



(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chittoor Main Road, Vellore - 632 059.

KINGSTON ENGINEERING COLLEGE

ANNUAL REPORT

AY 2019 – 2020





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VISION OF THE INSTITUTION

To be a pioneer in engineering and management education by providing amicable ambience and being a centre for learning thereby perpetuating versatile professionals in engineering and management suitable for industry, higher education and research.

MISION OF THE INSTITUTION

- ❖ Developing, nurturing and building professionals with technical, research and managerial expertise, intellectual proficiency, right attitude and moral ethics.
- ❖ Building infrastructure that earmarks the institution to be the most preferred educational destination and provides the right ambience for creative and innovative teaching - learning process.
- ❖ Enabling learners to broaden their horizon and helping to meet global challenges.



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Annual Report 2019-2020

I feel proud to stand before you to present the Annual Report for the Academic Year 2019-2020.

Kingston Engineering College approved by AICTE, New Delhi and affiliated to Anna University, Chennai was established in the year 2008 by the Duraimurugan Educational Trust to encourage education among rural and urban students in and around Vellore.

Chairman Thiru. D. M. Kathir Anand's leadership embodies the ethos of Kingston Engineering College, a commitment to excellence, innovation, and student-centricity. His tireless efforts and visionary approach continue to inspire and empower the entire Kingston community to strive for greater heights of success.

The following UG and PG programmes are offered in our College.

Under Graduate Programs

- ✓ Bachelor of Civil Engineering
- ✓ Bachelor of Computer Science & Engineering
- ✓ Bachelor of Electrical & Electronics Engineering
- ✓ Bachelor of Electronics & Communication Engineering
- ✓ Bachelor of Information Technology
- ✓ Bachelor of Mechanical Engineering

Post Graduate Programs

- ✓ Master of Business Administration
- ✓ Master of Engineering in Applied Electronics
- ✓ Master of Engineering in Power System
- ✓ Master of Engineering in Computer Science & Engineering
- ✓ Master of Engineering in Engineering Design

The Kingston engineering college has emerged as an engineering institution providing value added, quality education and as an institution that striding towards excellence. Our college is accredited to the NBA for tenure of 3 years and we have a Research center for the Department of EEE & Mechanical engineering.



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We have well qualified faculty members and non-teaching staff members on roll as per AICTE norms. Our college has doctorates in various departments and many faculties doing their doctorates in various disciplines.

AWARDS AND RECOGNITION OF COLLEGE

Our college has received numerous accolades and recognition from various government and non-governmental organizations.

- ✓ No. 1 in Vellore District
- ✓ 100+ Anna University Rank Holders
- ✓ Best IEEE Students Chapter Award
- ✓ Affiliated to Anna University
- ✓ State-of-the-art Research Centres by Anna University
- ✓ Global Excellence Recognition Award 2019
- ✓ 3-Star Rating - MHRD - IIC Awards
- ✓ Received Global Excellence Award in GERA 2019
- ✓ Received Centre of Excellence from Ashok Leyland
- ✓ Certificate of Appreciation from VR CAREERZ for Excellence in Placement.
- ✓ Global Excellence Recognition Award 2019 from Verobert for Excellence in Industrial Interface.
- ✓ Membership Certificate from MHRD's Innovation Cell, Govt. of India for Contribution to MHRD's Innovation Cell.
- ✓ Appreciation Certificate from IBN for Guest of Honour.
- ✓ Certificate of Appreciation from Christian Medical College Blood Bank for Voluntary Blood Donation and Safe Blood through the Camp.

ACADEMIC EXCELLENCE

We extend our heartfelt congratulations to the rank holders of Anna University. Your achievements are a source of pride for the college. The rank holders for the academic year 2018 – 2019 are



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- ✓ S. Vidhyameena of CSE secured 28th rank
- ✓ S.J. Sumitha of CSE secured 38th rank
- ✓ P. Yuvarani of CSE secured 39th rank
- ✓ B. Priyadharsini of EEE secured 48th rank
- ✓ V. Mayvisha of ECE secured 27th rank
- ✓ K. Sandhyaa of ECE secured 46th rank
- ✓ R. Vignesh of MECH secured 25th rank
- ✓ P. Kumaresan of MECH secured 37th rank
- ✓ K. Kishore of MECH secured 50th rank
- ✓ R. Ranjitha of M.E.(CSE) secured 38th rank
- ✓ K. Banupriya of MBA secured 31st rank
- ✓ K. Jeevitha of MBA secured 33rd rank
- ✓ J. Monisha of MBA secured 37th rank
- ✓ J. Vishnupriya of MBA secured 37th rank

For the Academic Year 2019-2020 (ODD SEMESTER), we received April/May 2019 Anna University Results. Out of 1917 students, 1286 students cleared the semester examination and obtained overall pass percentage of 67.8.

2019-2020 (EVEN SEMESTER), we received November/December 2019 Anna University Results. Out of 1308 students, 760 students cleared the semester examination and obtained overall pass percentage of 58.10.

FACULTY ACHIEVEMENT AND AWARDS

Faculty achievements are a testament to their expertise, dedication, and contributions to their respective fields.

- ✓ Dr.N. Shankarganesh, Professor/MECH, received grant of Rs. 1 Lakh for “3D Printer” from Glow Feet Technologies Pvt. Ltd., Kanchipuram in the year 2019
- ✓ Mrs.M. Rathika, AP/ECE, received a grant of Rs.7 Lakhs for “MATLAB Enabled Advanced Wireless Communication Laboratory” from AICTE in the year 2019.
- ✓ Dr.N. Shankarganesh, Professor/MECH, received grant of Rs. 12 Lakhs for “Modernisation of Thermal Engineering Laboratory” from AICTE in the year 2019.



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STUDENT SCHOLARSHIP

Scholarship is provided for the students by both Government & Management. For SC/ST students, a total tuition fee reimbursement cum scholarship is provided.

During the academic year 2019 - 2020, out of 1310 students, 848 students got benefited by scholarships and freships provided by the Government and Non-Government agencies.

RESEARCH AND INNOVATION

Faculty research and innovation are integral to the mission of an engineering college, driving academic excellence, societal impact, and economic growth.

- ✓ Mrs. D. Kumutha Mr.J. Paul Richardson Ganaraj, AP/ECE, Mrs. M. Rathika, AP/ECE and Mrs.N. Vanitha published a patent on Noise Filtering System for Digital Signal Transmission.
- ✓ Dr. T. Senthil Kumar, AP/ECE, Dr. S. Vishnu Priyan, Associate Professor/ECE, Mrs. L.Mohana Sundari, AP/ECE, Mr.K.P. Senthil Kumar, AP/ECE, Mr. Prasath,AP/ECE, Mr.C. Sureshkumar, AP/ECE published a patent on Vehicle Display Unit Control System and a Method.
- ✓ Dr. S. Vishnu Priyan, Asso. Prof/ECE published a patent on Clogging Control and Prevention in Routing in WSN.
- ✓ Dr. N. Shankar Ganesh, Prof/MECH, Mr.S. Mahendiran, AP/MECH, Mr. D. Manivannan, AP/MECH and Mr. N. Keerthivarman, AP/MECH published a patent on Combined Thermo dynamic Cycle Based Power Generation System.
- ✓ Dr.N. Shankar Ganesh, Prof/MECH, published a patent on Combined Renewable Energy Based Heat, Power Generation and Cooling System and a method.
- ✓ Mrs.S. Sarah, AP/IT, published a paper titled “Neural Networks in Classifying Medical Imaging: Liver Cancer” in Journal of Computational and Theoretical Nanoscience.
- ✓ Mrs. W. R. Thulasi Brindha, AP/EEE, published a paper titled “Modified PMSG System using Trans Z Source Network for Grid connected UPFC system” in International Journal of Engineering and Advanced Technology (IJEAT).
- ✓ Dr. V. Mohanavel, AP/MECH and Dr.M.M. Ravikumar, Prof/MECH & Principal published a paper titled “Mechanical and tribological behavior of mg-matrix



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composites manufactured by stir casting” in International Journal of Vehicle Structures & Systems.

- ✓ Mrs.L. Mohanasundari, AP/ECE, published a paper titled “Weld Flaw Detection Based on Likelihood Estimation and Wavelet Transform” in International Journal of Engineering and Advanced Technology (IJEAT).
- ✓ Dr.Perepi Rajarajeswari, Asso. Prof/CSE, published a paper titled “Study on Design analysis of Detection and Elimination of Malaria diagnosis system” in Caribbean Journal of Science.
- ✓ Dr. T. Senthil Kumar, AP/ECE & D. Kumutha, AP/ECE, published a paper titled “Comparative Analysis of the Fuzzy C-Means and Neuro-Fuzzy Systems for Detecting Retinal Disease” in Circuits, Systems, and Signal Processing.

FACULTY DEVELOPMENT PROGRAM/WEBINAR/SEMINAR/GUEST LECTURE/CONFERENCES

The Faculty Development Program, Webinar, Seminar, Guest Lecture and Conference are being conducted by all departments to motivate the staff and students in Engineering and develop their skills and strengthen the staff in latest trends and technologies. Totally 93 faculties participated in Faculty Development Program and 62 faculties have been provided financial support to participate the same in other institution. Totally 48 non-teaching staffs participated in professional and administrative programs.

STUDENT ACHIEVEMENT

Students of our college participated in various Workshops and Guest Lectures during this academic year.

- ✓ Guest Lecture on "Awareness Program On Foreign Trade" Under Niryat Bandhu Scheme Of OGFT.
- ✓ Two days Guest Lecture on "Innovation and Intellectual Property Rights"
- ✓ Guest Lecture on "Brand Building Strategies"



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WORKSHOPS / SEMINARS / CONFERENCES CONDUCTED ON RESEARCH METHODOLOGY, INTELLECTUAL PROPERTY RIGHTS (IPR) AND ENTREPRENEURSHIP

The faculty members and Students of our college participated in various workshop/seminar/conference focuses on raising awareness and understanding of intellectual property rights (IPR) and their significance in fostering innovation, creativity, and economic development.

- ✓ Guest Lecture on "Export Business and challenges faced by 1st generation Entrepreneurs".
- ✓ Workshop on "Securing Innovation: Intellectual Property Rights in the Creative Process".
- ✓ Workshop on "Investor Awareness".
- ✓ Guest Lecture on "Enhancing Managerial Competencies of Entrepreneur".
- ✓ Guest Lecture on "Awareness Program On Foreign Trade" Under Niryat Bandhu Scheme of OGFT.
- ✓ Two days Guest Lecture on "Innovation and Intellectual Property Rights".
- ✓ Guest Lecture on "Innovation and Entrepreneurship".
- ✓ Guest Lecture on "Brand Building Strategies".
- ✓ Sponsored Vehicle from Renault Nissan Automotive India Private Limited (Datsun RediGO bearing VIN: MDHFBACD0G4300316).
- ✓ Aqua Sub Engineering Sponsored Agricultural borewell Submersible Pump set. (Model-ST093D, RS 40/25).
- ✓ Hyundai Motor India Limited Sponsored CRETA, (VIN:MALC381RAJM353685).

ADD ON CERTIFICATE COURSES

Apart from the regular academic courses, individual departments offer various value add on courses.

- ✓ The Department of Civil Engineering has conducted three value added courses on Construction Equipment in Innovative Construction Materials, Pavement Material Characterization and Advanced Structural Analysis.



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- ✓ The Department of Computer Science and Engineering has conducted three certificate courses on Internet of Things, Introduction to Data Science and Java Programming- An overview.
- ✓ The Department of Electrical and Electronics Engineering has conducted three value added courses on Robotics and Automation, Programmable logic controller and SCADA.
- ✓ The Department of Electronics and Communication Engineering has conducted three value added courses on IoT for Embedded System, Advanced Digital signal processing and Embedded C and ORCAD.
- ✓ The Department of Information Technology has conducted two value added courses on Digital Image Process using Matlab and Guest Lectures on Bigdata and Hadoop.
- ✓ The Department of Mechanical Engineering has conducted three certificate courses on Design of Cellular Manufacturing System, Material Characterization Techniques and Basics of Design using CATIA.
- ✓ The Department of Management studies has conducted two value added courses on Training and Development and Six Sigma.
- ✓ The Department of Science and Humanities has conducted two value added courses on Introduction to Academic writing and Probability and Statics.

CELLS AND COMMITTEES

Each cell or committee plays a crucial role in enhancing different aspects of college life, fostering holistic development among students, and contributing to the overall growth and reputation of the institution. There are various cells and committees established in our college, Entrepreneurship Development Cell, Women Empowerment Cell, YRC, NSS, Institution Innovation Council, Research and Development Cell, English Club, Maths Club and Science Club.

- ✓ Importance of teaching gender equality for students
- ✓ Human rights and Gender Equity
- ✓ Gender Equality- Role of Education
- ✓ Make it Happen – Women safety
- ✓ Craft out of Waste- Developing the Hidden talents



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- ✓ Guest Lecture – “Somewhere Something Incredible is Waiting, That is – An Engineering”
- ✓ English Club-Guest Lecture on “Trends in Communicative English”
- ✓ Science Club – Guest Lecture on “Nano Materials in Electronics”
- ✓ English Club – Guest Lecture on “Culinary Feminism Aspects”
- ✓ AICTE supported Short Term Training Program (STTP) for “Effective Teaching Strategies in Engineering Education”
- ✓ Cultivating green trees for Health & Sustainability
- ✓ World Water Day-2019-Tree Saplings Plantation

STUDENTS SKILL DEVELOPMENT

Our college provides a range of programmes to enhance students' life skills, technical skills, language, communication, and ICT/computing skills.

- ✓ A seminar on “Interview Skill Training”.
- ✓ A seminar on “Practical Motivation Skill”.
- ✓ Problem solving Skill using C.
- ✓ Python Programming.
- ✓ Workshop on “Impact of language training learning Strategies”.
- ✓ Seminar on “Restore positivity and positive thinking”.
- ✓ Seminar on “Meditation in Corporate World”.

COMMUNITY ENGAGEMENT AND SOCIAL RESPONSIBILITY

In our college, community engagement encompasses a range of activities aimed at collaborating with local residents, organizations, and stakeholders to address shared challenges, promote mutual learning, and contribute to community well-being.

- ✓ "Making and Distribution of Seed balls to school children-Valarpom maram" was the focus of the tree planting drive that the KEC NSS unit organised on January 28, 2020.
- ✓ On 16th December 2019, the Green Energy and Environmental Club of KEC celebrated "National Energy Conversation Day" in collaboration with the Mettukulam Village Panchayat.



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- ✓ As part of the Swachh Bharath initiative, the NSS unit of KEC carried out a Temple Cleaning Drive at Kali Amman Kovil, Katpadi on 11th December 2019.
- ✓ On 02nd December 2019, the KEC Women's Empowerment Club entertained Mudhiyor Balar Kudumba Grama Pannai, KASAM, with a cultural performance by students and provided lunch and groceries.
- ✓ On 18th November 2019, the KEC NSS Unit conducted a Kalvi-Mentoring session with the students of Worth Trust School.
- ✓ On 14th November 2019, the school cleaning and skill development programme was carried out by the KEC NSS unit in collaboration with the VG Rao Nagar school education department at Katpadi panchayat.
- ✓ On 11th November 2019, the KEC National Service Scheme (NSS) unit conducted a cleaning campaign at the Katpadi railway station as part of Swachh Bharat.
- ✓ On 30th October 2019, the KEC NSS unit organised a Charity Project at the Anbu Ilam Orphanage.
- ✓ National Service Scheme (NSS) unit of KEC distributed saplings to outsiders on 16th September 2019, in observance of World Environment Day.
- ✓ On 30th August 2019, the KEC National Service Scheme (NSS) unit held a programme titled "Awareness on Road Safety."
- ✓ At Kanchaloor Primary School on 19th August 2019, the KEC NSS unit conducted skill competitions.
- ✓ A blood donation camp was organised at Katpadi on 1st August 2019, by the Rotary Club of KEC.
- ✓ On 10th July 2019, the KEC Women Empowerment Club of St. Xaviour High School in Christianpet organised a programme on "Sexual Harassment Awareness."

PLACEMENT AND TRAINING PROGRAM

A Placement and Training Program at an engineering college plays a crucial role in preparing students for successful careers in their chosen fields.

- ✓ The KEC Placement and Training department hosted a student interactive session on "Academics to Industry - Bridging the Gap" on 20th December 2019.



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- ✓ On 6th November 2019, the Department of Management Studies hosted a Guest Lecture titled "Awareness Programme on Foreign Trade".
- ✓ A workshop on Software Hands on Training C and C++ was held on 6th October 2019 at Kingston Engineering College.
- ✓ On 28th September 2019, Placement and Training Department of KEC organised a guest lecture on Software Industry Technical Interactive Session.
- ✓ A guest lecture on the Software Industry Technical Interactive Session was hosted by KEC's Placement and Training Department on 27th and 28th September 2019.
- ✓ On 28th August 2019, Placement and Training department of KEC organised one day seminar on Awareness About Civil Services Exams.
- ✓ On 22nd August 2019, Department of Placement and Training organised Guest Lecture on IoT, Industry 4.0, Analytics, Cloud Computing.

LIBRARY

KINGSTON has a well-stocked library with latest books, journals, periodicals and newspapers. The digital library has a 3Mbps lease line with enormous online resources from IEEE, IET, ASME, Science Direct, e-resource from Springer, EBSCO Business Elite and also institutionalized membership with DelNet and MalibNet.

- ✓ Reference Books.
- ✓ Back-volumes (Articles-searching through OPAC).
- ✓ Rare Book Titles (inter-library Loan- DELNET).
- ✓ Group Discussion Room as well as MULTIMEDIA FACILITY ROOM
- ✓ Materials for GATE, GRE, Competitive Exams, TOFEL Books, TANCET, Handbooks & etc.
- ✓ Department Library established for each department.
- ✓ New Arrivals of Book, Journals & Magazines are displayed
- ✓ Reprography Facility.
- ✓ Project Report Service.
- ✓ Book Exhibition – organizing all the academic year.
- ✓ OPAC facility.



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- ✓ Books & journals, Members-automated with bar code technology.
- ✓ Question booklet service.
- ✓ E-resources.

ALUMNI CONTRIBUTION

- ✓ The alumni meet was conducted on 02.10.2019. Alumni from different graduating classes had the opportunity to reconnect with old friends, classmates, and professors. The event provided a platform for reminiscing about shared experiences and forging new connections.
- ✓ The donation of books by alumni is a tangible expression of their appreciation for the education and experiences they received at our college. The donation of books by alumni contributes to the legacy and tradition of giving back to the college. It sets a positive example for current students, encouraging them to also contribute to the college community in meaningful ways once they graduate.
- ✓ Dr. V. T. Gannesh, Sr. Manager, Exhaust system, Tata Motors (Batch 2013 to 2015/MECH department) was the resource person for the Guest Lecture on “An Overview on Finite Element Analysis for Vehicle Dynamics”.
- ✓ Mr. S. Vignesh, Quality Control Department Econ Systems India Pvt. Ltd, (Batch 2014 to 2018 / ECE department) was the resource person for the Seminar on “Specifications in Adobe Campaign (Digital Marketing)”
- ✓ Mr. Manivannan, Entrepreneur (Batch 2014-2018 / IT department) was the resource person for the Workshop on “Marketing Strategies for an Entrepreneur”.

CELEBRATION AT KEC

Celebrations contribute to the holistic development and well-being of the KEC community, fostering a sense of belonging, pride, and unity among students, faculty, and staff. By coming together to celebrate occasions such as Pongal, Saraswathi Pooja, Diwali, Independence, Republic, Sports, Cultural, and Induction Day, KEC strengthens its sense of community and creates lasting memories for all involved.



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SPORTS

Sports at KEC contribute to the holistic development of students, promoting physical fitness, teamwork, skill development, leadership, social interaction, and stress relief. By providing opportunities for students to engage in sports activities, KEC creates a vibrant and supportive campus environment conducive to student success and well-being. Our KEC students participated in various state level competitions and have won awards/medals. Additionally, they have taken part in many numbers of intra- and inter-college competitions.

STUDENT PROGRESSION

The success stories emerging from our college are diverse, reflecting the varied aspirations and ambitions of our students. Among them, a notable number have secured coveted positions in multinational corporations (MNCs), leveraging their education and skills to thrive in the corporate world. Around 271 students got placed in reputed companies. Simultaneously, many others have demonstrated their prowess by clearing competitive exams, earning prestigious government jobs. Additionally, a substantial cohort has chosen the path of higher studies, furthering their academic journey to new heights of knowledge and expertise. Ms. M.H. Harija Govinda, Ms.S. Janani, Mr. Hiren Rawal, Mr.M. Dinesh and Ms.J.L. Monisha cleared IELTS examination. Mr.Nitish Kumar cleared TANCET and pursuing his higher studies in reputed university. Ms. V. Sabitha pursuing her M.E. Structural Engineering at Institute of Road and Transport Technology, Erode. Ms.R. Jayashree working as Branch Post Manager, Krishnagiri BO, Department of Posts, Government of India. Mr. Hamanth Kumar Jalapathi, Ms.D.D.E. Gowthami cleared GRE and IELTS. Ms.C. Archana works as Assistant in the VCC Bank, Vellore District Central Co-op Bank LTD. Mr. Hiren Rawal pursuing his higher education at Cape Breton University, Sydney, NS, Canada. Ms.S. Nandhini got Rank 8 and she was appointed as Assistant Engineer (CIVIL/PWD). Mr.R. Navin Kumar appointed as Forest Guard, Kottamalai, by Tamil Nadu Forest Department Vellore.



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CONCLUSION

Kingston College remains committed to providing quality education and expanding its academic offerings to meet the needs of our students and community. We are proud of our achievements and excited about the opportunities that lie ahead. Thank you to our students, faculty, staff, supporters, and community partners for your continued dedication and support.