

KCG COLLEGE OF TECHNOLOGY
KARAPAKKAM, CHENNAI 600 097

19th College Day – 27.03.2017
Principal's Annual Report 2016-2017

Welcome

Good afternoon and a warm welcome to you all.

Today, the nineteenth annual day of our college, is a significant day for all of us gathered here. It is a day for us to recall the noble vision of our Founder Chairman Dr KCG Verghese and celebrate our achievements in the field of education.

On this occasion, I am privileged and honoured to welcome our chief guest Dr R Nataraj, current Member of the Legislative Assembly, and former DGP and Chairman of TNPSC, for honouring us by accepting our invitation to be the Chief Guest of our 19th College Day celebrations. I express my sincere gratitude to the chief guest for spending the day with us and making it a memorable day in the history of KCG College of Technology.

I wholeheartedly welcome our chairperson Dr Elizabeth Verghese, CEO and Director Dr Anand Jacob Verghese, Director Dr Annie Jacob, Director Dr Aby Sam and guests.

I extend my welcome to Deans, Heads of Departments, members of the faculty, non-teaching staff and my beloved students.

On this wonderful day, when we have gathered here to acknowledge and celebrate the contributions of all achievers, I deem it an honour to present our 19th College Day report.

Our View of Education

KCG College of Technology, living up to the noble vision of its founder Dr KCG Verghese, strongly believes in the concept of holistic education and strives to achieve its goal of preparing students to meet the challenges that we face in the twenty-first century. We believe, it is important to provide education that focuses on the overall development of human personality. Guided by this principle, we prepare our students not only for academic success but also for life. Based on the principle of Outcome Based Education (OBE), we have shifted “the focus of educational activity from teaching to learning; skills to thinking; content to process and teacher instruction to student demonstration”.

Visit of the NBA Team

With the intention of promoting and making accreditation authorities recognize excellence in technical education at our college, our management decided to apply for accreditation by the National Board of Accreditation (NBA).

The NBA team visited our college on 3-5 March 2017 and results are awaited.

ISO Certification

During the academic year 2016-17, the Management System Process in our college was well on its track with various activities got ISO 9001:2008 recertified.

MoUs signed

Having felt the need to strengthen the industry-institution interaction and collaboration, our college has signed MoUs with some major industries and organizations such as National Institute of Wind Energy, Intel-IoT, CDCE, CISCO, DELL-EMC and Kamachi Group. Through this, industry supported laboratories were established. KCG College of Technology is a member of e-Yantra Project, an initiative to spread education in Embedded Systems and Robotics by IIT Bombay sponsored by Ministry of Human Resource Development through the National Mission on Education through ICT (NMEICT) and has set up a state of the art laboratory under the e-Yantra Lab Set-up Initiative (eLSI)

Academic performance of our students

The number of Anna University rank achievers is on the rise every year. The 2012 – 2016 batch under-graduate students and 2014-2016 batch post-graduate students of our college secured **49 Anna University ranks**. By this KCG College stands **13th** among the affiliated colleges in terms of number of ranks produced.

- 1) Department of Aeronautical Engineering : 14 ranks including 4th and 9th rank
- 2) Department of Information Technology: 4 ranks
- 3) Department of Electrical and Electronics Engineering: 3 ranks
- 4) Department of Mechanical Engineering: 3 ranks
- 5) Department of Electrical and Instrumentation Engineering: 2 ranks
- 6) Department of Civil Engineering: 1 rank
- 7) Department of Computer Science & Engineering: 1 rank
- 8) Post-Graduate Departments: 21 ranks

Research activities

The research forum of KCG college of Technology has been actively involved in promoting innovation and research activities. Five of our Departments have been approved as Research Centers by Anna University to offer M.S (by Research) and Ph.D Programmes.

Fifty-six proposals have been submitted by Faculty to various funding agencies for projects, organizing seminars, conferences, workshops and FDPs. Our students have also submitted 59 project proposals to TNSCST and IEEE of which one project is funded by IEEE. The results of TNSCST are awaited.

210 papers were published by the faculty during the academic year. Thirteen patents have been filed by various departments. Five Proposals have been submitted to ISRO under RESPOND programme and the results are awaited.

Funded projects

Our college has many funded projects to its credit. Almost all departments of our college are carrying out projects funded by various agencies. The following are the highlights of some of the funded projects supported by various government agencies:

1. The Ministry of Micro, Small and Medium Enterprises (MSME) has sanctioned **Rs 66.25 lakhs** for Entrepreneurial and Managerial Development of SMEs through Incubation for supporting 10 incubatees, which was initiated by our Vice-Principal Dr Sumathi Poobal.
2. The Department of EEE dept received **Rs. 18.9 lakhs** from National Institute of Wind Energy (NIWE), MNRE for a project titled , “Wind Driven Air Storage System”
3. Our College received **Rs 30 lakh** as fund for Improvement of S&T infrastructure in universities & higher educational institutions (FIST) from DST. Dr. G. Sambandan & Dr.P.Deiva Sundari were instrumental in applying for this scheme.
4. The department of Mechanical Engineering has received Rs. 8.5 lakh from AICTE as funding under Research Promotion Scheme for “Numerical & Experimental Investigation of Co-extrusion of Aluminium – Copper Composite”.
5. The Department of Computer Science and Engineering has been sanctioned Rs 1.6 lakh by the Tamil Nadu State Council for Science and Technology (TANSCST) for research on brain imaging techniques.
6. The Department of Aeronautical Engineering has been sanctioned Rs.9.8 lakh by DRDL as funding for research in base drag reduction studies by CFD and experimentation at low speeds.
7. The Department of Electrical and Electronics Engineering has been sanctioned Rs. 6.5 lakh by Hitachi Automotive Systems as funding for induction based car battery charger.
8. The Department of Electrical and Electronics Engineering has been given Rs.9.5 lakh by CVRDE for the Project "Modelling & Simulation of NBC inlet Valve Operations for Arjun MBT MK -1".
9. The Department of Electronics and Communication Engineering has been sponsored Rs. 4 lakh towards faculty development program on hardware verification techniques.

Many other funded projects are being carried out by various departments. I am confident our faculty will be able to get more funded projects in the future and through the projects will be able to contribute to the technological development better.

Conferences / Seminars / Workshops organized by various departments

Our college values continuing education and constantly encourages the departments to organize conferences, seminars and workshops. Thus it creates opportunities to the faculty to develop themselves professionally and also to disseminate knowledge. A number of conferences and workshops were organized by various departments during the academic year. Here are the details:

Conferences

- The departments of Computer Science and Engineering and Information Technology organized a two-day international conference on Knowledge based Computing Technologies on 3rd & 4th February 2017.
- A national conference was organized by the departments of Aeronautical and Mechanical Engineering NCAME-2017 on 24th March 2017.
- A national conference on “Sustainable Technology in Civil Engineering” was organized by the Department of Civil Engineering on 24th March 2017.
- A two-day national conference on Advances in Chemical Sciences and Technology was organized by the Chemistry division of the Department of Science & Humanities on 2nd & 3rd February 2017.
- The division of English of the Department of Science & Humanities organized a two-day national conference on Innovations in English Language Teaching Pedagogy on 2nd & 3rd September 2016.

Besides conferences, a number of seminars, workshops, guest lectures, symposiums and faculty development programmes were organized by various departments, which provided our faculty and students with opportunities to develop themselves professionally and academically.

Seminars (5)

- Department of Aeronautical Engineering: 2
- Department of Electrical & Electronics Engineering: 1
- Department of Civil Engineering: 2

Workshops (34)

- Department of Aeronautical Engineering: 3
- Department of Computer Science & Engineering: 3
- Department of Civil Engineering: 2
- Department of Electrical & Communication Engineering: 12
- Department of Electrical & Electronics Engineering: 3
- Department of Electrical & Instrumentation Engineering: 4
- Department of Information Technology: 2
- Department of Mechanical Engineering: 3
- Department of MCA: 2

Guest Lectures (39)

Our college encourages our faculty to invite experts from industries and academia to deliver guest lectures at our college. A total of 39 guest lectures were arranged by various departments.

- Department of Aeronautical Engineering: 4
- Department of Computer Science & Engineering: 5
- Department of Civil Engineering: 7
- Department of Electrical & Electronics Engineering: 10
- Department of Electrical & Instrumentation Engineering: 3
- Department of Information Technology: 4
- Department of Mechanical Engineering: 3
- Department of Science & Humanities: 3

Faculty Development Programs FDP (10)

- Department of Computer Science & Engineering: 1
- Department of Electrical & Communication Engineering: 4
- Department of Information Technology: 1
- Department of Mechanical Engineering: 3
- Department of Science & Humanities: 1

Achievements by Faculty

Some members of the faculty serve as resource persons in different professional development events. A few of our faculty have a distinction of being reviewers and editorial board members of international journals of various disciplines.

I congratulate Dr. Ramesh, Mr. Prabakeran Saravanan, Mr.T.Selvakumar, Dr.Aravind Raj, Dr.VS Priya, Dr. P. Deivasundari, Dr. P. S. Mayurappriyan, D.Sundarasekaran, Dr. R Asad Ahmed, Aero, Dr. K. Vijayaraja, Aero, Dr. Sivarama Krishna Das, Dr M Krishnamurthy, Dr R Dhanalakshmi, Dr C Emilin Shiny, and Dr Albert P'Rayan for achievements as resource persons and reviewers.

Awards

Our college is proud of some distinguished members of the faculty who have brought laurels to the institute by bagging many awards.

- ✓ Dr. M Krishnamurthy, HoD-CSE, received “Distinguished Faculty 2016” award for Data Mining from Venus International Foundation in Chennai on 09/07/2016.
- ✓ Dr.Thulasi Bai, HoD-ECE, received IETE-Technomedia Awards for Young Women in Engineering (2016), Professional Achievement (2016) from IEEE Chennai Chapter.
- ✓ Dr. Deepa Jose received the IET-Best Guide/Mentor/IET RAC Innocation Challenge IET, Chennai 2016.
- ✓ Dr. P.S. Mayurappriyan, Professor-EEE, received the Outstanding Faculty in Wind Energy Systems in the Venus International Faculty VIFA 2016 on 9/07/2016.
- ✓ Dr. P. Deivasundari received "Outstanding Scientist award" in the field of Power Electronics. She also received “Distinguished HoD” and “Senior Woman Educator & Scholar” awards.

My hearty congratulations to all the awardees who have brought laurels to our college.

Important Events

Our college organized many events during the academic year 2016-2017. Here are details of some important events:

Hindustan Young Leaders' Conference (HYLC)

Hindustan Young Leaders' Conference (HYLC) 2017 was organized in collaboration with United Nations Information Centre for India and Bhutan on 27th January 2017. HYLC 17 marked the fifth successful edition of the conference receiving applications from over 56 institutes from different parts of India.

Space Odyssey

In association with the Aeronautical Society of India (Chennai Branch), KCG College of Technology hosted a session on '**Space Odyssey**' where Dr. Ken Johnston Sr., a NASA astronaut from USA shared his experiences of working in NASA.

He also inaugurated 'LINK-Flight Simulator Centre' at the Avionics Lab in KCG College of Technology, the first ever college in Chennai under Anna University affiliation to have such an independent facility.

Activities of various cells and clubs

Internal Quality Assurance Cell

The Internal Quality Assurance Cell (IQAC) in our college was formed as per NAAC guidelines in December 2016 to enhance quality in academic activities.

Placement Cell

The placement team strives to achieve the objective of placing all the students. The important companies that visited the campus this year include Infosys Ltd, Tech Mahindra, Amazon, Juspay, DBS Bank, Zoho, Kaar Technologies, embedUR Technologies, Capgemini, CGI India, SANMAR Group, Indus Software, and Data Patterns. So far, 178 students have been placed this academic year.

Training Cell

The training cell commenced its activities in June 2016 by conducting a residential pre- placement training program for the students entering the final year. Students were trained in quantitative aptitude, verbal aptitude and reasoning aptitude. HR personnel from Infosys and alumni from various industries conducted mock interview. Company-specific training and company-specific tests were conducted.

The other training programs that our students attended during the academic year include BEC Prelims and BEC Vantage, Day to Day English, Soft Skills, Quantitative Aptitude, and Programming Skills.

Training cell of KCG college of Technology received “Learning Innovation Award” in the conference “Confluence 2016” in Hyderabad.

Higher Education Cell

The Higher Education Cell organized many programs to create awareness among students about the importance of higher education. Many organizations including the British Council, the United States-India Educational Foundation (USIEF), IDP Australia representatives conducted sessions on Higher Studies Opportunities.

KCG Clubs

In keeping with the vision of providing holistic education, fourteen new clubs were launched on 29 July 2016. The clubs such as Aero Modelling Club, Programming club, Mobile Apps Club, Robotics Club, Music Club, Dance Club, Photography Club, KCGMUN Club, Quiz Club, Civil Services Aspirants Club, Sports Club, Fitness Club, & Horse Riding Club, offer a mixture of technical and nontechnical, indoor and outdoor activities. It is to be noted that by gaining exposure through these clubs, many students in their very first year of engineering program have made the college proud by standing first in various intercollegiate co-curricular and extra-curricular competitions.

Toastmasters club

KCG ToastMasters club won the 'Excellence Award' for sustaining the club membership growth and our students club being a budding club was given the 'Rising Star' Award. Our ToastMasters Mr Jayaprakash, Mr Praveen Joe and Mr Princely Samuel as well as students won prizes in various contests.

EFY KCG Tech Center

The EFY KCG Tech Centre, in collaboration with *Electronics For You*, a popular technical magazine, conducts full-time hands-on training on Arduino and PCB Design at regular intervals. In a short span of time 193 students have been trained by the Tech Center.

Department of Physical Education

Our students participated in various games and athletic activities and emerged winners.

We have a long list of achievers. Here I would like to mention some achievements of our sportspersons. J. Samuel Stephen Raj of final-year Aero won the Gold Medal at PITS Sportiva and Silver Medal in Best Physique held at Sasurie Coimbatore. P.Rajeswari of third-year EEE won the Gold Medal in Sekars Martial arts National Championship. L.Nagajothi of second-year Aero won the gold medal in Fencing at PITS Sportiva. I also would like to mention here that we have good volleyball, handball and throwball teams which came off with flying colours in many tournaments. Congratulations to all achievers!

Achievements by students

Our students, guided by the faculty, have proved their talents and skills in numerous ways and have brought laurels to the institute.

Students of our college have been actively participating in various intercollegiate cultural events held at national level and have won many awards.

The college dance team won the first place with a cash award of Rs 1 lakh in the Radio Mirchi Kaloori stars 2017. They also won the first place in cultural fest conducted by MIDAS institute of architecture, the second place in Pride 2017 –

Savitha University, the first place in Srijana 2017 – PSG institute of management. The College music team won second place in Milan 2017 – SRM University. KCG MUN team has won numerous awards throughout the year including Best Delegation Awards at ICFAI MUN in Hyderabad – WCC MUN in Chennai. Congratulation to the culturals teams!

Here are highlights of other achievements by our students:

- Karri Sai Krishna Reddy of the Department of Aeronautical engineering secured All India Rank 25 in the GATE 2016 exam and is now pursuing higher studies in IIT-Bombay.
- O.V.Prasanthof the Department of Aeronautical engineering secured the 1st Prize @YMIC National level short film contest at making.
- Sanjay S, Dhanajayan, Raja Kannika, Hiten and Harsh L of the Department of Aeronautical engineering were winners in competition held by Space Tech India National Contest, Bangalore and won 1st Prize

Last word:

In the words of Jean Piaget “The goal of education is not to increase the amount of knowledge but to create the possibilities for a child to invent and discover, to create men who are capable of doing new things”. Our founder Dr KCG Verghese echoed the same outcome of education in different words “*Make every man a success and no man a failure.*” We have a great mission ahead and it is to help our students learn the right thing and enable them to manifest what they have learnt. This manifestation of perfection is possible if our minds and hearts are united in marching towards the goal we have set.

Let us continue our march and achieve the goal. Thank you.