KGiSL INSTITUTE OF TECHNOLOGY

KiTE

STATE OF ART INFRASTRUCTURE

KGiSL Institute of Technology [KiTE] was started in the year 2008 by **Padmashri Dr. G. Bakthavathsalam,** MS, FICS, FCCP, FAMS, and FMMC., founder-Chairman of KG Hospital, **Dr Ashok Bakthavathsalam,** chairman of KGiSL Group of Institutions and KG Systems established KGiSL Institute of Technology with a aim to provide industry embedded education and to mold the students for leadership in industry, government, and educational institutions; to advance the knowledge base of the engineering professions; and to influence the future directions of engineering education and practice.

KGiSL Institute of Technology is at the hub of the KGiSL Campus of Sarvanampatty with top-notch employers like **Cognizant, NTT Data, KGiSL, TNQ** and **BOSCH** as neighbors. Here, one will be exposed to cutting-edge developments and have opportunities for networking through professionals working in companies on our campus, excellent teachers and support staff, and guest speakers who are connected to the industry as researchers and consultants.
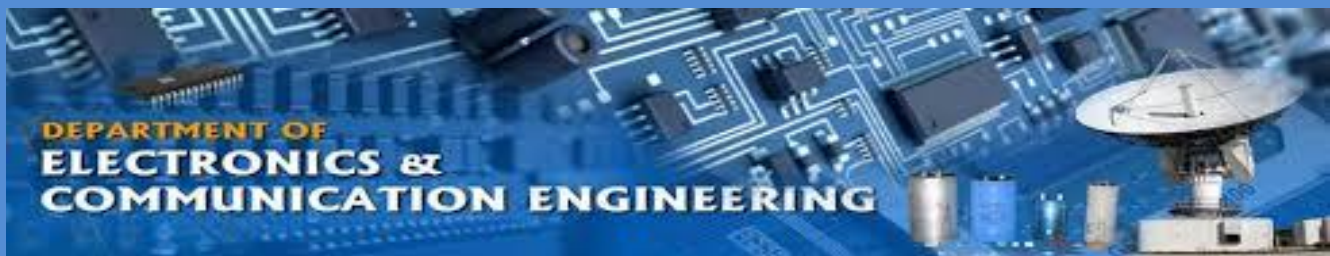
ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was started in the year 2008 and the department offers undergraduate, and postgraduate in Applied Electronics. The total sanctioned student strength is 310 for UG and 18 for PG. Our department has always been interested in developing Engineers by keeping pace with changing technologies, professionalism, creativity research and employability.

The department has well established laboratories, Equipment facilities, with qualified and experienced faculty members to run these programme. The exciting world of electronics needs very good mathematical background and also an analytical mind. The opportunities in electronic field are countless; Application developers, system engineers, integrators and information technology. Infotainment enthralls the common man.

VISION

To promote industry embedded education among ECE (expand) Professionals to face the Global challenges with innovations and Ethical values.

MISSION

M1: To establish a unique learning environment so as to face the challenges in Electronics and Communication

M2: To create platform for innovation, research and adoption of new technology

M3: To inculcate ethical values and enhancing entrepreneurial skills

Program Educational Objectives

PEO1 : To enable graduates to pursue research, or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.

PEO2 : To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.

PEO3 : To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

Program Outcomes

1.Engineering Knowledge

- **Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.**

2.Problem Analysis

- **Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.**

3.Design/Development of Solutions

- **Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.**

4.Conduct Investigations of Complex Problems

- Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5.Modern Tool Usage

- Create, select, and apply appropriate techniques, resources, and modern engineering & IT tools including prediction and modeling to complex engineering activities with understanding of the limitations.

6.The Engineer and Society

- Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and Sustainability

- Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics

- Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9.Individual and Team Work

- Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10.Communication

- Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project Management and Finance

- Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-Long Learning

- Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
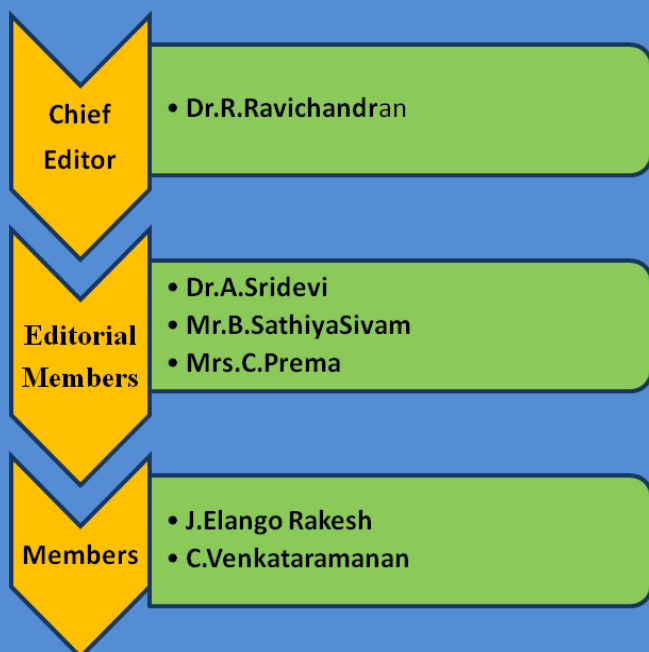
Program Specific Outcomes

PSO1 : To analyze, design and develop solutions by applying foundational concepts of Electronic & Communication Engineering.
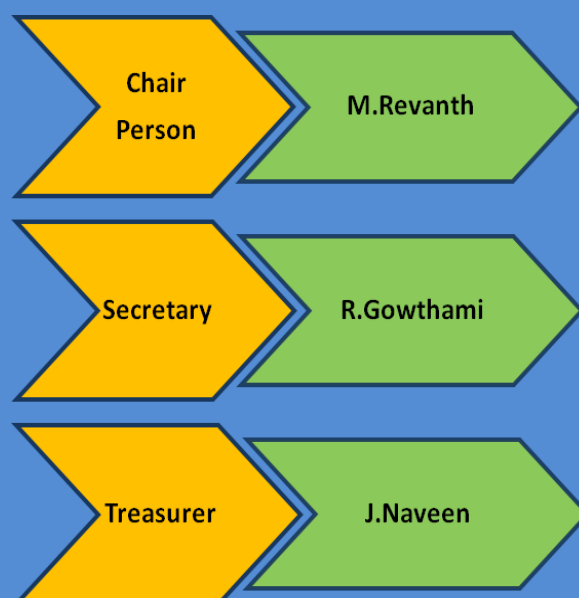
PSO2 : To apply design principles and best practices for developing quality products for scientific and business applications.

PSO3 : To adapt to emerging information and communication technologies (ICT) to innovate ideas andsolutions to existing / novel problems

ADVISORY COMMITTEE

ASSOCIATION MEMBERS

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KG Information Systems Private Limited (KGiSL)
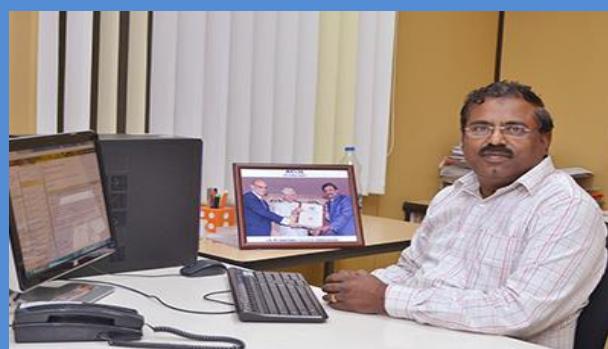
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KGiSL Educational Institutions

Dr. D. Lakshmanan, M.E., PhD.,
Principal
KGiSL Institute of Technology (KiTE)

Dr. A.Sridevi, M.E., Ph.D.,
HoD/ECE
KGiSL Institute of Technology (KiTE)

EVENTS ORGANISED

➢ ECE Association conducts Seminar on **"Embedded Systems"** by Mr. Balajee Seshadri, Technologist, Multicoreware on 06-07-2018.

➢ ECE Association conducts Seminar on **"Raspberry-pi and Arduino"** by Mr.Parthiban & Mr.Ramesh, Sr. Technologist, Caliber Embedded Technologies on 14-07-2018.

➢ ECE Association organizes One day Workshop on **"Embedded Systems"** by Mr.Vamsi Krishna, Viven Embedded Academy on 20-07-18.

➢ ECE Association organizes Two days Workshop on **"PCB Designing and Fabrication"** by Mr.Devarajan, Embedded Technologies on 09-08-2018 & 10-08-2018.

➢ IETE Student's Forum organizes **Technomesse Electronics Era** on 25-07-2018, 10th Year KiTE Celebrations Enteka 2018.

➢ IETE Student's Forum organizes **Technomesse Project Expo** on 25-07-2018, 10th Year KiTE Celebrations Enteka 2018.

FACULTY ACHIEVEMENTS

- Dr.A.Sridevi "DLWUC: Distance and Load Weight Updated Clustering-Based Clock Distribution for SOC Architecture" Technical Gazette 25, 2018.
- Mrs.Rithmi Mitter has been published a paper "FPGA Implementation of Non Linear Equation Based Image Cryptosystem using Different Adders" International Journal of Engineering science and computing (IJESC) in vol 8 Issue-7, July 2018.
- Mrs.T.Bhuvaneswari "Clock Power Mitigation of Multi-Bit Flip-Flops using Merging Technique" International Journal of Research in Electronics (IJRE) ISSN no; 2349-252X vol 4 issue 9, August 2018.
- Mrs.M.Vijay Shree & Mrs.A.Akalya "Voice controlled car enabling system using Arduino" International Journal of Engineering science and Computing Volume:8, Issue:9 September 2018.
- Mrs.A.Akalya & Mrs.M.Vijay Shree "Safety Kit Automatic Braking System Using Arduino" International Research Journal of Engineering and Technology (IRJET), vol 5 Issue 10, OCT 2018.
- R.Jothin, C.Vasanthanayaki "High Performance Static Segment On-Chip Memory for Image Processing Applications", Journal of Electronic Testing Theory and Applications, ISSN 0923-8174, Volume 34, issue 4, pp 389-404, August 2018 (Scopus Indexed) [Listed in Anna University Annexure 1]
- R.Jothin, C.Vasanthanayaki, "High Performance Error Tolerant Adders for Image Processing Applications", IETE Journal of Research, ISSN 0377-2063, DOI: 10.1080/03772063.2018.1535920, October 2018 (Scopus Indexed) [Listed in Anna University Annexure 1]
- R.Jothin, C.Vasanthanayaki, "High Performance Modified Static Segment Approximate Multiplier based on Significance Probability", Journal of Electronic Testing Theory and Applications, ISSN 0923-8174, Vol. 34, No. 5, pp 607-614, October 2018 (Scopus Indexed) [Listed in Anna University Annexure 1].
- P.Sreelatha & M.Ezhilarasi 2018, "Image Texture Based Hybrid Diagnostic Tool for kidney disease classification", Journal of Medical Imaging and Health Informatics, ISSN 2156-7018 (Annex-I) Impact factor 0.549.
- P.Sreelatha & M.Ezhilarasi 2018, "Improved Adaptive Wavelet Thresholding for Effective speckle Noise Reduction in Low contrast Medical Image," Journal of circuits, systems and computers, ISSN 0218-1266. Impact factor 0.549. (Annex-I)

STUDENTS ACHIEVEMENTS

Students Participated in the Technomesse Project Expo.
Mr.Veeramani Batch of II ECE won the First Prize for the best project.

ALUMINI CORNER

My Life at KiTE

Mr.S.Krishna Kumaran,
Cognizant, Chennai
(2012-2016 Batch)

Like each and every student here, I too had few expectations of college before entering in. KiTE was much higher in standards than what I expected. I had a plenty of options to enhance my skills and most important thing at KiTE is the freedom which made me to develop my own character and attitude. I had my own family here at KiTE department. All the professors strived hard to their core knowledge to us. They literally bridged the theoretical understanding and the practical hands on experience. I got to knew about various emerging technologies. The skills developed there helped me to built prototypes on embedded systems.