Design, Urban Design, City Planning, Urban Planning, Urban Design, Product Design, Landscape Architecture, Environmental Planning, Conservation, Housing, Fine Arts, Habitat Design, Infrastructure System and Advanced Architectural Design, and Many more

ACTIVITIES

PAPER PRESENTED

National and International Journals and conferences – 20

FACULTY

PROFESSOR & HOD

Prof. Pushpa Devanathan - M.Arch(Hab Des), P.G.D.I (Ph.D)

PROFESSOR & HEAD - M. Arch (Landscape Architecture)

Dr. Rajshekhar Rao - M Arch (Landscape Arch.), Ph. D

PROFESSORS

Prof. Vishwas Hittalmani - M Des

Prof. Jotirmay Chari - M Arch (Ph.D)

ASSOCIATE PROFESSORS

Dr. Rashmi Niranjana - MFA (Fine Arts), Ph.D

Dr. Monalisa - M Arch, Ph.D

Ar. Surekha R

- M Arch (Landscape Arch.) (Ph.D)

Ar. Lavanya Vikram - M Arch (Landscape Arch.) (Ph.D)

Ar. Sudha Kumari G - M Arch (Habitat Design)

Ar. Meghana K Raj - M Arch (Landscape Arch.) (Ph.D)

Ar. Tejaswini H - M Arch (Landscape Arch.) (Ph.D)

Ar. Reema Harish Gupta - M Arch (Urban Design)

ASSISTANT PROFESSORS

Er. M Vijayanand - M Tech (PhD)

Er. Aruna Gopal - B.E (M.Sc.)

Ar. Kriti Bhalla - B Arch

Ar. Aishwarya Yoganand - M.Sc.(Sustainable Building Systems)

Ar. Divya Susanna Ebin - M Arch (Urban Design)

Ar. Ranjitha Govindaraj - M Arch (Landscape Architecture)

Ar. Theju V Gowda - M.Sc. (Architecture)

Ar. Akshata Shagoti - M Arch (Architectural Design)

Ar. Amala Anna Jacob - M Arch (Urban Design)

Ar. Meghana M - M A (World Heritage Studies)

Ar. Megha Ann Jose - M Arch (Interior Architecture & Design)

Ar. Pooja M Naik - M Arch (Urban Planning & Management)

Ar. Anupama D - M.Plan (Masters of Urban Regional Planning)

Ar. Katre Tanvi Sanjeev - M. Plan (Masters of Environmental Planning)

Ar. Vidya Mohan - M Arch (Urban Planning & Refurbishment)

Ar. Sreesha S Bhatt - M Arch (Urban Design)

Ar. Harshitha D - M Arch (Urban Design)

Ar. Joyce Sequeira - M Plan (Urban Planning)

Ar. Shwetha P E - M Arch (Urban Design)

Ar. Pinki Bose - M Arch (Urban Design)

Ar. Sruti R - M Arch (Urban Design)

TENURE FACULTY

Ar. Prasad G - M Arch (Landscape Arch.)

Ar. Mallika P V - M Arch (Landscape Arch.)

Ar. Sudhir Chougule - M Arch (Landscape Arch.)

Ar. Nikhil V Wodeyar - P G (Urban Design)

Ar. Aswini Mani - M Arch

VISITING FACULTY

Ar. Meghana Vikram - B Arch

Ar. Shalini Srikanth - B Arch

Ar. Prethish Chandrasekaran - B Arch

Ar. Prathibha Ramesh - B Arch

Ar. Santhosh N Madbhavi - B Arch

Ar. Sowmya R - M Arch (Landscape Arch.)

Ar. Deepthi C B - M Arch (Landscape Arch.)

Ar. Bijoy Chacko - M Arch (Landscape Arch.)

Ar. Nina Chandavarkar - M Arch (Landscape Arch.)

Ar. Girish S - B. Arch

Ar. Gurukiran Sanga - B.Arch

Ar. Shreedhar K Mobar - B Arch

Ar. Ashwini Ashwath K - M Arch (Urban Design)

Ar. Shivaraj V Bhnsanur - B Arch

Ar. Naveen K V - B Arch

Ar. Deepa Rabindra - M Arch (Landscape Arch.)



BASIC SCIENCES

Physics, Chemistry and Mathematics are the constituent subjects of basic sciences, common to all branches in the initial semesters. Each of the departments imparts effective subject knowledge supported by qualified and experienced staff. The departments are recognized as research centres by VTU and offer a Ph.D degree in the respective subjects.

PHYSICS



Dr. A. Jagannatha Reddy
Professor & Head

Physics department of RIT has well qualified and motivated faculty members who are actively engaged in teaching and research work. The mission of the department is to provide the best training through teaching and research to enable the students to master the concepts in Physics and kindle their interest in cutting edge research areas. The Department is recognized as a research Centre by VTU since 2008.

ACTIVITIES

PAPER PRESENTED

- In the last one year, 30 research articles have been published by the faculty members in the peer reviewed International journals of high impact factor.
- Two research projects funded by VGST and SERB to the tune of Rs. 45 Lakhs are ongoing in the department.
- 12 Ph.D. degrees are awarded by the Physics R & D centre and currently 9 research scholars are pursuing their Ph.D.

EVENTS CONDUCTED IN THE PREVIOUS ACADEMIC YEAR

- AICTE Sponsored One-week Faculty Development Programme (FDP) on "Research challenges in Atmospheric sciences with a Computing Edge" during 20 – 24 December 2021.
- "International Conference on Applied Research in Engineering Sciences (ICARES-2022)" on 24 & 25, November 2022.

FACULTY

PROFESSOR & HOD

Dr.A. Jagannatha Reddy - Ph.D

ASSOCIATE PROFESSORS

Dr. Seema Agarwal - Ph.D

ASSISTANT PROFESSORS

Dr. Ravindra M Melavanki - Ph.D

Dr. K.L. Sandhya - Ph.D

Dr. B. V. Nagesh - Ph.D

Dr. G. N. Anil Kumar - Ph.D

Dr. B. Siddlingeshwar - Ph.D

Dr. S. Vijayanthimala -Ph.D

Dr. Kalpana Sharma - Ph.D

Dr. Ambika M R - Ph.D



Physics Lab



Physics Lab

CHEMISTRY



Dr. B.M. Nagabhushana
Professor & Head

Department of chemistry was established in the year of 1962. The department consists of team of nine well qualified teachers with PhD, one visiting professor and one Research Scientist. The main activity of the department since its inception has been teaching chemistry (both theory and lab) to students of I and II semester of all the branches, III chemical engineering students and open electives for 6th and 8th semester BE students. Facility provided by the management of RIT and funding by TEQIP a modest research lab has been set up which has been recognised by VTU as a research centre.

Department is actively involved in guiding Ph.D, UG and PG final year projects for RIT and also out side RIT research scholars. At present active research in the department involves (i) Synthesis, characterization and study of properties of nano-materials, transition metal complexes and their applications. (ii) Photocatalysis (iii) Photoluminescence studies (iv) Synthetic Organic chemistry. There are 20 Ph.D's are awarded. Last five years the department published around 400 research articles in international peer reviewed journals.

ACTIVITIES

PAPER PRESENTED

National and International Journals and Conferences - 600

FUNDED PROJECTS

6 numbers

Awards/Citations

20 Best paper awards

7 Best Reviewer award

Google Scholar Citations - 13800

Industrial Collaborations

Established MoU with Sreram Institute of Industrial Research (SRI) Bangalore

FACULTY

PROFESSOR & HOD

Dr. B.M. Nagabhushana, M.Sc., Ph.D

ASSOCIATE PROFESSOR

Dr. Nagaraju Kottam, M.Sc., Ph.D

ASSISTANT PROFESSORS

Dr. M.N.Manjunatha, M.Sc., Ph.D

Dr.P. Murali Krishna, M.Sc., Ph.D

Dr. Basappa C Yallur, M.Sc., Ph.D

Dr. Maalathi C, M.Sc., Ph.D

Dr. Sharanabasappa Patil, M.Sc., Ph.D

Dr. R Hari Krishna, M.Sc., Ph.D

Dr. Gurushantha K, M.Sc., Ph.D

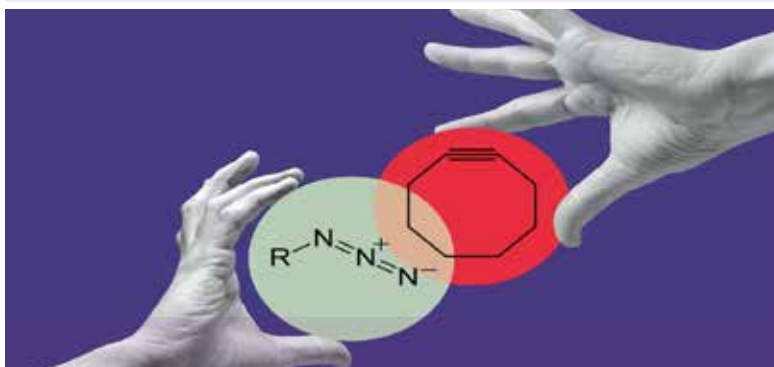
Dr. Sampath Chinnam, M.Sc., Ph.D



Half yearly 'Research Review Meetings (RRM)' by Department of Chemistry



Department of Chemistry regularly organizing 'Research Orientation for Research Aspirants (ROPRA)'



MATHEMATICS



Dr. N. L. Ramesh
Professor & Head

The department came into existence in the year 1962. The major focus of the department is to inculcate mathematical thinking in engineering students. For this, we teach core mathematics courses to students at undergraduate and postgraduate level as well as offer electives in mathematics.

The department has a staff strength of 23 members. At present, there are 22 Ph.D. holders. Current expertise of the faculty covers a broad range of areas including Fluid mechanics, Linear Algebra, Numerical Methods, Number Theory, Probability, Statistics and Queueing Theory. The department faculty have published many papers in national and international journals. In addition, the faculty members have also obtained extramural support to carry out research activities and projects sponsored by VTU, UGC, DST and TEQIP.

ACTIVITIES

- **Papers published in National / International journals: 144 since 2014.**
- **Papers presented in National / International conferences: 85**
- **Ph.D. awarded: 20 Research Scholars: 06**
- **Industrial collaborations : 02**
 - Snam alloys private limited, Hosur, Tamil Nadu along with Mechanical department.
 - Established MoU with The Bangalore Kidney Stone Hospital Bangalore
- **Annual Event:**
 - RIT slice of Pi – Quiz for 12th standard students
 - Maths Quiz MQ & MQ⁺ for 1st & 2nd year B.E. Students respectively.

FACULTY

PROFESSOR & HOD

Dr. N L Ramesh – M.Sc., Ph.D

PROFESSORS

Dr. S H C V Subba Bhatta – M.Sc., M.Phil, Ph.D

Dr. G Neeraja - M.Sc., Ph.D

ASSOCIATE PROFESSORS

Dr. Monica Anand - M.Sc., Ph.D.

Dr. Dinesh P A - M.Sc., M.Sc., (IT), M.Phil, Ph.D

ASSISTANT PROFESSORS

Dr. M V Govinda Raju - M.Sc., Ph.D

Dr. Vijaya kumar - M.Sc., M.Phil, Ph.D

Dr. A Sreevallabha Reddy - M.Sc., Ph.D

Dr. Suresh Babu R - M.Sc., M.Phil, Ph.D

Dr. M S Basavaraj - M.Sc., B.Ed, M.Phil, Ph.D

Mr. B Azghar Pasha - M.Sc., (Ph.D)

Dr. Aruna A S - M.Sc., M.Phil, Ph.D

Dr. Girinath Reddy M - M.Sc., M.Phil, Ph.D

Dr. Uma M - M.Sc., Ph.D

Dr. Ram Prasad S - M.Sc., M.Phil, Ph.D

Dr. Kavitha N - M.Sc., Ph.D

Dr. Sushma S - M.Sc., Ph.D

Dr. Y S Kalyan Chakravarthy - M.Sc., Ph.D

Dr. Shashi Prabha Gogate S - M.Sc., Ph.D

Dr. Praveena M M - M.Sc., Ph.D

Dr. Veena B N - M.Sc., Ph.D

Dr. Srikantha N - Ph.D

Dr. Sowmya G - Ph.D



RIT Slice of Pi - 2019



Mathematics Quiz MQ - 2019



Mathematics Quiz MQ⁺ - 2019

HUMANITIES



Dr. N. L. Ramesh
Professor & Incharge HOD

The Department of Humanities has seven faculty members, with three doctorates. The department engages in teaching Communicative English, Constitution of India, Kannada, Communication skills for BE/BArch students. Apart from this the department runs special classes/bridge courses in Communicative English to train NRI and rural students in English language usage. The faculty members engage in teaching-learning activities, research publications and conducting workshops for students to build social skills and broaden critical and creative competencies.

The department is also equipped with an English Language lab located in LHC block. First Year BE students take this course as a part of the subject Communicative English, Building Vocabulary, Grammar, Listening, Speaking skills, Power Point presentations and Group activities form integral part of the course.

FACULTY

PROFESSOR & INCHARGE HOD

Dr. N L Ramesh – M.Sc., Ph.D

ASSISTANT PROFESSORS

Dr. Premila Swamy D, M A, Ph.D

Mrs. Kanya Kumari, M A

Dr. Udaya Kumar H M, M A, Ph.D

Sri. Diwakar P, M A, (Ph.D)

VISITING FACULTY

Smt. Sukanya, M A

Ms. Nimmy V S, LLB

Dr. Kiran Magavi, M A, Ph.D

Smt. A R Annapurna, M A

ACTIVITIES

- Papers published in National / International journals: 24
- Books / Book Chapters Published : 11



MASTER OF COMPUTER APPLICATIONS

(MCA)



Dr. Seema S
Professor & Head

The Department of Master of Computer Applications was established in the year 1997 with the objective of producing high quality professionals to meet the demands of the emerging field of Computer Applications. A team of experienced staff members are dedicated to teaching and developing academic activities in the department. The department got academic autonomy in the year 2007 and is accredited by NBA. The Department of Master of Computer Applications is recognized as a Research Centre under Visvesvaraya Technological University in 2012. Department has well qualified and experienced eleven faculty members with seven Ph.D's. The department has well equipped Laboratories, it also has the facility to conduct specialized labs in -IOT, Cyber Forensics, Data Analytics, AWS, and Blockchain.

The Department is actively involved in Industrial Consultancy and Research work. The faculty have published more than 400 research papers in National/International Journal / conferences. Totally 23 research scholars are pursuing Ph.D. The department is actively associated with industry partnership, organizes Industry visit and interactions. Department regularly conducts Faculty/Student Development Programmes, Workshops, Seminars, Conferences on latest topics in the area of Computer Applications. Department conducts annual department technical fest-Abhyuday. Students actively participate in extracurricular and co-curricular activities and also contribute to the department Magazine(yearly)-Nalanda.

The Department is excelling in Research and Development Activities in the core areas such as Cloud computing, Data science, Blockchain, Artificial Intelligence, IOT, Cyber Forensics, and Software Engineering.

FACULTY

PROFESSOR & HOD

Dr. Seema S – Ph.D

ASSOCIATE PROFESSORS

Dr. S Ajitha – MCA, Ph.D

Dr. S Jagannatha - MCA, Ph.D

Dr. D Evangelin Geetha - MCA, Ph.D

ASSISTANT PROFESSORS

Dr. Madhu Bhan - MCA, Ph.D

Dr. M Mrunalini - MCA, Ph.D

Dr. Manish Kumar - MCA, Ph.D

Sri. Chethan Venkatesh - MCA, (Ph.D)

Ms. B N Nithya - MCA, (Ph.D)

Mr. Abhishek K L - M.Tech

Smt. Geetanjali R - MCA



R&D LAB



MCA LAB - 3



MCA LAB

MASTERS OF BUSINESS ADMINISTRATION (MBA)



Dr. P V Raveendra
Professor & Head (Incharge)

The Department of Management Studies (MBA Programme) was established in 1998 with an objective of creating high quality professional managers to meet the emerging and ever growing demands and challenges of the industry in an ethical and responsible manner. Over the years, the Department has built a strong reputation for its program. The graduating students of the Department are placed in reputed institutions and leading corporations. The Department offers a 2 year MBA degree course of Visvesvaraya Technological University (VTU). The Department is a recognized Research Centre of VTU. At present there are 12 Faculty Members of whom 11 are Doctorates and 23 Research Scholars are pursuing their Ph.D under their guidance. Recognizing the quality of management education imparted by our Institution, the Department was the first in Bangalore Region to receive academic autonomy from VTU in the year 2007.

The Faculty members of the Department have rich academic and industry experience. Many of our faculty members have authored books and published papers in leading journals and they have participated in national and international conferences and seminars.

The Department has well qualified industry professionals as visiting faculty who share their professional upgradations with the students on a continuing basis. The Department believes in enhancing the expertise of the faculty by deputing them to various workshops and faculty development programs. The Programme is accredited by the National Board of Accreditation, New Delhi for a period of 3 years

ACTIVITIES

PAPERS PRESENTED

National and International Journals and Conferences – 170

FUNDED PROJECTS

- Research - 07
- Sponsored Seminars - 02
- Students Publications (National & International level) : 60

FACULTY

PROFESSOR & HOD (Incharge)

Dr. P V Raveendra – B.E, M.B.A, Ph.D

PROFESSOR

Dr. Y.M. Satish - M.B.A, Ph.D.

ASSOCIATE PROFESSORS

Dr. M. Rizwana - M.B.A, Ph.D

Dr. A. Mahalakshmi - M.B.A, Ph.D

Dr. T. Mohanasundaram - M.B.A, Ph.D

Dr. Deepak R - M.B.A, Ph.D

ASSISTANT PROFESSORS

Dr. G. Vijaya Kumar- M.B.A, Ph.D

Dr. Pallavi .B- M.B.A, Ph.D

Mrs. S.B. Rashmi- M.B.A, (Ph.D)

Dr. Arun Kumar .D.C- M.B.A, Ph.D

Dr. Adarsha .K- M.B.A Ph.D

Dr. Vaijanath Babshetti – M.B.A, Ph.D



PLACEMENT & TRAINING



Dr. Savitha Rani.M
Placement & Training Officer

“WE CREAT A RECORD AND BREAK OUR RECORD”

MSRIT is always the preferred academic institutes for a large number of organizations for recruiting our graduates. The biggest names in the corporate world visit the campus on a regular basis, with enviable recruitment offers. Most of the top companies across the nation, visit us for Campus Recruitment. There is tremendous competition amongst companies to visit the Campus to recruit the best talent of the institution. MSRIT has been the traditional recruitment destination for many organizations. The institution stands as the most preferred destination for students who aspire to grow, learn and reach beyond the ordinary, reason why some of the world's finest companies visit us and discover the best minds available.

For the batch 2022

- **1329** offers were made in season Placement.
- Highest CTC was Rs. 31,37,930 LPA, by Apple India.
- International offer by Sobha Contraction, Sobha Hartland, Dubai with CTC AED 5,000.
- Highest stipend during internship Rs. 90,000/- month by Walmart.

For the batch 2021

- **1217** offers were made in season Placement.
- Highest CTC was Rs. 30 LPA by MuSigma.
- International offer Amazon, Poland.
- Highest stipend during internship Rs. 87,000/- month by Morgan Stanley.

Recruiters Speak

It has always been a refreshing and pleasant experience visiting MSRIT, Bangalore, for campus placements. We are impressed by the enthusiasm and intellect displayed by the students. We are delighted that we have been visiting MSRIT, Bangalore regularly.

— **Mr. Satyanarayana, Director, Open Stream**

MSRIT, Bangalore is one of the preferred Engineering Institutes for TDPS, for recruiting campus graduates. Many of the MSRIT graduates are employees of greater TDPS and have contributed significantly for TDPS success.

The fact still remains, the name MSRIT stands for Placements!!

— **Mr. P.G. Manjunath, Head-HR, TDPS**

Real talent is available at MSRIT

— **Mr. Radhakrishnan, Managing Director, Walmart**

It is always a great experience to hire students from RIT.

— **Dr Suniel Jaljit, VP HR, Titan**

Amazon International Offer - 2021 Batch



Name : Abhay Desalli
USN : 1MS171S003
Location : Poland



Campus Recruitment in process

ಬೆಂಗಳೂರಿನಲ್ಲಿ ಸಂಭವಿಸಿದ ಸಫಲತೆ

ಕಾಂಪಸ್‌ನಲ್ಲಿ ಸಂಭವಿಸಿದ ಸಫಲತೆ

ಬೆಂಗಳೂರಿನಲ್ಲಿ 21 ವಯಸ್ಸಿನ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ 50 ಲಕ್ಷ ವೇತನ

ಕಾಂಪಸ್‌ನಲ್ಲಿ Success

ಬೆಂಗಳೂರಿನ 21 ವಯಸ್ಸಿನ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ 50 ಲಕ್ಷ ವೇತನ

ಬೆಂಗಳೂರಿನಲ್ಲಿ ಸಂಭವಿಸಿದ ಸಫಲತೆ

ಬೆಂಗಳೂರಿನಲ್ಲಿ ಸಂಭವಿಸಿದ ಸಫಲತೆ

ಬೆಂಗಳೂರಿನಲ್ಲಿ ಸಂಭವಿಸಿದ ಸಫಲತೆ

For 2020 batch, a total of 213 companies visited and 947 offers were made. Highest CTC for 2020 batch Rs. 43.17 LPA
 For 2021 batch, a total of 216 companies visited and 1217 offers were made. Highest CTC for 2021 batch Rs. 30 LPA
 For 2022 batch, a total 242 companies visited and 1698 offers were made. Highest CTC for 2022 batch Rs. 31.37 LPA

CO CURRICULAR ACTIVITIES



Dr. Kiran Kumar H K
Director of Physical Education

Students of RIT participate actively in a variety of sports and a dedicated department led by Dr. H.K. Kiran Kumar, Director of Physical Education, manages this activity. The Department has the best of infrastructure and facilities with quality equipment for sports including cricket, basketball, football, badminton etc. The campus has a dedicated basketball and Tennis court and a gym with high-tech equipment that enables students to keep in shape.

Annually, RIT hosts various sports events - M.S. Ramaiah Memorial Cricket Tournament, M.S. Ramaiah Memorial Basket ball (M&W) Tournament, VTU Inter-college Tournaments, Inter-Branch matches and an Annual Athletic Meet for boys and girls. These tournaments attract participation from various other engineering colleges across Karnataka and have a high level of recognition. RIT's students have represented the state and India in several sports activities, winning many individual/team events.



PRATYANSHU TOMAR

VIII SEMESTER MECHANICAL ENGINEERING
Represented the Indian Sr. Basketball Team as player in FIBA Asia Cup 2021, Qualifying Tournament held at Jeddah, Saudi Arabia from 20th to 22nd August 2021 and also represented Indian Sr. Basketball Team in Fiba Asia Cup 2022 held at Jakarta, Indonesia from 12th to 24th July.



TABLE TENNIS [MEN]

WINNERS - VTU Bangalore Central Division Badminton Tournament held at HKBKCE, Bangalore on 3rd Nov.2022
RUNNERS - VTU State Level Badminton Tournament held at VVCE, Mysore on 5th & 6th Nov.2022



BADMINTON [MEN]

WINNERS - VTU Bangalore Central Division Badminton Tournament held at BMSCE, Bangalore on 6th Nov.2022
WINNERS - VTU State Level Badminton Tournament held at BMSCE, Bangalore on 8th & 9th Nov.2022



HOCKEY [MEN]

WINNERS - VTU Bangalore Central Division Badminton Tournament held at CMRIT, Bangalore on 10th & 11th Nov.2022



FOOTBALL [MEN]

WINNERS - VTU Bangalore Central Division Football Tournament held at MSRIT, Bangalore on 25th & 26th Nov.2022

RUNNERS - VTU State Level Football Tournament held at GNDEC, Bidar on 3rd to 5th Dec.2022



BASKETBALL [MEN]

WINNERS - VTU Bangalore Central Division BASKETBALL Tournament held at NHCE, Bangalore on 29th & 30th Nov.2022

WINNERS - VTU STATE LEVEL BASKETBALL Tournament held at NMIT, Bangalore on 2nd & 3rd Dec.2022

WINNERS - BMSCE - STATE LEVEL BASKETBALL Tournament held on 28th & 29th Dec.2022



Mr. I Ganashyama Prabhu of VII Semester EIE took part in 36th National Games Competitions held at Ahmedabad, Gujarat from 26th Sept. to 3rd Oct. 2022 and participated in Roller Skating Event and Won Bronze Medal 1000 Mtrs Relay Event

IN HOUSE ACTIVITIES

Organized VTU Bangalore Central Division Football (Men) Tournament on 25th & 26th Nov.22 in M S Ramaiah Ground



EXTRA-CULTURAL ACTIVITIES

At MSRIT we believe in the holistic development of students in a way that they evolve into full-fledged and confident professionals by the time they graduate. This can be made possible by encouraging them to engage in various extra-curricular activities such as music, theatre, literary, visual and fine arts, apart from sports, NSS and other similar pursuits.

Extra-curricular activities are not just about entertainment, they help molding the personality of the students in the following ways:

- Enhancing soft skills such as communication skills, etiquette and confidence levels.
- Helping them in the areas of time management, emotion management, success (and failure) management, crisis management and more importantly people management.
- While good grades equip students to get their first jobs, extra-curricular activities equip students with skills for their whole lives.
- They help inculcating in students, values such as empathy, broad-mindedness, team-spirit, self-control, ethics, acceptance of pluralities in society, corporate social responsibility, and so on.

MSRIT is the only college to have a separate department for cultural activities, known as the Department of Extra-Curricular Activities (DECA). There are 21 Student-driven Clubs active on campus under the guidance and direction of DECA. Apart from Cultural Activities there are Clubs which involve themselves in Finance, Japanese culture, Gaming, Video-editing, Photography, etc. There are hosts of activities throughout the year such as Ice-Breaker (introduction of all Clubs to freshers), All India level Quiz and Debate Competitions, Shoutout (an exclusive intra-mural Theatre competitions), Kannada Rajyotsava, TEDx MSRIT, UDBHAV (inter-collegiate Cultural Festival), etc. Please join and discover yourselves!



NATIONAL SERVICE SCHEME

The National Service Scheme (NSS) is a Government of India initiative launched in 1969 to promote social consciousness, responsibility, discipline and dignity of labour among college students, encouraging them to utilize their leisure time in various social service activities.

The NSS unit was started at MSRIT in 1999 and since then, several programs have been initiated with about 450 students as volunteers. Students participate in a variety of activities including conservation of the environment, water, sanitation, health issues, family welfare and nutrition, AIDS awareness, anti-drugs drive and so on. Government Primary/ High schools and a few slums were selected for community service and educational programmes. Students attending the camp are issued a certificate and also eligible for grace marks in seeking admission to higher classes. NSS Volunteers conducting Blood donation camp every year in the Memory of our late founder chairman Dr. M S Ramaiah.

NCC Day

Blood Donation
Camp



Orphanage
Visits



Dr. Puttabore Gowda
NSS Officer, MSRIT
honored as Best NSS Officer
by Governor, Karnataka State

SLUM Visit

BEST PRACTICES



Dr. Monica R Mundada

Chief Proctor - RIT

Professor, Department of Computer Science & Engineering

PROCTORIAL SYSTEM

The Proctorial Process is introduced with an objective of providing supportive care, guidance and mentoring to students to help them with their academic progress while at the campus. Every teaching department implements this process through its faculty and the faculty members are called proctors.

The proctors closely monitor the student's performance and interact with students and their parents/guardians. This system would help the students to complete their studies comfortably and successfully.

STUDENT INFORMATION SYSTEM

Ramaiah Institute of Technology has in place a web enabled Student Information System (SIS) <http://parents.msrit.edu> that offers students and their parents/guardians up-to-date information about attendance status, marks scored, time table and other information about the student. A Login ID and password is provided to help them access this information from anywhere across the globe.



Progress Reports of each student are sent to his/her parents/guardians furnishing the details of Attendance & CIE marks. These reports are sent twice in a semester (at the end of 45 days and 90 days).

SMS are also sent to parents/guardians about Attendance and CIE marks twice in a semester.

1. Every Friday the students interact with their respective proctors between 02:40 pm - 04:30 pm to discuss their academic progress.
2. Parents/guardians are welcome to schedule a meeting with the proctors to discuss any concern with respect to their wards.
3. Counseling facility is available to the student. Students can avail this facility by registering themselves at the Chief Proctor's office.

Counseling facility is open to the students every Friday between 02:00 PM – 04:30 PM

The Chief Proctor office is situated in Apex Block, level 2 and is open for all students and parents for interactions.



Student Counseling

INDUSTRY - INSTITUTE

BRIDGING THE GAP BETWEEN INDUSTRY AND ACADEMIA

Professional education today is all about working in synergy with the industry to ensure a maximum fit with their requirements and expectations and MSRIT has been working towards achieving that objective. The college has established close working relationships with some of the world's leading names in technology.

The Intel Centre of Excellence has been established at MSRIT with the purpose of training in multi-core architectures and parallel programming. The objective of this centre is to provide training to faculty members from various colleges in South India. Experts from Intel and leading professors from IISc are involved in the training activity. The centre is equipped with the best of infrastructure and several students carrying out projects in high performance computing and allied areas use the centre.

Adobe Systems has set up the MSRIT Adobe RIA Lab to cater to the needs of academicians and industry professionals in web-related applications. The lab imparts knowledge to faculty from various engineering colleges in the streams of CS, IS, and IT on Web 2.0 and Rich Internet Applications (RIA), and enable faculty to guide students on RIA.

EMC2 and MSRIT have entered into a relationship to create the EMC2 Knowledge Centre. EMC2 provides MSRIT's ISE Department, access to relevant materials, demos, white papers, videos and books on Information Storage Management and 'Storage Area Networks'. The Department offers Information Storage and Management as one of the electives for the 6th Semester autonomous B.E. degree program.

IBM has established a Centre of Excellence at the MSRIT campus to provide training to faculty/ students and placement opportunities to students.

Schneider Electric and MSRIT have set up a Centre of Excellence in the areas of Industrial Process Automation and Controls. Industry oriented courses are offered in consultation with Schneider Electric.

The Department of Telecommunication, MSRIT has entered into an MOU with Honeywell Technologies Solutions Lab. Private Ltd, Bangalore to set up a state-of-the-art laboratory for Condition Monitoring and Testing the Conveyor Belt & Idler system (Test-rig) using embedded computing and wireless sensor networks for remote monitoring - an effective test-platform for students in academic projects, interns, placements and also Faculty Research, Publications, and developments in the areas of communication, computer, electrical, civil and mechanical engineering.



ALUMNI ASSOCIATION

MSRIT's students have always been sought after by the best names in the industry and occupy responsible positions in various organizations across the globe. These students continue to have a strong affinity for the institution long after they graduate and move on, a bond that has resulted in the creation of a vibrant and growing alumni association. This group participates actively interacting with present students, offering scholarships to deserving students and helping in entrepreneurial efforts, campus placements and guest lectures.

Shri. Tallam Venkatesh, renowned industrialist, and Treasurer, Karnataka State Cricket Association is the current President of the MSRIT Alumni Association whose activities include but are not confined to:

► Scholarship Schemes

- Merit and Means Scholarship Program (MMS)
- Shri Krishna P. Godasi Scholarship - by Maganti Foundation
- MSRIT Alumni Association Book Bank
- Project Funding
- Best Project Awards
- Alumni Mentoring Scheme
- Awarding Top Rankers
- Bus Pass Scheme
- Research Fellowship Grant
- 3-D Printing Facility
- Distinguished Alumni Lectures
- Honouring Distinguished Alumni
- Mid day Meals Programs

Distinguished MSRIT Alumni



Dr. S C Sharma
Director, NAAC



Sri Sajjan Jindal
Managing Director,
JSW Steel Works Limited, Bellari



Sri Mahesh Madhavan
CEO Designate,
Bacardi



Dr. Thomas Oommen
Associate Professor,
Michigan Technology University



Dr. Karthik Sridharan
Asst. Professor,
Cornell University



Dr. Sundararajan Madihally
Associate Professor,
Oklahoma State University



Mr. Girish R. Tanti
Director,
Suzlon Energy Limited



Dr. Vidyashankar S
Vice Chancellor, Visvesvaraya
Technological University

ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)

Entrepreneurship Development Cell (EDC) was established in July 2003.

EDC is a spring board for the RIT students dedicated to development of multidimensional skills. Creating a forum where we can bring Interdisciplinary students to bring the heterogeneous culture together. It invites various eminent entrepreneurs to deliver lectures to educate students about the joys and hardships of entrepreneurship. Guest Lectures, Workshops, Case Study, Group Discussions are conducted throughout the year to involve students in activities that are essential to be an entrepreneur. E-Cell also actively incubates start-up ideas by creating required eco system to be an entrepreneur. Entrepreneurship Development Cell basically aims at recognizing and developing soft skills of individuals. To be a successful entrepreneur it is important for an individual to be a leader, a team player and a risk taker. He should also be an excellent judge of opportunities and recognize the potential a market can offer. A good entrepreneur has to analyse the market, plan and implement his ideas for a better society. Keeping these objectives in mind E-Cell functions to guide the budding Entrepreneurs in their endeavour.

Facilities offered by EDC at MSRIT for Innovation and Incubation.

- ▶ Incubation space of 5000 sq ft for startups.
- ▶ Annual budget of 20.0 lacs for seed funding of new ideas and innovation.
- ▶ Exposure to all Modern Laboratories and makerspace facilities.
- ▶ Provision to access 100mbps internet and computer lab facilities.
- ▶ Free mentorship from senior professors of MSRIT.
- ▶ Connecting to the Industry diaspora in the silicon city of Bangalore
- ▶ Linking startups to the highly functional Alumni of MSRIT for Financial, Technical and Marketing Support.
- ▶ Registering and Exposing startups to the annual pradarshana/Investors meet at MSRIT

EDC is a platform to organize entrepreneurial Conclaves/ Ideathon / Hackathon / Competitions, to generate new and innovative ideas and to encourage start-ups and its ecosystem.



ECO DRIVE - A technology driven startup which aims to provide modular electric bicycle conversion kits to improve the lifestyle.



STARYA MOBILITY - Produces electric two-wheelers to reduce pollution and help city dwellers commute via smarter and healthier ways.



H.O.P.E or Hitech OMR Pen for Exam - is a product that caters to students writing entrance exams. The pens have dual functionality that it can be used a normal pen and that it has a stamp end that helps colour an OMR bubble in one go.



PRADARSHANA - JULY 2022 - All the projects displayed are having high utility value which can help the society in one or the other way. There were around 420 exhibits from different departments.

RAMAIAH EVOLUTE

Ramaiah Evolute is the product of a vision to create and nurture innovative unmatched entrepreneurship skills in the country. To make this vision tangible, the Ramaiah Group of Institutions decided to set up a novel innovative start-up infrastructure centre at its University campus, aided by a strong mentoring team. The objective was to create a unique holistic environment to incubate start-ups where basic to intelligent infrastructure and essential services along with industry focused mentoring and funding is available.

Ramaiah Evolute will incidentally be the first cross-disciplinary start-up ecosystem in the country, leveraging successfully on the access to 11 diverse academic disciplines in the campus. Setting up this ecosystem in a multi-disciplinary campus also precludes the conventional hurdles faced in innovation such as lack of holistic domain and application expertise and understanding of industry from a business, technology and standards perspective.

Bengaluru, November 9, 2022: The Ramaiah Group of Institutions, as part of its Ramaiah Evolute program, gave away the Star Start-up Awards to 18 selected start-ups that were picked for recognition after a gruelling process of selection from an extensive number of applicants across the country. The Star Start-up Award is in line with the Group's vision of recognising and encouraging innovation and coming up with products and processes using next generation technology while giving a fillip to emerging entrepreneurs.

The 18 Star Start-ups were recognised for their incredible innovative spirit and techniques, the clean green technology solutions offered, the sustainable features of the products and processes developed and the diverse domains that they related to where some of them entered into segments that were direly needed but had so far seen negligible or nil ventures. Also, there was showcasing of the selected startups from Evolute Cohorts 1 & 2 to an elite panel of investors.

The 18 selected start-ups received the award certificates of recognition and citations from Mr M R Jayaram. The Star Start-up Award is part of the initiative of the Ramaiah Group to recognise the best cross disciplinary start-ups using high technology and high level of innovation where the end product or process has a significant impact on society.



Star Start up Award on Wednesday 9th November 2022

DISC 4 Challenge from iDEX India



The team from M S Ramaiah Institute of Technology, Bangalore; Dr.Swetha Amit, Dr. Viswanath Talasila, Mr. P M Premnath, Department of Electronics & Telecommunication and Bangalore based Startup company Avgarde Systems jointly defended a challenge at the 4th edition of Defence India Startup Challenge (DISC) on "Reduction of RCS (Radar Cross Section) for Naval warships" launched by iDEX (Innovations for Defence Excellence) India and have won the challenge. They were felicitated by the Honourable Raksha Mantri, Mr Rajnath Singh, during the StartUp Manthan event at Aero India in Bangalore on 5th February 2021.

TEXAS INSTRUMENTS INNOVATION AWARD



Inauguration of Boeing Research and Technology Lab in M. S. Ramaiah Institute of Technology, Department of Electronics and Communication, VI semester students Anoop Kulkarni, Karthikeshwar Varma and Rakshit Ramesh have won the Texas Instruments Innovation Challenge Chairman's Award for their innovative idea to reduce fatalities due to car accidents. The device uses a radar technology to detect and assess distances so as to avoid accidents due to vehicle collision. The project was mentored by Prof. M. S. Srinivas. The award is worth \$10,000 and this year about 11,000 engineering students from across India participated in this contest with the aim to solve real world problems and create lasting social impact. Our former President and an inspiring scientist Dr. A. P. J. Abdul Kalam presented the awards and speaking on the occasion, he highlighted his vision of innovation such as the one demonstrated by our students as a key to national development.h Institute of Technology Premises

TEAM STIER RACING- Formula Green competition organized by ISNEE Motorsports Private Limited at Aruani grid, Bangalore-August-2022



This year 2022 witnessed the 7th Formula Green Competition, 2022, organized by the Indian Society of New Era Engineers and held at Aruani grid, Bangalore from 22nd to 25th August 2022, Team Stier Racing of Ramaiah Institute of Technology, Bangalore, were placed 1st in Best Design winners Award, 1st in Business Plan winners Award. And Enthusiastic captain token of gratitude. This competition saw twenty teams from all over the country vying for the top honours while only seven teams made the cut to the second round. And among them, Team Stier Racing from RIT romped home in style. It has to be noted here that Team Stier Racing were placed champions in the 2020 edition and the students worked hard to keep the consistency this year.

TEAM VELOCITA RACING – Formula Bharat January- 2022



After a year of hard work, continuously improving on the design, making leaps and jumps in manufacturing, team Velocita Racing has made it. We are proud to present VRF2. This year, we have participated in Formula Bharat 2022, which was held in Kari Motor Speedway during 20th Jan -25th Jan 2022. The event was organized by Curiosum tech Pvt Ltd governed by FSAE rules and regulations. Team was Placed 9th Overall (Combustion Class). This is out of 85 competing team participating from across the country.

TEAM QUATLAS -SAE Aero Design West held at USA-April 2022



Team Quatlas is the official Aero modelling team of Ramaiah Institute of Technology, Bangalore. This Team participates in the SAE Aero-Design Competition held every year in USA. Our team continues to grow and learn while showing a positive trend since 2015. The team comprises of passionate and hard-working students from multiple disciplines of engineering. Our cohesive team structure facilitates hands-on learning and inter-departmental coordination. Team Quatlas was ranked Crowned Overall 9th Place Internationally, 1st among Teams from Asia and 2nd rank in Technical Design Report world amongst 43 international teams from countries such as Poland, Canada, Mexico, China etc., in the last year's competition.

TEAM VOLANTE- Mega ATV held at Pilon held at Goa- May 2022



Team Volante has been taking part in Mega ATV competition organized by Autosports India in Pilon Goa,. The team placed 1st Place in Drag Race and crowned Overall Runner-up. The team also taken part in numerous Electric oriented competitions namely National Kart Racing Championship (NKRC), Indian Solar Vehicle Championship (ISVC), Bharath Formula Karting powered by CADD Technologies (e-BFKCT). Team Won the 2nd prize in the Mud Racing Round of the Solar Electric at Pithampur.

TEAM EDHITHA-Unmanned Aerial Vehicle System (UAVs)- held at USA - June 2022



Team Edhitha, Group of multidisciplinary undergraduate students of Ramaiah Institute of Technology were judged and awarded the first Indian team to win the prestigious Student Unmanned Aerial System (SUAS) competition, in Maryland, USA, in 2015. This year 2022, Team Editha has been taking part in SUAS competition organized by Seafarer Chapter., held at USA between 15th -18th June 2022. The team Editha from RIT won Dawn Jaeger Tenacity Award.

TEAM CONCEPT 4 - DIY Astrover Challenge



Team Concept 4 is a dedicated group of multidisciplinary students from RIT who aim to develop a no-power-consumption vehicle i.e. Human Powered Rover. In 2021, The team is planning to take part in Human Exploration Rover Challenge organized by NASA which has been conducting this competition for more than 20 years. This Competition will be held at NASA Rocket and Space Research Center, Huntsville, USA for University and Higher school students during summer 2021.

TEAM ALBATROSS-Unmanned Aerial System



Team Albatross is an interdisciplinary team started by students of Department of Mechanical engineering. The team has participated in prestigious competitions like Boeing Aeromodelling Competition held at IIT Techfest. Team Albatross is currently preparing to participate in SAE Aero design challenge 2021.

E-Learning Centre



World class E-Learning Studio is established at Ramaiah Institute of Technology for recording and live streaming of online classes simultaneously. The Studio has totally 2 Interactive panels, 1 Chroma screen, 3 high end PTZ cameras to capture videos and 2 video monitors that allows the resource person to see themselves while recording lectures. This space also has a podium that offers a digital tablet along with a digital stylus for writing on presentation that is displayed on the Chroma screen. The studio has a PCR room - programme and technical staff will watch a series of preview monitors and the output of the vision mixing desk, which will appear on the 'Transmission' monitor for preparing the final studio output. Desk 'talkback microphones' and loudspeakers are available to pass and receive instruction and guidance between the studio and PCR staff. The studio has a Green Room.

Centre of Excellence for Imaging Technologies

The Centre of Excellence for Imaging Technologies (CIT) M S Ramaiah Institute of Technology was inaugurated on 13th March 2019 by Sri. M R Seetharam, Hon'ble Vice Chairman, GEF and attended by delegates from IGCAR.

CIT aims at developing competencies in the field of Imaging Sciences and Technologies in collaboration with IGCAR, Kalpakkam. The Centre is committed to leveraging and creating new technologies, cost-effective solutions and methods, to address the challenges faced by the country.



Centre for Advanced Materials Technology



A Centre for Advanced Materials Technology is established in collaboration with BOEING. This will help in interdisciplinary study and synthesis of advanced materials and polymer composites. The facility has been created with analytical facilities such as Non Destructive Ultrasound Setup, TGA/DSC, Impedance Analyzer, UTM, FTIR, XRD, etc.

Schneider Centre of Excellence

Schneider Facility has been established by MSRIT. This facility is being utilized across Departments of Circuit Branches and Mechanical Engineering. The modules include, Home and Building Installation, Home and Building Application, Home Automation and Building Management system.



Boeing Research and Technology Centre at MSRIT



The Boeing Research and Technology Lab was inaugurated by Dr. Greg Hyslop, Chief Technical Officer of Boeing, USA at MSRIT in January 2017. The research facility has Instrumentation lab, Production system lab, Material lab, NDT lab and Tear down lab. Boeing research facility provides Internships to student, collaborative research for faculty, projects for students & faculty and joint reserach publications.

Centre for Antennas and Radio Frequency Systems - (CARFS)

The Centre for Antennas and Radio Frequency systems (CARFS) at M S Ramaiah Institute of Technology Bangalore was inaugurated on 24th March 2021 by Sri. M R Seetharam, Vice-Chairman, (GEF), Director, RIT. The Centre includes design, simulation, fabrication and testing of Antenna and RF devices to indigenously design and develop wireless systems (including 5G systems). The Centre has state of the art Vector Network Analyzer from Rohde & Schwarz operating from 100KHz to 40GHz and Anechoic Chamber operating from 700MHz to 40GHz



Centre for Cyber Physical Systems



This Centre of Excellence is envisaged to conduct research into the design and development of advanced systems interacting with each other directly and through the Internet. It is being set up in collaboration with NVIDIA Corporation & Indian Institute of Science, Bangalore. The Centre has a major objective:

- To initiate collaborative research among different departments
- To set up high-end AI capabilities for use in research and consultancy activities
- Foster research partnership with Industries and research organizations, leading to collaborative research and consultancy service.

Centre for Bio & Energy Materials Innovation

The Centre for Bio and Energy Materials Innovation has been established through research funding from DST, VGST, VTU, AICTE with a funding of 150 lakh. This interdisciplinary research center works on cutting edge research at the interface of physical, biological, chemical and engineering sciences in collaboration with external partners from IISc, IITM, NAL, MSRMC etc. The theme of the centre is to design functional materials for biomedical, environmental and energy applications. Some of the key focus areas include antibacterial nanomaterials for medical implants, nanomaterials for bio-corrosion inhibition, nanomaterials for wound healing, nanotoxicology, electrochemical sensors, novel high performance energy storage systems etc. The centre offers hands-on training workshops, short term courses and provides training and internship to UG/PG students.





MSRIT conducted the fourth International Conference on Recent Advances in Engineering Sciences (ICRAES-2022) from 13th to 14th October, 2022. The two-day international conference was jointly organized by Department of Mechanical Engineering, Civil Engineering, Chemical Engineering, Biotechnology and Industrial Engineering & Management with focus on New Generation Materials.



MSRIT conducted the International Conference on Applied Research in Engineering Sciences (ICARES-2022) from 24th to 25th November, 2022. The two-day international conference was jointly organized by Department of Physics, Chemistry, Mathematics & Humanities. Padmabhushan Prof. P Balaram, Chief Guest inaugurated the Conference and motivated the participants.



4th International Conference on Circuits, Control, Communication and Computing I4C-2022, was organized by all the Circuits departments of RIT from 21st to 23rd December 2022. The Conference was technically co-sponsored by IEEE Bangalore Section



MSRIT in association with Boeing India organized 3 days ASME- AM 3D AERO 2022 Conference from 7th to 9th December 2022. Hon'ble Vice Chairman, Sri. M R Seetharam, Dr. Melissa Orme, VP Boeing Additive Manufacturing, Mr. Thomas Costabile, CEO & ED ASME, Dr Om Prakash, AM 3D Aero 2022 Chair, Dr V K Aatre, ex DG DRDO & Scientific Advisor to Defence Minister, Ahmed Elsherbini, Mr Steve Chisholm, VP Boeing Commercial Aircraft, Michael Johnson, Dr. NVR Naidu, Principal, RIT inaugurated the Conference.



On the occasion of the birth centenary of our Founder Dr. M S Ramaiah, as well as the Diamond Jubilee Celebrations of Ramaiah Institute of Technology, we have conducted CentuRITon, Ramaiah Institute of Technology's first ever National Level Hackathon organized from 25th-27th Nov, 2022. This hackathon is powered by Major League Hacking (MLH) and Devfolio. Event is technically supported by Unisys, Dish Network Technologies, IBM, NfThing and IEEE-Computer society Bangalore chapter.





Dr. M S Ramaiah Memorial Lecture, Delivered by Bharat Ratna Dr. C N R Rao FRS on 17th May 2017



Presentation by Maj. Gen. Charles Frank Bolden, Jr., Ex-administrator, NASA on "Engineering Challenges looking to future Space Exploration and Travel" at MSRIT on 7th March 2019

PERFORMANCE RECOGNITION

The management has always identified and rewarded individual excellence be it in studies, sports or cultural activities. MSRIT's students have displayed all round excellence and the performance of the students in the examinations has been way above average. Students are awarded the 'Founder-Chairman's Award' for Excellence in Academics. The 'Outstanding Graduation Student of MSRIT Award' is presented to best student taking into consideration the all round performance - academics, sports, cultural and other extra-curricular activities. There is also a department level 'Best Achiever Award' presented annually to deserving students.



Graduation Day - 2022

DIAMOND JUBILEE INAUGURATION



The institute is celebrating 60 years (Diamond Jubilee) and the 100th Birth Anniversary of our Founder Chairman Late. Dr. M S Ramaiah this year. A Spectacular and a grand Inaugural Function for Diamond Jubilee Celebrations was held on the 16th October 2022.

The Hon'ble Minister of Parliamentary Affairs, Coal & Mines GoI inaugurated the celebrations. He appreciated that the founder Chairman and GEF have contributed immensely to the society by establishing many outstanding educational institutions which are engaged in imparting quality technical education to millions of students.

Dr. Ashwath Narayan C N, Hon'ble Minister of Higher Education, GoK released the documentary and said the sustained growth of society is possible only through quality education. Ramaiah institutions have provided good quality technical education to many students across the globe. He also said that the students need to utilize the facilities & equip themselves with employable skills for the future challenges.





His excellency Hon'ble Governor of Karnataka participated virtually and delivered the presidential address. In his address he highlighted the need of sincere efforts to nurture the talents of today's youth. He congratulated & wished the institution for its future endeavors.

Hon'ble Chief Minister of Karnataka Sri. Basavaraj S Bommai in a video message hoped that the tradition of giving back to the society at M S Ramaiah continues while Dharmendra Pradhan, Union Minister for Education, in a note said, "It is imperative that our centers of higher learning lay great focus on high-end innovation & research in science & technology".

The function was attended by distinguished members from premier educational institutions, industry, alumni, and heads of sister institutions. Hon'ble Chairman, Vice Chairman, Secretary, Dr. V K Aatre, Dr. H P Khincha & Dr. J N Reddy participated in the function.



VARIOUS INSTITUTIONS / CENTRES UNDER GOKULA EDUCATION FOUNDATION (GEF)

Ramaiah Institute of Technology

Ramaiah High School

Ramaiah Medical College

Ramaiah Medical College Hospital

Ramaiah Institute of Nursing Education & Research

Ramaiah College of Arts, Science & Commerce

Ramaiah Composite Pre-University College

Ramaiah Vidyaniketan

Ramaiah Institute of Management

Ramaiah College of Law

Ramaiah Advanced Testing Laboratory

Ramaiah Institute of Physical Medicine & Rehabilitation (Physiotherapy)

Ramaiah Polytechnic

Ramaiah Memorial Hospital

Ramaiah College of Education

Ramaiah International Medical School

Ramaiah Clinical Research Centre

Ramaiah Harsha Hospital

Ramaiah University of Applied Sciences

Ramaiah INDIC Speciality Ayurveda

Ramaiah Public Policy Centre

Ramaiah Innovation Centre for Healthcare Technologies

Ramaiah Leena Hospital

Ramaiah Neha Prakash Hospital

Ramaiah Clinic

Ramaiah Sunshine Ayurveda Centre, Penang, Malaysia

Ramaiah Officers IAS Academy

Ramaiah Quality Assurance Cell

Ramaiah International Centre for Public Health Innovation



Accredited by
NAAC with Grade

A⁺



21 Programs
Accredited



STUDY IN INDIA
Member of Study India



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