



# KCG

## COLLEGE OF TECHNOLOGY

( A Unit of Hindustan Group of Institutions )

A Christian Minority Institution

Approved by AICTE & Affiliated to Anna University, Chennai  
Accredited by National Board of Accreditation (NBA), New Delhi  
An ISO 9001:2008 Certified Institution



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## From the Editor's Desk

Dear Reader

It is heartening to note that the KCG campus buzzed with plethora of activities during the odd semester of the academic year 2017-18. The college newsletter, Campus Buzz, presents a wide variety of technical, professional, social and cultural events organised and participated.

Campus Buzz is a testimony that reveals the importance the institution attaches to the overall development of students, teachers and society. Technical experts from industry and academia are invited to give deliberations on the recent trends in engineering and technology and enable students to find engineering solutions to scientific and societal problems. Teachers are also encouraged to do research in their fields of specialisation, present and publish research papers and to serve as resource persons. Programmes organised for school and other college students and career development initiatives taken by the institution validate its interest in the welfare of the student community and society at large.

The exposure given to the students gives them the confidence to participate in various inter-collegiate competitions and achieve success.

Dr R Jaya  
Associate Professor of English

## Congratulations on Best Industry Linked Electrical Engineering and Allied Institute Award



"AICTE - CII Survey of Industry Linked  
Technical Institutes National Award 2017"

**KCG COLLEGE OF TECHNOLOGY IS IN  
THE PLATINUM CATEGORY**

- \* KCG-EEE is the Winner in Electrical & Allied Category
- \* KCG-CSE & IT in Top 65 of Computer & Allied Category
- \* KCG-Mech & Aero in Top 130 of Mechanical & Allied Category



## Social Responsibility Initiative



**Dr Anand Jacob Verghese,**  
Director & CEO, Hindustan Group of Institutions,  
distributing the education kit

**H**industan Group of Institutions in association with Y's men International, South India region organized 'Bag 2 School' project on 17th June 2017 in the campus. Dr Anand Jacob Verghese, CEO, Hindustan Group of Institutions, and Regional Director, Y's Men International South India region presided over the function. Education kits containing a school bag, a T-Shirt, a Cap and a LIFCO Dictionary were distributed to 1000 underprivileged students studying in various government schools.

HRM Ysm Prof. C. Robin, Regional Secretary, Ysm. M.K.Rangaswamy, Regional Treasurer, Ysm. Mohan Punnen, Former Regional Director & Advisor and Ysm. George Thomas, Former Regional Director & Advisor were present.

## MoU Signing Ceremony: Strengthening Industry Institute Synergy

The Department of EEE signed an MoU with Servion Global Solutions on 5th July 2017. Dr Annie Jacob, Director, KCG College of Technology, and Mr Prakash Arunachalam, Chief Information Officer, Servion Global Solutions signed the MoU. The MoU was signed with a view to increasing the employability standards of the students by setting up an AI & Machine Learning Centre of Excellence in the campus.



**Dr Annie Jacob,**  
Director,  
KCG College of Technology  
and **Mr Prakash  
Arunachalam,**  
Chief Information Officer,  
Servion Global Solutions  
signing an MoU

The Department of Civil Engineering signed an MoU with Builders Association of India on 9th August 2017 at the office of the Builders' Association of India (BAI) at Egmore in Chennai. The MOU was signed by Mr K Venkatesan, Chairman, BAI Southern Center, and Dr Prabhakaran, Principal, KCG College of Technology. The MoU was signed with the objective to help students get internships in various construction companies and also help them to find suitable employment opportunities.



**Mr K Venkatesan,**  
Chairman  
BAI Southern Center and  
**Dr Prabhakaran,**  
Principal,  
KCG College of Technology  
at the MoU Signing  
Ceremony

## Best Institute Fostering Academia Research Industry Partnership Award by the Associated Chambers of Commerce & Industry of India (ASSOCHAM).



Principal Dr G Prabhakaran receiving the award from Dr Sathya Pal Singh, Minister of State for Human Resources Development, Government of India.

## Partnership with PALS Pan IIT Alumni Leadership Series.

**K**CG College has been one among the partnering institute with PALS Pan IIT Alumni Leadership Series. It has won the Best Partnering Institute Award, Best Student Volunteer Award and PALS Innawah Award.



Dr Annie Jacob, Director, KCG College of Technology receiving Best Partnering Institute Award



Student Representative receiving the Best Volunteer Award



Winners of PALS Innawah Competition receiving the Award



## A Proud Moment for Graduands and Parents



**T**he 15th Graduation Day of the college was celebrated on 5th August 2017. Dr M P Poonia, Vice-Chairman, All India Council for Technical Education was the chief guest. Dr Poonia presented medals to

the rank holders and degree certificates to the graduating students. A total of 693 graduates received their degree certificates and the 49 university rank holders received medals and cash awards. Dr Elizabeth Verghese,

Chairperson, Hindustan Group of Institutions delivered the presidential address. The Principal welcomed the gathering and presented the graduation report.

## IIEC and OASIS Inauguration

**K**CG Innovation, Incubation and Entrepreneurship Centre (IIEC) and the Office of Student Affairs and International Student Services (OASIS) were inaugurated by Dr Elizabeth Verghese, Chairperson, Hindustan Group of Institutions. Dr Anand Jacob Verghese, CEO, , and Dr Annie Jacob, Director, KCG College of Technology, were also present. The heads of the various offices presented their activities for the academic year.



Dr Elizabeth Verghese, Chairperson, Hindustan Group of Institutions inaugurating IIEC and OASIS



## KCG Engenius '17: A Forum for Youngsters to Express their Talents and Knowledge

Nearly a thousand enthusiastic youngsters from 22 schools participated in KCG Engenius '17 conducted on 25th October 2017. Competitions like Programming Contest, Best Sustainable Solution, Science Fair, and Instrument solo, Battle of the bands, Group Dance, Debate, Adzap, Street Theatre, Quiz, Spell Bee, and Treasure Hunt were conducted.

Workshops on Robotics, App Development, 3D printing and Internet of Things provided a great opportunity for students to learn about emerging technologies. A special aerospace exhibition, as well as the display of more than 50 innovative models, kindled in the students the spark of creativity and innovation. One of the highlights was a spectacular air show, where KCG students flew drones and aero models they had built.

Prof S Ramachandran, Vice Chancellor of HITS, presided over the Valedictory and distributed the prizes and cash awards to the winners. Alpha Matriculation School won the overall winner's trophy.



School students attending the workshop on Robotics



Winners of KCG Engenius '17 receiving the trophy from Prof S Ramachandran, Vice Chancellor of Hindustan University



Air show by students of KCG



School students listening to an explanation at Science Fair

## Freshers' Day

Virtuoso'17, the fresher's day, was held on 11th November 2017. The first year BE /B Tech students participated enthusiastically in competitions like Group dance, Music, Ad-Zap, Variety Entertainment, Style Icon, Photography, Painting Contest, Rangoli and Mehendi and won many prizes. A video on the activities of the different clubs of KCG was shown. The campus newsletter was also released during the occasion.



## Value Added Course

**A**s part of the MoU signed with Rajiv Gandhi Memorial Telecom Training Centre (RGMTTC), BSNL, Meenambakkam, Chennai, the department of Electronics and Communication Engineering arranged a 3-day value added course on "GSM and Broadband Communication" for second-year students from 18th to 20th July 2017 at RGMTTC.



## Birthday Celebrations in the Campus

- The birthday of our beloved chairperson Dr Elizabeth Verghese was celebrated on 4th October 2017 in the campus. A video on her career and achievements was screened. During the occasion the chairperson addressed the faculty members. She shared a few anecdotes from her personal life which made faculty members reflect on maintaining a good balance between work and family.



Birthday celebrations of our beloved Chairperson Dr Elizabeth Verghese

- Former President Dr APJ Abdul Kalam's 86th birthday was commemorated on 16th October 2017. Group Captain A Arunachaleswaran, Commanding Officer, MTI from IAF, Tambaram, and Mr S Ganesan, DRDO Scientist, RIC-IIT Madras were the guests. Captain Arunachaleswaran gave a lecture on "Design Consideration for Aircraft Brake Parachutes" and Mr.S. Ganesan on "Solid Rocket Motors and Combustion Instabilities".



The Principal, Dr. G. Prabhakaran, honouring the Chief Guest Captain Arunachaleswaran

## Boot Camp on Higher Education in the US

The Higher Education and the International Affairs cells of the college jointly organized a boot camp on higher education in the US. Shanthi Charath Mohan, Coordinator, EducationUSA, Unites States India Education Foundation (USIEF) was the resource person.

The boot camp focused on the five steps to US education: researching options and shortlisting universities, financing studies, completing the application, applying for a US student visa and preparing for departure to the US. The participants also had a workshop on how to write statement of purpose (SOP).





## Investiture Ceremony

The department of Mechanical Engineering conducted an investiture ceremony on 14th July 2017. The newly appointed councils of the "Association of Mechanical Engineers" were adorned with badges by the guests.



(The guests with the newly appointed councils of Association of Mechanical Engineers)

## Project Club Inauguration

The inauguration of the Project Club was held on 16 September 2017. Dr V Subbaroyan, Professor & Head- ECE, inaugurated the club. The members of the club learnt the basics of electronic devices and its practical specifications, details of tools, and practiced soldering and de-soldering on the Printed Circuit Board.



## Hour of Code

Hour of Code, a one-hour coding challenge for school students, was conducted as a part of social outreach programme by the departments of CSE and IT. Around 299 students from various schools participated in the programme and practiced coding through fun.



An initiative of school connect



# Knowledge Sharing and Updating

## *Sponsored Technical Programmes*

• IET sponsored two-day Faculty Development Programme “Green and Energy Efficient Buildings with Emphasis on Power Management” was organized by the department of EEE on 15th and 16th June 2017. Forty two participants from various colleges and industries like CDM Smith Global Services, L&T, CMRL, attended the programme.

Mr Babu Radhakrishnan, Director – Business Development, Johnson Electric Private Limited, Chennai inaugurated the FDP. Ms Gayatri Chauhan, Regional Manager – Market Development (Asia Pacific and Middle East), Green Business Certification Inc.(GBCI), Bengaluru; Mr S S Ali, Consultant – Energy Conservation and Project Management, Chennai; Dr L Ramesh, Founder and Chairman, Energy Efficiency Research Group

(Green9), Chennai, Director – MGR Vision 100MW; Dr S Raj Kumar, In charge – Centre for Excellence and Futuristic Development, Larsen & Toubro Limited, Chennai, Mr Vignesh Sundaram, Head – Construction, SolarTown Energy Solutions Private Ltd; and Mr M Krishna Manoharan, Head – Business Manager (Solar), ReGen Powertech Pvt. Ltd., Chennai were the resource persons.

• IET sponsored two-day Faculty Development Programme on “Power System Analysis – Using ETAP” was conducted by the department of EEE on 22nd and 23rd June, 2017. Mr Gandhirajan, Petro Engineering & Construction Pvt. Ltd, Chennai; Mr Prasanth, PowerProjects, Chennai; Mr Emmanuel, Voltech Engineers Pvt Ltd, Chennai; Mr Berwin, PowerProjects, Chennai, and Mr Tamil, Power Projects, Chennai were the resource persons.



(The members of faculty undergoing hands on training)

• IET sponsored Two-day National Workshop on “Future of Power Protection – Emerging Challenges” was organized by the department of EEE on 7th July 2017. Dr L R Rajagopal, Chief Executive Officer (CEO), Signals and Systems Private Limited, Chennai was the chief guest. Mr G Mahendiran, Head Engineering (Testing & Commissioning), Easun Reyrolle Limited (ERL), Chennai; Dr Mahendra V Chilukuri, Professor, Power System and Smart Grid, School of Electrical Engineering, VIT University, Vellore; Mr KR Sasikumar, Technology Lead Engineer, ABB, Chennai; Mr K N K Srinivas, Megger (India) Pvt Ltd, Chennai were the resource persons.

• IET sponsored the two-day National Seminar titled ‘Futuristic Opportunities and Challenges in IoT’ organized by the department of CSE and IT on 21st and 22nd July 2017. The seminar was inaugurated by Mr Rajiv R G, Principal-Technologist from DXC Technology, Chennai. Mr Srinivasan Sundararajan, Technology adviser, GAVS Technologies, Chennai ; M. Shabarinath Premalal Founder, ResPro Labs, Chennai ; Mr Dileep Paruchuri, Project/Program Manager, Intel Technologies, Bengaluru; Mr Ramakrishna Patra, Head of Manufacturing Solutions and IoT Nokia , Chennai and Mr P Kartikeyan, Manager, Industrial Engineering and Automation, Nokia, Chennai, were the resource persons.



The principal honouring  
Mr. Rajiv R G,  
Principal-Technologist, DXC Technology, Chennai

• AICTE sponsored FDP on “Internet of Things for Ambient Assistive Living” was conducted by the department of ECE from 30th October to 13th November 2017. Dr. Senthamarai Selvam, Senior Principal Scientist-CLRI-CSIO, Chennai was the Chief Guest. Fifty Participants from various technical institutes attended the Programme.



Participants undergoing hands-on training



Dr V Subbaroyan- (HoD-ECE)- honouring the resource person  
Dr M A Bhagyaveni, Professor, Anna University Chennai

• AICTE sponsored seminar on “Latest Trends and Advances in UWB Antenna Design” was organized by the department of ECE on 9th and 10th November 2017. Thirty one participants from various parts of Tamilnadu participated in the seminar. Mr. T. Jayanandan, CEO-Tesla Minds, was the chief guest for the inaugural function. Dr. Esther Florence, Associate professor, SSN college of Engineering, Chennai; Dr. M.A Bhagyaveni, Professor, Anna University Chennai; Ms.Kavitha Balamurgan, Associate professor, KCG College of Technology; Dr. S. S. Karthikeyan, Assistant Professor, IIITDM-Kancheepuram were resource persons.



• ICMR sponsored two-day seminar on Internet of Things for E-health Initiatives in India was organized by the department of ECE on 11th and 12th November 2017. Dr Swarna Ravindra Babu, Founder & CEO of Coovam Smart Systems and Services Private Limited, was the Chief Guest for the inaugural function. Thirty participants from various technical institutions participated in the seminar.



Dr V Subbaroyan, HoD-ECE, addressing the gathering

## National Seminar on Lean and 6 Sigma

A National Seminar on "Lean and 6 Sigma" was conducted by the department of Mechanical Engineering on 14th July 2017. Dr L Sivaraman, Head - Product Development, Ashok Leyland; Mr Ananda Kumar, Schwing Stetter; Dr S Rajkumar, Rane Engine Valves Vice President (Operations) were the guests.



Participants during GIS Survey

• AICTE sponsored the two-week faculty development programme on "Integrating Geographical Information System (GIS) into E-Health and Telecommunication" organized by department of ECE from 20th November 2017 to 3rd December 2017. Forty faculties from various institutions attended the programme.



Chief guest, Dr L Sivaraman, addressing the gathering

## Workshops Organised



Officials of Solar Radiation Resource Assessment attending the workshop.

• The department of Electrical and Electronic Engineering of KCG College of Technology, organized a three-day workshop on "MATLAB Programming (An Ubiquitous Tool for Practicing Engineers)" from 16th to 18th May 2017 for the officials of Solar Radiation Resource Assessment, National Institute of Wind Energy. Dr G Giridhar, Deputy Director General / Head (SRRA), GoI, MNRE, NIWE was the chief guest for the inaugural function.



Dr C Chinnaraj, Registrar, honouring the chief guest.

• A one-day workshop on "Fourth Industrial Revolution (Industry 4.0)" was organized by Department of Mechanical Engineering on 19th August 2017. Mr C V Gowri Shankar, Secretary, National Institution of Quality and Reliability highlighted the skill sets the engineers should develop in order to cater to the needs of industries that are expected to be dominated by automation and artificial intelligence in future.



Dr Pruthviraj U, Assistant Professor, Applied Mechanics And Hydraulics, National Institute of Technology Karnataka addressing the participants.

• The workshop on Virtual Lab conducted on 20th October 2017 by department of Mechanical Engineering focused on how the present day internet and computer technologies help students and researchers to overcome the challenges related to space and resources. Dr K V Gangadharan, Professor- Mechanical Engineering and Head - Centre for System Design, National Institute of Technology Karnataka, and Dr Pruthviraj U, Assistant Professor, Applied Mechanics and Hydraulics, National Institute of Technology Karnataka, were the resource persons.

## Guest Lectures

- Department of EEE conducted a guest lecture on 'Advancements in Special Electrical Machines' on 18th July 2017. Mr Azhagar Raj from Hybrise Technologies was the resource person.

- Department of EEE conducted a guest lecture on 'Recent Trends in Management for the final year students' on 28th July 2017. Dr S Ramanathan, Former Director, School of Management Studies Anna University Coimbatore was the resource person.

- Department of Mechanical Engineering organized a guest lecture on 'Building Energy and Comfort' on 31st August 2017. Dr Srinarayana Nagarathinam, Senior Scientist, Innovation Labs, Tata Consultancy Works, Chennai was the resource person.



(Dr I A Palani addressing the gathering)

- Department of Mechanical Engineering organized a guest lecture on "Development of Smart Materials for Robotics and Functional System" on 7th July 2017. Dr I A Palani, Associate Professor, Metallurgical and Material Science, IIT- Indore was the resource person.

## Faculty Development Programmes

- A two day FDP on "ME 6505- Dynamics Of Machines" was organized by the department of Mechanical Engineering on 16th and 17th June 2017. Around 30 faculty members from various colleges participated in the FDP.

- The department of EIE conducted a seven day FDTP on EE6303 – Linear Integrated Circuits and its Applications from 17th to 24th May 2017. Dr Sabitha, Associate Professor (EIE), MIT Campus, Anna University inaugurated the session. Dr N Pappa , Associate Professor (EIE), MIT Campus , Anna University, Dr Sudha, Assistant Professor(EIE), MIT Campus , Anna University, Dr V R.Ravi, Professor & HOD of Velammal Engineering College and Mr C Kannan , Assistant Professor, Arunai Engineering College , Tiruvannamalai were the resource persons



Dr Sabitha, Associate Professor (EIE), MIT Campus, Anna University, addressing the gathering

- A two day Faculty Development Programme (FDP) on Engineering Graphics was conducted by the department of Mechanical Engineering on 21st and 22nd June 2017. Twenty four teaching faculty from various colleges participated.



Dr C Chinnaraj, Registrar distributing the certificates to the participants



## Training Programmes

- The non-teaching staff of the college was given a four-day training in Gas Welding by Mr. Yoganathan, Welding Instructor, HIET Polytechnic College from 23rd to 26th May 2017.

- More than 100 students from polytechnic colleges participated in the one day "Skill Development Program in Gas Welding" organized by the department of Mechanical Engineering on 19th June 2017.



- Internal Quality Assurance Cell (IQAC) organized a two day training on "Management of Quality Circles for Effectiveness of Educational Institutions" on 22<sup>nd</sup> and 23<sup>rd</sup> June 2017. The training was conducted by team of experts headed by Mr. Mayuranathan, Past Chairman, Quality Circle Forum of India, Chennai Chapter.

- The department of EEE organized NSDC certified five-day Training on "Solar Rooftop Grid Engineer" from 10-14 July 2017.



- The department of EEE organized a two-day training on "Grid Connected Solar PV Systems" on 14<sup>th</sup> and 15<sup>th</sup> July 2017 for polytechnic students. The members of faculty from the department, Dr S Solai Manohar, Professor; Mr S Balaji, Assistant Professor; and Mr K Karthikeyan, Associate Professor, were resource persons. The students were taken to the 100kW plant located in the campus.

## Social Awareness Programmes

• The members of EWG - KCG chapter actively participated in the Seed Graha –Seed Plantation Activity conducted on 28th July 2017. Nearly 100 seeds were sown near Mother Theresa block of our campus and Hindustan International School campus.

• The EWG - KCG chapter in its meeting with EWB Chennai on 19th August 2017 discussed the importance of cleaning lakes and ponds. Ms.Lubna Yasmeen, the president of EWB Chennai and Mr.Gokul, an EWB member and Scientist- ISRO were present.



• EWG - KCG in association with Bhumi conducted an awareness programme on 'Right to Education (RTE)' on 26th August 2017 at Ambedkar Nagar, Adambakkam. An awareness that the all private aided schools have to reserve 25% seats for the children from disadvantaged or economically weaker sections from neighborhood was created. The procedures to apply for admission under RTE act were explained.



(Mr. Gokul an EWB member and Scientist- ISRO, addressing the gathering)

## e-Cell Orientation for First Year students

Cloud10, e-cell of the college conducted e-Cell orientation for the first year students on 26th September 2017. An insight on Cloud 10 and its activities in the campus was given. An overview of Learnwise app, National Entrepreneurship Network (NEN) Foundation and the activity "Idea Box" was also given. Idea Box, an ideation activity was conducted in which the students were divided into groups and were asked to come out with product ideas after a discussion with the group members. The best idea was awarded.



Students discussing their product ideas

## Our Contribution towards Research

• Dr N Bharathi, Professor and Head, Department of EIE has been sanctioned Rs. 40 lakhs by DST for her project titled "A novel SMART radiation monitoring cyber physical system with IoT based dosimeters for Radiation Environment".

• The department of EEE has received a sum of Rs.50,000/- as financial assistance from ICMR for organizing Workshop on Medical Image Processing Techniques in clinical research and Health Care.

• The department of ECE has received a grant of Rs.6,99,225/- for conducting Faculty Development Programme.



## ***Paper Publications***

### ***Department of Aeronautical Engineering***

- Vijayaraja, K. (2017). Performance optimization of aircraft in frontline squadrons. Aircraft Engineering and Aerospace Technology, 89 (2).
- Vijayaraja, K. (2017). Reduction of aircraft downtime using concurrent maintenance philosophy and condition based maintenance. Journal of Balkan Tribological Association, 23 (1).
- Vijayaraja, K. (2017). Maintenance challenges of Wankel rotary engines and utility in aviation applications. International Journal of Theoretical and Applied Mechanics, 12(3).
- Vijayaraja, K. (2017). Acoustic and mixing characteristic of CD nozzle with inverted triangular tabs. International Journal of Ambient Energy, DOI: 10.1080/01430750.2017.1354328
- Vijayaraja, K. (2017). Flow field and acoustic characteristics of elliptical throat CD nozzle. International Journal of Ambient Energy, DOI: 10.1080/01430750.2017.1360205
- Vijayaraja, K. (2017). Flow field and acoustics characteristics of elliptical jet. Aircraft Engineering and Aerospace Technology

### ***Department of Civil Engineering***

- Judith Emilian Christy, S S. (2017) Treatment of synthetic turbid water using natural tamarind seeds at atmospheric conditions. Research Journal of Pharmaceutical, Biological and Chemical Sciences. Pp.35.E- ISSN 0975-8585.
- Vandhana Devi, V. (2017). Study on the assessment of vehicular emissions on urban air quality and its mitigation measures. International Journal of Recent Innovation in Engineering and Research Publication, 7(2).E- ISSN 2456-2084.

### ***Department of Computer Science and Engineering***

- Selvi Rajendran, P. (2017). Employability enhancement methods for engineering graduates. International Journal of Advanced Scientific Research and Management.
- Dhanalakshmi, R. (2017). Soft biometrics traits for continuous authentication in online exam using ICA based facial recognition. International Journal of Network Security.
- Sankar, S. (2017). Non-linear chaotic map for secure data transmission. International Journal on Recent and Innovation Trends in Computing and Communication.
- Sankar, S. (2017). CTE: A method to compression then encryption for images. International Journal Of Engineering Sciences & Research Technology.
- Krishnamurthy, M.(2017). Extracting the user's interests from web log data using a time based algorithm. International Journal of Trend in Scientific Research and Development.

### ***Department of ECE***

- Jose, Deepa. (2017). A novel PDR based fault tolerant system on chip. International Conference on Technology and Business Management.
- Renganayaki, G. (2017) Design and implementation of a reversible logic circuit and its power analysis using conventional CMOS and adiabatic logic. Journal of Computational and Theoretical Nanoscience.
- Jose, Deepa. (2017). Automatic detection of lung cancer nodules in computerized tomography images. National Academy Science Letters Springer.
- Jose Anand, Jose. (2017). A novel cardiac arrest alerting system using IoT. International Journal of Science Technology and Engineering, 13(10).
- Bai, Thulasi.V and Thyla, B.(2017, October 28). BhrtyArtana (A pipe cleaning and inspection robot). IEEE 3rd, International Conference on Sensing, Signal Processing and Security (ICSSS).
- Thyla, B. and Sadasivam, S (2017). Evolution of 5 G Technology - A study. International Journal Of Current Engineering And Scientific Research (IJCESR)

## Department of EEE

- DeivaSundari, P., Thangavelu, Anuradha and Vairakannu, Senthilkumar. (2017). LOCV-VSS-INC strategy based hybrid MPPT controller for remote power applications. IET Power Electronics, 10(11), pp. 1363-1376. DOI: 10.1049/iet-pel.2016.0245. ISSN No: 1755-4535.
- Vinoth, K and Arunan, S. (2017). Design of a high efficiency and minimum torque ripple three phase BLDC motor drive. International Journal of modern Trends in Engineering and Research. 4(8). DOI : 10.21884/IJMTER.2017.4248.RYPOZ. ISSN No: 2349-9745
- Jitha Varghese, Jitha and Karikottil, Paul (2017). Footstep power generation using piezoelectric sensors. International Journal of Recent Innovation in Engineering and Research. 2(8). Pp. 11-17. E-ISSN: 2456-2084
- Serene and Kumar, Navin K (2017). Relay coordination in a 11kv substation using ETAP. International Journal of Recent Innovation in Engineering and Research. 2(8). Pp. 18-26. E-ISSN: 2456-2084
- Bose, Rubin S and Prem, Jasper J. (2017). Design and implementation of digital notice board using IoT. International Journal of Recent Innovation in Engineering and Research. 2(8). Pp. 78-84. E-ISSN: 2456-2084

## Department of Information Technology

- Baskar.M, and Gnansekaran.T. (2017). Developing efficient intrusion tracking system using region based traffic impact measure towards the denial of service attack mitigation. Journal of Computational and Theoretical Nanoscience. 14(7).pp. 3576-3582 ISSN: 1546-1955 (Print); EISSN: 1546-1963 (Online).

## Department of Mechanical Engineering

- Ramesh, S. (2017). Design and analysis of single punching die for Al-Mg alloy components. International Journal of Engineering Science Invention Research & Development.
- Ramesh, S. (2017). Design and fabrication of compacting machine for nano products. International Journal of Mechanical Engineering and Futuristic Technology.
- Kannan, Rajesh S and Kumar, Vignesh M. (2017). Optimization analysis of process parameters of friction stir welded dissimilar joints of aluminum alloys. Applied Mechanics and Materials.

- Kannan, Rajesh S. (2017). Effect of reinforcement and tribological behavior of AA7068 hybrid composites manufactured through powder metallurgy techniques. Applied Mechanics and Materials.

- Sivashankar. (2017). Effect of reduced graphene oxide on corrosion and erosion corrosion behavior of electroless NiP coating. Wear.

- K.Gobivel, K. (2017). Impact of cutting forces and chip microstructure in high speed machining of carbon fiber – epoxy composite tube. Arch. Metall. Mater- 62(3), pp.1771-1777. Annexure I

## Department of Science and Humanities

- Jayanthi, Nalini. S. (2017). Vickers microindentation hardness studies of DI-Methionine Doped Copper Sulphate (Mcs) single crystal. Materials Today. 4. Pp. 358-362. Scopus Indexed

- Johny, Linu M. (2017). Facile synthesis, formation mechanism and optical properties of ZnO nanostructures. Springer Proceedings in Physics DOI: 10.1007/978-3-319-44890-9\_29.

- Praveena, Jose Parvin.N. (2017). Analysis of system failure of single cylinder vertical diesel engine using fuzzy fault tree through interval valued hexadecagonal fuzzy number. Global Journal of Pure and Applied Mathematics. 13(2). Scopus Indexed.

- Praveena, Jose Parvin.N. (2017). Sequencing problem using hexadecagonal fuzzy number. Global Journal of Pure and Applied Mathematics. 13(2). Scopus Indexed.

- Praveena, Jose Parvin.N. (2017). Hexadecagonal fuzzy number. Global Journal of Pure and Applied Mathematics. 13(1). Scopus Indexed.

- Praveena, Jose Parvin.N. (2017). A study of decision making problems using hexadecagonal fuzzy relational maps (HDFRMS). International Journal of Pure and Applied Mathematics. 113(2). Pp. 89-97. Scopus Indexed.

- Praveena, Jose Parvin.N. (2017). A new intuitionistic decagonal fuzzy number and its application. International Journal of Computer Application. 7(5). Scopus Indexed.

- Praveena, Jose Parvin.N. (2017). Intuitionistic hexadecagonal fuzzy numbers and its applications. Global Journal of Pure and Applied Mathematics. 13(2). Scopus Indexed.

- Jaya. R. (2017). A qualitative study on using interactive fiction for enhancing employability skills. The Journal of English Language Teaching (India). 59(5).pp.22-27.



## Paper Presentations

### Staff Presentations

• Dr R Jaya, Associate Professor of English has presented a paper titled 'A Mixed Method Study on the Effectiveness of Collaborative Approach in Managing the Issues of Heterogeneity in Language Classrooms' in the international conference organized by English Language Teachers' Association of India and ST. Teresa's College, Eranakulam on 29th June 2017.

• Dr P DeivaSundari, Prof- EEE presented a paper titled "Comparative analysis of common MPPT techniques for solar PV system with soft switched, interleaved isolated converter" in the IEEE Conference on Industrial and commercial power systems at Milan, Italy on 6th July 2017.

• Dr M Krishnamurthy, Professor and Head, Department of CSE, presented a paper titled "Survey: Anomaly detection in network using big data analytics in the International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017) conducted by SKR Engineering College, Chennai on 1st and 2nd August 2017.

• Dr V Andal, Assistant Professor of Chemistry has presented a paper titled 'Silver Oxide Nanocolloid Based Selective Colorimetric Sensor For The Recognition Of Cystine In Aqueous Solution' in the 4th International Conference on Nano Science and Nano Technology (Iconn2017) organized by SRM University, Kattankulathur from 9th August 2017 to 11th August 2017.

• Ms K Suba, Assistant Professor of Chemistry has presented a paper titled 'Acid Fuchsin Schiff Base-Modified Silver Nanoparticles and its Antimicrobial Efficiency' in the 4th International Conference on Nano Science and Nano Technology (Iconn2017) organized by SRM University, Kattankulathur from 9th August 2017 to 11th August 2017.

• Dr Dhanalakshmi, Assistant Professor, Department of CSE presented a paper titled "Spreading Epidemic Awareness using Web scraping and Firebase Cloud Messaging Platform" in the National Conference on ICT Solutions for Challenges and Issues in e-Health (NCICTEH'17 conducted on 1st September 2017.

• Dr R Jaya, Associate Professor of English has presented a paper titled "Wacky Web Tales for Developing Writing" in the National Conference IPTELL 2017 organized by Kongu Engineering College on 10th October 2017.

• Dr P Selvi Rajendran, Professor-CSE presented a paper titled "Gesture Supporting Smart Notice Board Using Augmented Reality" in the International conference on Next Generation Computing (NGCT 2017), organized by University of Petroleum and Energy Studies, Dehradun on 30th and 31st October 2017.

• Dr S Ramesh, Professor and Head, Department of Mechanical Engineering presented papers titled "Investigation on Mechanical and Fatigue behaviour of Aluminium based SiC/ZrO<sub>2</sub> Particle Reinforced MMC" and "Study on the repeatability of manufacturing composite laminates and tubes by hand layup and vacuum bagging technique" in the International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2017) organised by BITS Pilani Dubai Campus, Dubai International Academic City, UAE on 28th and 29th November 2017.

### Student Presentations

• Mr S Ajith Kumar, Mr Arun kumar, Mr Karthik balaji and Mr Sakthi of III EIE presented a paper titled "Bionic Virtual Eye" in the Intra College Paper Presentation event conducted on 31st August 2017.

• Mr Kishan Sai Kumar and Mr T S Rakesh of III EIE presented a paper titled "Cybernetic Living Tissue" in the Intra College Paper Presentation event conducted on 31st August 2017.

• Mr Jai balaji and Mr Krishna Hariharan of III EIE presented a paper titled " SP wheel chair" in the Intra College Paper Presentation event conducted on 31st August 2017.

• Mr T S Rakesh of III EIE presented a paper titled "Smart Unmanned Ground Autonomous Rover" in the International Conference organised by KLN College Of Information Technology on 13th and 14th October 2017.

• Mr T S Rakesh , Mr J Prasanna, Mr S Ajith Kumar and Mr Sakthi of III EIE presented a paper titled "Cybernetic living tissue transforming life from inside" in the International Conference organised by KLN College Of Information Technology on 13th and 14th October 2017.

## Professional Development Activities

- Mr Thomas Leonid T, Assistant Professor, Department of ECE delivered a lecture on Summer school Series on Core Technologies at Anand Institute of Higher Technology (AIHT), Chennai on 12th June 2017.

- Praveen Joe I R, Associate Professor of CSE, was a resource person for the Faculty Development Programme on Service Oriented Programming organised by Sri Jayaram College of Engineering and Tech, Gummidipoondi on 30th June 2017.

- Dr Albert P'Rayan, Professor of English, and Head, Higher Education, was a resource person at the English Language Teachers' Association of India (ELTAI) 12th International and 48th Annual Conference held at St Teresa's College, Cochin on 29th June to 1st July 2017 and conducted a workshop on "Developing Learners' Critical Reading Skills".

- Dr Frank Vijay J, Professor, Department of IT, delivered a special lecture titled "Introduction to Research Methodologies" in the one day workshop on "Writing Scientific Research Papers" organised by Computer Society of India at KCG College of Technology on 10th July 2017.

- Mr SreekanthaKumar V P, Associate Professor, Department of IT, delivered a special lecture titled "Types of Research & Analysis" in the one day workshop on "Writing Scientific Research Papers" organised by Computer Society of India at KCG College of Technology on 10th July 2017.

- Dr Rajkumar R, Associate Professor, Department of IT, delivered two special lecture sessions titled "Emerging Recent trends & Organization" and "Journal online submission, Indexing & Citation Analysis" in the one day workshop on "Writing Scientific Research Papers" organised by Computer Society of India at KCG College of Technology on 10th July 2017.

- Dr Emilin Shyni C, Professor, Department of CSE, was a resource person in the workshop on cyber security organised by Dr.MGR.Janaki College of Arts and Science, Chennai on 18th July 2017.

- Dr Albert P'Rayan, Professor of English, and Head, Higher Education, served as a resource person at a training workshop organized by the Tamilnadu State

Council of Educational Research and Training (TN-SCERT) for teachers of English on 22nd July 2017.

- Tamizhselvi SP, Assistant Professor, Department of CSE, was a resource person for the National Workshop organised by Saveetha Engineering College, Chennai on 24th July 2017.

- Dr Albert P'Rayan, Professor of English, and Head, Higher Education, conducted a Faculty Development Program (FDP) on the topic 'Learner Autonomy' at Dr MGR Educational and Research Institute on 4 August 2017. It was attended by thirty members of faculty.

- Dr Albert P'Rayan, Professor of English, and Head, Higher Education, took part in a round table discussion on "English Language Pedagogy in 21st Century Classrooms" on 17th August 2017 at American Centre, US Consulate, Chennai.

- Mr Baskar M, Assistant Professor (Sel.Grade), Department of IT, acted as a Judge in National Level HACK4Throne Competition conducted by the Department of Information Technology, Rajalakshmi Engineering College, Thandalam in association with Computer Society of India on 26th and 27th August 2017.

- Dr Deiva Sundari P, Professor and Head, Department of EEE was a resource person in Industrial Training on Optical Power Ground Wire (OPGW) & Communication organised by General Electricals, Chennai on 5th and 6th September 2017.

- Dr Solai Manohar S, Professor, Department of EEE was a resource person in Industrial Training on Optical Power Ground Wire (OPGW) & Communication organised by General Electricals, Chennai on 5th and 6th September 2017.

- Mr Karthikeyan K, Associate Professor, Department of EEE was a resource person in Industrial Training on Optical Power Ground Wire (OPGW) & Communication organised by General Electricals, Chennai on 5th and 6th September 2017.



# Hall of Fame

## Awards and Accolades Received

- Dr Anand Jacob Verghese, Director & CEO, HGI was re-elected as Chairman of AeSI (Aeronautical Society of India) Chennai Chapter for a period of two years.
- The Society of Educational & Entrepreneurship Development (SEED) has selected Department of Electrical & Electronics Engineering for the " Sustainable Institute Industry Partnership Award - 2017".
- Dr Asad Ahmed, Associate Professor and Mr Jayabau, Assistant Professor, Aeronautical Engineering have received Special Alumnus Award from MIT Chennai.
- Dr V S. Priya, Associate Professor, Civil Engineering received VIFA Award 2017 for being an outstanding faculty in Engineering.
- Dr R Amrutha, Associate Professor of Physics received "Distinguished Scientist Award" from Venus International.
- Dr R G Geethumani, Asst. Professor, Physics Department has been recognized as a research guide by Anna University.
- Dr S Balaguru, Associate Professor, Mech. Engg. Dept. has been recognized as Research Supervisor of Anna University.
- Mr Naren Shankar Assistant Professor, Aeronautical Engineering has been awarded Degree of Doctor of Philosophy in the faculty of Mechanical Engineering.
- Dr P DeivaSundari, HoD- EEE was awarded the South India's Most Inspiring Teacher in the Under40 category by New Indian Express.
- Dr M Krishnamurthy, HoD- CSE was recognised for years of dedication in teaching by Lions Club
- Mr A Balaji, Assistant Professor- CSE received Inspire Faculty Partnership Level 2017- Bronze from Infosys Limited.
- Dr R Dhanalakshmi, Associate Professor- CSE was awarded APJ Abdul Kalam Award for Teaching Excellence by Marina Lab.
- Dr S Ramesh, HoD-Mechanical Engineering, received Best Administrator Award from Dr Kalam Educational Trust, Chennai.
- Dr M Geethalakshmi, Assistant Professor of Mathematics received Young Researcher Award for her outstanding best practices and contribution in the field of Education and Research.
- Dr Jose Anand was honoured with "Outstanding Faculty in Engineering" award by VIFA and Bharat Vikas Award 2017.
- Dr Deepa Jose was honoured with "Outstanding Woman in Engineering" award by Venus International Foundation.

## Technical Events

- Mr Subadeve S of final year EEE won first place in UNIT 365-SAVE POWER Contest conducted by Green9.org on 29th July 2017.
- Mr Sreenath G, Ms Sowmya D and Ms Yeshmiha R of III EEE won second place in UNIT 365-SAVE POWER Contest conducted by Green9.org on 29th July 2017.
- Mr S Naveen Kumar, Ms Jasper Grace Catherine, Mr Pranav Charan and Mr Pradeep Kumar, third year students, won second place for creating a promotional video on Power Wastage in the contest organised by Green9.org.
- Mr Santhosh T and Mr Nishanth A of final year EEE won first place in Electro quest-EMERGE 2K17 conducted by Velammal Engineering College on 5th August 2017.
- Mr Santhosh T and Mr Nishanth A of final year EEE won second place in Tech Soldering -EMERGE 2K17 conducted by Velammal Engineering College on 5th August 2017.
- Mr Abiraj J A of III EEE won first place in Bigg Boss-Surge 2K17 conducted by Velammal Engineering College on 12th August 2017.
- Mr Prasad K Jose, Mr Prashant Kumar and Mr Pratik S Bhosale and Mr Radheyam of final year CSE B won second prize in Poster Presentation Contest on River Ganga Rejuvenation conducted by SRM University on 7th September 2017.
- Mr Deva T, Ms Jasper Grace Catherine G and Mr Jagadees D of III EEE won second place in Technical Quiz, an invent in the National Level Tech Fest-Invente2.0 organised by SSN College of Engineering on 9th September 2017.
- Ms Jasper Grace Catherine G of III EEE won first place in Market Mania, an event in the National Level Tech Fest-Invente2.0 organised by SSN College of Engineering on 9th September 2017.
- Ms Srimathy K, Ms Ponselvi C and Ms Monisha S of III EEE won second place in EN-LACE an event in the National Level Students Symposium-ELEKTRAKAN'17 organised by St.Joseph's Institute of Technology on 9th September 2017.
- Mr Elhan Mathew Shaji, Mr Amit Pothina, of III Mechanical A won first place in Auto Quiz, an event in Invente 2.0 conducted by SSN College of Engineering on 8th and 9th September 2017.
- Mr V Harsha Kumar and Mr Amit Pothina of III year Mechanical A won first place in Sci-Tech Quiz, an event in Invente 2.0 organised by SSN College of Engineering on 8th and 9th September 2017.

- Mr Prasad K Jose, Mr Prashant Kumar and Mr Pratik S Bhosale of final year CSE B won first prize in IET Smart City Challenge on 10th September 2017.
- Mr Justin Prabhakar of III CSE A and Mr N Kumaran of II CSE B won first place in the Code Master organized by Alpha College of Engineering on 15th September 2017.
- Mr Aravind P V of III CSE A won first prize in Debug the Duino conducted by VIT University on 16th September 2017.
- Mr Aravind P V of III CSE A won first prize in Debug the Duino conducted by VIT University on 16th September 2017.
- Mr Derrick Sam Anu Christopher of final year Mechanical A won first place in Technofes-Symposium organized by DMI Engineering College on 23rd September 2017.
- Mr Ram Sankar of II CSE B won first prize in Technical Auction in UBERTECH'17 organised by SRM University on 15th and 16th October 2017.
- Mr Sai Manjunath, Mr Ram Sankar and Mr Vishal of III CSE B won third prize in Hackathon in UBERTECH'17 organised by SRM University on 15th and 16th October 2017.
- KCG Team was recognised as the top ranked Indian team in the international robotic challenge event held at China from 25-27, August 2017 Our students won a special jury award. Also, Mr Karthikeyan of final year Aeronautical Engineering won Best Team Cooperation Award.
- Eight of our students participated in The World Festival of Youth and Students, Russia 2017.
- KCG Team was selected as one of the 75 teams for the SAE Aero Design Challenge to be held at Florida, USA during March 2018.
- The students of CSE won first prize of Rs 1,00,000 in Smart India Hackathon 2017 under the Ministry of Environment, Forest and Climate Change. Their project "Hi-Qual Surveillance System" is shortlisted for a fund of Rs. 3,12,000 from AICTE.
- A team of students participated in e-Yantra Ideas Regional Finals Competition conducted by IIT Bombay and won a cash prize of Rs. 10,000/-
- Mr Balasurya, Mr Agasthiya, Mr Ajith Kannan and Mr Chitrarasu of Mechanical Engineering have won Rs 25,000 for their contribution in Coin National Expo on Design and Innovation AICTE & IIT Delhi.
- SAE Supra Inferno Racing Team comprising 25 students from the department of Mechanical is ranked eleventh in India and first in Tamilnadu in the event organised at Noida, Buddh Circuit.
- Manzoor Abizer of final year Mechanical Engineering and Mr Aaron Mathews Oommen, Assistant Professor, Mechanical Engineering won Rs. 55,000 in Carbon Zero Challenge 2018, South India's Renewable Energy Contest held at IIT Madras.



## Toastmasters Club

The semi-annual conference 'Opulence & Konnect 2017' of Toastmasters International (Division G & K, District 82) was held on 29th October 2017. Ms Poorani, Assistant Professor of Mathematics, a member of the KCG TM club secured the 2nd place in the Humorous Speech Contest and Ms Sudha, Assistant Professor of English was one of the finalists in Evaluation Speech Contest. Our Student member Mr Bharani (Final Year AERO) received the 'Excellence in Leadership' award.



Ms Poorani, Assistant Professor of Mathematics receiving the award from Chief Judge of the contest TM Alex

## KCG Immortals - Dance Troupe

The dance troupe of the college, KCG Immortals, won the first prize in the Tamilnadu Dance Fest, a professional western dance competition, held at Grand Mall, Velachery on 18th May 2017. The team won a cash award of Rs. 25000.



## International F-9 (Go Karting) Championship

The students from department of Mechanical Engineering participated in International F-9 (Go Karting) Championship- (IF9GKC) , conducted by KK Motors & Koshi Motors at RPM racing circuit, Bhopal from 6th to 9th September 2017.



## Group Discussion Contest

Mr Praveen Kumar, Ms T Ramya and Mr Aditya Chhetri of final year ECE won first, second and third prizes respectively in the Group Discussion Contest organized by department of ECE and IETE on 4th August 2017.



## Paper Presentation Contest

- The second and third year students of ECE participated in the technical paper presentation contest organized by the department of ECE in association with IETE on 31st August 2017. Shreya S and Shubham Kumar of second year ECE and D Joel Andrews and A Ajay Naraynan of third year won the first prize. Arun Kumar S, Hemant Kumar, Kothaai R and S K Hareshaa of second year and M Jaishree, A Hemavathy, M. Elakkiya, D Poornima, M M Pooja Prasan and K Poonkuzhali of third year won the second prize.

- Mr Kuralarasan Madhan of III CSE A won third prize in Paper Presentation competition conducted by Velammal Engineering College on 12th August 2017.

- Mr Prakash, Mr T U Ravichandar, Mr D Sanjith, Mr M Shamin Anwar and Mr S Shamir Ahamed of II Civil Engineering, mentored by Dr. V.Vandhana Devi, won cash award of Rs 10,000 for their research paper in the National Conference on "Sustainable Clean Water Tech" organized by Crescent University, Chennai on 21st and 22nd September 2017.



- Mr Sanjay R of III year Mechanical Engineering won first place in paper presentation event in Invente 2.0 organised by SSN College of Engineering on 8th and 9th September 2017.

- Ms K Anjana, Ms Ancy Mathew, Ms T Suchita, Ms Ashwathi Ganesh of III CSE A won second prize in Paper Presentation competition conducted by VIT University on 15th September 2017.



Winners of National Conference on Sustainable Clean Water Tech with Dr. V. Vandhana Devi, Mr.J.John Alexander and Dr. V. S. Priya



## Quiz Contest

- The department of EEE, in association with IEEE Control System Society, Madras Section conducted a quiz competition "QUIZ 2K17" on 19th August 2017. The students from the department of EEE bagged the first prize in the quiz competition "QUIZ 2K17" organized by the department of EEE in association with IEEE Control System Society, Madras Section on 19th August 2017. The second and third prizes were won by students of EIE and IT department respectively.

- The department of ECE and IETE conducted a technical quiz contest for second year students. Mr S Arun Kumar secured the first prize, Ms D S Ramya the second and the third prize was shared by Ms R Kothaai and Ms V Nivedha.

- Mr V Harsha Kumar and Mr Amit Pothina of III year

Mechanical A won first place in Sci-Tech Quiz, an event in Invente 2.0 organised by SSN College of Engineering on 8th and 9th September 2017.



Quiz Contest Participants

## Sports and Games

- Mr R Dinesh kumar participated in the Under 19 Camp conducted by National Cricket Academy, Bangalore from 27th July to 21st August 2017.

- Mr J Manoj of final year Mechanical B won second place in 4x100 Mts Medley Relay organized by Tamilnadu State Aquatic Association on 8th and 9th September 2017.

- Mr S Sabarish of first year EIE won the Chennai District Boxing Championship organized by Tamilnadu Boxing Association on 9th and 10th September 2017.

- Mr. L. Nagajothi of third year Aeronautical Engineering participated in TFF Minime Series and All Thailand Fencing Championship organized by Thailand Fencing Federation in Bangkok between 9th and 17th September 2017.

- Mr J Manoj of final year Mechanical B won second place in Aquatics-50 mts Back stroke conducted by UCE,BIT-CAMPUS, Trichy on 24th September 2017.

- Mr J Manoj of final year Mechanical B won second place in Aquatics-100 mts Back stroke conducted by UCE,BIT-CAMPUS, Trichy on 24th September 2017.

- Mr J Manoj of final year Mechanical B won third place in Aquatics-200 mts Free style conducted by UCE,BIT-CAMPUS, Trichy on 24th September 2017.

- Mr M Manoj of final year Mechanical Engineering won second place in Anna University Inter Zonal Swimming Tournament held on 24th and 25th September 2017.

- Ms Little Prasanna Soundari of I year M.E Mech PED won third prize in 5000 mts. Anna University Zonal Athletics Championship conducted on 7th October 2017.

- Mr Sadagopan K of final year EEE got selected as Net bowler for India- Australia ODI by Tamil Nadu Cricket Association.

- Mr Gowtham S of III EEE was called to represent the state cricket team by Tamil Nadu Cricket Association.

- KCG college team won the Anna University Handball Zonal Tournament.

- Ms Rajeswari of final year EEE won silver in State Karate Championship Tournament.



Winners of Handball Zonal Tournament



Mr. Sabarish, Winner- Chennai District Boxing Championship



Ms. Rajeswari receiving the medal and certificate



# KCG

**COLLEGE OF TECHNOLOGY**

( A Unit of Hindustan Group of Institutions )

Campus Address: KCG Nagar, Rajiv Gandhi Salai, Karapakkam, Chennai - 600 097. India.

Ph. : +91-44-2838 9001 / 02 / 03 | Mobile: +91 90038 71717 / +91 95669 99916

Email: principal@kcgcollege.com | Email: info@kcgcollege.com

Administrative Office: 40, G.S.T Road, St. Thomas Mount, Chennai - 600 016. India.

Ph. : +91-44-2234 0968 / 2234 2508 Fax: +91-44-2234 2170 Email: hetc@vsnl.com

Email: enquiry@kcgcollege.com

[www.kcgcollege.ac.in](http://www.kcgcollege.ac.in)

Toll Free: 1800 425 44 38