

KiTE *Knowledge Hunt* News Letter

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DEC'18 - May'19



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.



ELECTRONICS & COMMUNICATION Engineering

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.

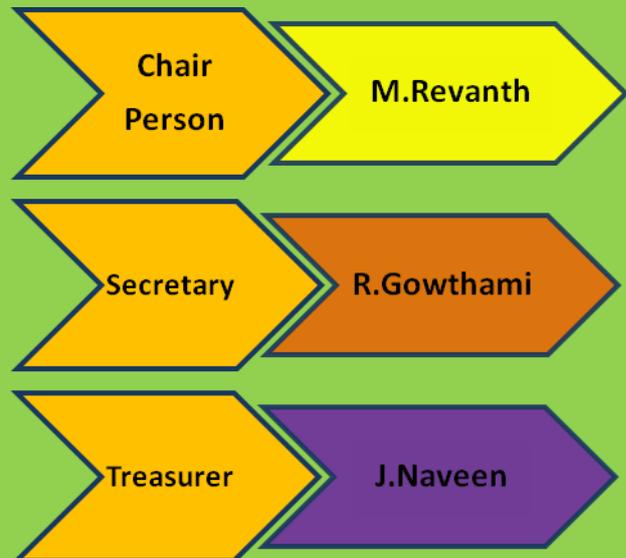
PSO2 : To apply design principles and best practices for developing quality products for scientific and business applications.

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

ADVISORY COMMITTEE



ASSOCIATION MEMBERS



AT THE HELM OF AFFAIRS



Dr. Ashok Bakhavathsalam B.E., MS., PhD.,
Managing Director,
KG Information Systems Private Limited (KGiSL)



Dr. R. Ravichandran B.Sc., M.Sc., M.Phil., Ph.D.,
Secretary and Director,
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

- IETE Students' Forum organizes Seminar on "**Recent trends in Bioinformatics**" on 12.12.2018 by Dr.V.Anantha Narayanan.



- ECE Association conducts Workshop on "**Internet of Things**" by Dr.Sriram Vasudevan, Professor, Amritha University on 25-01-2019.



- IETE Students' Forum organizes **Guest lecture on "Enabling Technology and Industrial use cases of IoT and CPS"** on 21-02-2019.



- ECE Association organizes **Guest Lecture on Probability and Random Process** by Prof.U.Krishnamoorthy, IRTT, Erode.

FACULTY ACHIEVEMENTS

Faculties published the papers in the ICRESET'19 Conference held on 14.03.2019 & 15.03.2019 at KiTE.

Name of Staff	Co-Authors	Title of the Paper	Name of the Journal /Volume	National / International	Impact Factor
A.Vellingiri	K.P.Shanmugapriya	Application Dependent Fault Diagnosis of FPGA for Low Power Reconfigurable Systems	IJTIMES/ Volume-5	International	5.22
Rithmi Mitter	Rajeswari	Analysis of Optimization Methodology for Secure Cryptosystem using Low Power VLSI Design Techniques	IJTIMES/ Volume-5	International	5.22
M.Vijay shree	S.Anitha	Analysis of Biomarkers for earlier Medical Diagnosis using Neural Networks	IJTIMES/ Volume-5	International	5.22
Prema.C	Keerthana.K.	Landmine Detection Robot	IJTIMES/ Volume-5	International	5.22
Vinod K.S	Sriram Ayyapan	Human Face Detection and tracking in color image and video	IJTIMES/ Volume-5	International	5.22
B.Sathiya Sivam	Bhuvaneshwari	Authentication scheme for medicine anti-counterfeiting system using IOT	IJTIMES/ Volume-5	International	5.22
Vishnu Vinayagan.R	Sivaprakash	Minimization of handoff failure by introducing WLAN	IJTIMES/ Volume-5	International	5.22
Dr.N.Kaleeswari		Smart Monitoring of Heart over IOT using Raspberry PI	IJTIMES/ Volume-5	International	5.22
Mr.Sriram Ayyapan	K.S.Vinod	Effective Solar power control for houses	IJTIMES/ Volume-5	International	5.22
Dr.M.Arun		A Survey on Smart Antenna System	IJTIMES/ Volume-5	International	5.22
Dr.R.Arun Chakravarthy		LI-FI Based smart shopping	IJTIMES/ Volume-5	International	5.22

STUDENT ACHIEVEMENTS

S.No.	Name of the Student	Year/ Class	Type of Event	Date	Title	Venue / Institute
1.	K. Dharani	III B.E. ECE-A	Workshop	16.02.19	IoT based home automation using Raspberry PI3	GCT College of Technology, Coimbatore.
2.	M.Aruna Devi	III B.E. ECE-A	Workshop	16.02.19	IoT based home automation using Raspberry PI3	GCT College of Technology, Coimbatore.
3.	B.Abarna	III B.E. ECE-A	Workshop	16.02.19	IoT based home automation using Raspberry PI3	GCT College of Technology, Coimbatore.
4.	C.Merlin Freda	III B.E. ECE-A	Workshop	16.02.19	IoT based home automation using Raspberry PI3	GCT College of Technology, Coimbatore.
5.	B.Nandhini	III B.E. ECE-A	Workshop	16.02.19	IoT based home automation using Raspberry PI3	GCT College of Technology, Coimbatore.
6.	R.Malarvizhi	III B.E. ECE-A	Workshop	16.02.19	IoT based home automation using Raspberry PI3	GCT College of Technology, Coimbatore.
7.	S.Uma Maheswari	III B.E. ECE-B	Workshop	12.02.19 & 13.02.19	Embedded Systems	PSG Institute of Technology and Applied Research, Coimbatore.
8.	K.Sneha	III B.E. ECE-B	Workshop	12.02.19 & 13.02.19	Embedded Systems	PSG Institute of Technology and Applied Research, Coimbatore.
9.	P.Sowmiya	III B.E. ECE-B	Workshop	12.02.19 & 13.02.19	Embedded Systems	PSG Institute of Technology and Applied Research, Coimbatore.
10.	K.Nivethitha	III B.E. ECE-B	Workshop	12.02.19 & 13.02.19	Embedded Systems	PSG Institute of Technology and Applied Research, Coimbatore.

11.	S.Puja	III B.E. ECE-B	Workshop	12.02.19 & 13.02.19	Embedded Systems	PSG Institute of Technology and Applied Research, Coimbatore.
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STUDENT CONTESTS PARTICIPATION

S.No.	Name of the student	Year/ Class	Type of Event / Activity	Prize/ Place	Date
1.	Ashwin Liza.A Danison Durai.S Durga Devi.S Kousalya.P.G Reshikumar.P	III ECE	SMART INDIA HACKATHON 2019	participation	11.01.2019
2.	Abhishek.H Aravind lal.R.L Divya.M Gayathri Devi.G Gokul.S Kavitha.A	III ECE	SMART INDIA HACKATHON 2019	participation	08.01.2019
3.	Ragul.K Ashwini.B Mathumitha.D Nisha jenifer.C Rohith.T Vibin.R	II ECE	SMART INDIA HACKATHON 2019	participation	08.01.2019
4.	Subiksha pattnaik Sruthi sagar.T.K Vishal.C.P Sri Raam.T.S Sooriya Somasunadaram Vignesh.V	II ECE	SMART INDIA HACKATHON 2019	participation	18.01.2019
5.	Rithin Mohanan Raj Kumar.S Rahul.S Thamilavel Gangatharan.S.A Sankar.R Pushpa.M	II ECE	SMART INDIA HACKATHON 2019	participation	18.01.2019
6.	Sornamugi.V Nivethitha.K Rajamohamed.A Rangesh.R Revanth.R Shankari.S	III ECE	SMART INDIA HACKATHON 2019	participation	08.01.2019

STUDENT CONTESTS ACHIEVERS

- 1) **V.Sornamugi** from III year ECE B has won II in paper presentation event conducted by SREC College on 14/02/2019.
- 2) **R.Revanth** from III year ECE B has won II in paper presentation event conducted by SREC College on 14/02/2019.

INDUSTRIAL VISIT

- **Second Year Students visited Celestial V Solutions, Bangalore on 19.12.2019.**



- **Third Year Students visited Kodai FM, Kodaikanal on 24.02.2019.**



PLACEMENTS

M.Revanth & Smyrna Jeba Rani from IV ECE B got selected in Wipro, Chennai.

45 Students from IV ECE got offer letters through placement cell. The few Companies lists are as follows:

- Ugam Solutions
- Force Motors
- Alpha Associates
- Vee Technologies
- Bigzia Teleservices
- Beta Technologies
- Jaro
- KGiSL GSS
- NTT Data
- Campus Images

My Life at KiTE



**Ms.R.Ragapriya,
Cognizant, Chennai.
(2014-2018 Batch)**

"KiTE was an incredibly rewarding experience.

It is a pleasure to learn with such gifted faculties".

"I get to observe academic passions get ignited as they become

Aware of their potential in electronics world".

