



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

# KINGSTON ENGINEERING COLLEGE

## ANNUAL REPORT

AY 2020 – 2021





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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 2020-2021**

I feel proud to stand before you to present the Annual Report for the Academic Year 2020-2021.

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.

Kingston demonstrated its ability to excel academically in a short period of time. In Anna University examinations, Kingston ranks first in the Vellore and Thiruvannamalai districts.

Kingston's Chairman, Thiru. D. M. Kathir Anand, who has completed his MBA in the United States, is always eager to work for the improvement of the students, to provide them with the greatest facilities. His remarkable journey, marked by unwavering determination and innovative thinking, has been instrumental in shaping the course of our organization.

Our College offers various UG and PG courses offered by our college are

#### *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

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.



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## **COLLEGE HIGHLIGHTS**

- 100+ Anna University Rank Holders
- 100% Placement for all eligible students
- Sponsored vehicle from FORD India Private Limited (FORD, VIN:MAJ3S2FE7MC365288)
- Sponsored vehicle from TATA Motors Ltd (Xenon Yodha 4×4 BS VI, VIN:PC30287081RP04814)
- Accredited by NBA for UG in ECE, CSE, IT and Mechanical Engineering
- Best IEEE Students Chapter Award
- Affiliated to Anna University
- State-of-the-art Research Centres by Anna University
- 3-Star Rating - MHRD - IIC Awards
- Received Centre of Excellence from Ashok Leyland

## **ACADEMIC EXCELLENCE**

- Every year Students of Kingston Engineering College secure University Ranks.
- For the Academic Year 2020-2021 (ODD SEMESTER), Out of 816 students, 816 students cleared the semester examination and obtained overall pass percentage of 100 in the April/May 2020 Anna University Examination.
- For the Academic Year 2020-2021 (EVEN SEMESTER), Out of 1061 students, 916 students cleared the semester examination and obtained overall pass percentage of 86.33 in the November/December 2020 Anna University Examination.

## **MoUs SIGNED**

Collaborations between educational institutions and industry can be incredibly beneficial for students, faculty, and the companies involved. It provides students with real-world experience, access to industry professionals, and potentially increases their employability upon graduation.



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This year, we signed a few additional MoUs with the following industries.

- Fact Entry Data Solutions
- Top Freshers Technologies.Pvt.Ltd
- Techfully.Pvt.Ltd
- KAASHIV Infotech

### **STUDENT SCHOLARSHIP**

Scholarship is provided for the students by both Government & Management. During the academic year 2020-2021, out of 1069 students, 369 students got benefited by scholarships and freeships provided by the Government and Non-Government agencies.

### **RESEARCH AND INNOVATION**

The research and innovation efforts of faculties at Kingston Engineering College are integral to our mission of academic excellence and societal impact. Our faculty members are not only dedicated educators but also active contributors to their respective fields of expertise, driving forward the frontiers of knowledge through cutting-edge research and innovative projects.

- Dr.M.M. Ravikumar, Principal & Prof/MECH, published a paper titled “The roles and applications of additive manufacturing in the aerospace and automobile sector” in Materials Today: Proceedings.
- Dr.M.M. Ravikumar, Principal & Prof/MECH, published a paper titled “Tensile and flexural properties of natural fibre matrix composites developed through hand-lay method” in Materials Today: Proceedings.
- Dr. N. Shankar Ganesh, Prof/MECH published a patent on IBAS-VEHICLE: Intelligent-Balancing Advanced Vehicle Structure.
- Mrs. S. Sarah, AP/IT published a patent on ICMN-Object Detection System: Object detection System with Image Classification and Machine/Deep Neural Networks.
- Dr.M.M. Ravikumar, Principal & Prof/MECH, published a paper titled “A review on puncture analysis of polymer composites” in Materials Today: Proceedings.



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- Dr.M.M. Ravikumar, Principal & Prof/MECH, published a paper titled “Diffusion brazing of 321 stainless steel to IN738 using 54Ag-40Cu-5.0Zn-1.0Ni powder-mixture interlayer” in Materials Letters.
- Dr. N. Shankar Ganesh, Prof/MECH, published a paper titled “Performance assessment of a novel power generation system” in IET Renewable Power Generation.
- Dr. N. Shankar Ganesh, Prof/MECH, published a paper titled “A review of conventional and renewable biodiesel production” in Chinese Journal of Chemical Engineering, Elsevier.
- Dr. S.Deepa, Asso. Prof/EEE, published a paper titled “The Mystery curve :A Signal Processing Based Power Quality Disturbance Detection” in IEEE Transaction on Industrial Electronics.
- Dr. N. Shankar Ganesh, Prof/MECH, published a paper titled “Exergoeconomic Analysis of a Novel Zeotropic Mixture Power System” in International Journal of Precision Engineering and Manufacturing-Green Technology.
- Dr. N. Shankar Ganesh, Prof/MECH, published a paper titled ” Performance Investigation in Modified and Improved Augmented Power Generation Kalina Cycle Using Python” in Energy Research.
- Dr. N. Shankar Ganesh, Prof/MECH, published a paper titled “Thermoeconomic Investigation on Advanced Kalina Power Generation System” in Energy Reports.
- Dr.V. Mohanavel, AP/MECH, published a paper titled “Tribological and mechanical properties of Zirconium Di-boride (ZrB<sub>2</sub>) particles reinforced aluminium matrix composites” in International Journal of Materials Today Proceedings.
- Dr.M.M. Ravikumar, Principal & Prof/MECH, published a paper titled “Mechanical and tribological behavior of mg-matrix composites manufactured by stir casting” in International Journal of Vehicle Structures and Systems.



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

Due to the pandemic COVID-19, departments were conducting webinars, guest lectures, and faculty development programs online to motivate engineering staff and students, enhance their abilities, and strengthen the staff in the current trends and technologies. Our faculties participated in Online webinar and AICTE sponsored Faculty development training programs organized by our college. Totally 78 faculties participated in Faculty Development Program, and 35 faculties have been provided financial support to participate in FDPs, Webinar, Seminar, Guest Lecture and Conference in other institution. Department of Mechanical Engineering organized Virtual International Conference on "Advancements in Nanotechnology", in which faculties of other colleges participated through online mode.

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

The faculty members and Students of our college participated in Virtual International Conference on "Advancements in Nanotechnology" focuses on exploring the advancements and applications of nanotechnology across various disciplines, including materials science, engineering, medicine, energy, electronics, and environmental science.

## **ADD ON CERTIFICATE COURSES**

In addition to regular academic courses, each departments provide a variety of value-added courses.

- The Department of Civil Engineering has conducted two value added courses on Advanced Concrete Technology and Application of Soft Computing Techniques.
- The Department of Computer Science and Engineering has conducted two certificate courses on Basics of Machine Learning, Multimedia Technology and Web Application Development.



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- The Department of Electrical and Electronics Engineering has conducted two value added courses on Solar power design, Operation and Installation and Arduino for Beginners.
- The Department of Electronics and Communication Engineering has conducted two Neural Networks and Applications and Machine Learning Techniques.
- The Department of Information Technology has conducted two Android for Mobile App Development and IOT enabled Smart Sensors and its Applications.
- The Department of Mechanical Engineering has conducted two certificate courses on Materials Management and CNC Machines.
- The Department of Management studies has conducted a value-added course on Artificial Intelligence for Investments.
- The Department of Science and Humanities has conducted two value added courses on Quantitative Aptitude for Engineers and Conversational English.

## **PLACEMENT AND TRAINING PROGRAMMES**

The Placement and Training Cell at KEC is dedicated to ensuring that our outgoing students are equipped with the necessary skills, knowledge, and opportunities to secure employment and excel in their chosen careers. With a comprehensive array of programs and services, it plays a pivotal role in bridging the gap between academia and industry, preparing students for the challenges of the professional world.

- A live webinar on the "Skills Required Becoming Software Engineers" was organised by Kingston Engineering College on July 10, 2020.
- On July 10, 2020, Live Webinar on Strategies to Success in Exams and Careers was organised by Kingston Engineering College.
- On July 4, 2021, Live Webinar on "Interview Skills and Resume Preparation" was organised by Kingston College of Engineering.
- On February 28, 2020, Placement and Training Department of Kingston Engineering College conducted a Student Interactive Session on An Overview of Industry 4.0.
- A live webinar titled "Discover Engineer in You" was hosted by Kingston Engineering College on July 16, 2020.





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## **CELLS AND COMMITTEES**

In our college, various cells and committees are established, The Science Club, English Club, Maths Club, Women Empowerment Cell, and R&D Cell have collectively they provide opportunities for students to develop leadership skills, teamwork, and a sense of responsibility. engaged in a myriad of activities, each tailored to their unique objectives.

- Guest Lecture on “Universal Challenge for Gender Discrimination”
- Guest Lecture On “Women Safety and Security”
- Essay writing competition on- Media News on Sexual Harassment- Observe, explain provide solution
- Annual Event of Women Empowerment Cell
- Awareness About Fundamental Legal rights of Women
- Online session on Awareness about Menstrual Safety
- Online session on Awareness about PCOD
- Virtual Session – “Grooming for Excellence in Engineering Profession”
- Webinar – “Peak into the Realm of Engineering”
- AICTE Sponsored International Conference on “Advancements in Nanotechnology”

## **STUDENTS SKILL DEVELOPMENT**

A variety of programmes are offered by our institution to improve students' technical, language, communication, ICT/computing, and life skills.

- A seminar on “Practical Delegation”
- A Seminar on “Personality Development”
- An Awareness Programme” Developing interpersonal skill: a key strategy for effective communication”
- Online course on C programming.
- Stress Management & Sleep with Heartfulness
- Hygiene food for Covid
- Workshop on cyber-Security



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## **LIBRARY**

The library at Kingston Engineering College (KEC) serves as a vital resource hub for our students, faculty, and staff, facilitating academic excellence, research endeavors, and lifelong learning. With its extensive collection of resources, modern amenities, and expert staff support, the library plays a central role in enriching the educational experience of our campus community.

Despite the challenges posed by the COVID-19 pandemic, the library facility at Kingston Engineering College (KEC) remains committed to providing essential resources, services, and support for academic success while prioritizing the health and safety of our campus community.

## **ALUMNI CONTRIBUTION**

- The alumni meet for the year 2020-2021 was successfully held on October 2nd, 2021, via online mode. Despite the challenges posed by the global pandemic, the event brought together alumni from various graduating classes, spanning years of shared memories and experiences at our esteemed institution.
- Alumni had the opportunity to reconnect with old friends, classmates, and faculty members through virtual platforms. The online format allowed for seamless communication and interaction, despite geographical barriers.
- Alumni exchanged contact information and connected on professional networking platforms, fostering a sense of community and support among members of the alumni network.
- The online alumni meet strengthened alumni engagement with the college, reinforcing the bond between past and present members of the community.

## **SPORTS**

Our college offers a wide range of sports facilities and opportunities for students to engage in various activities, including football, cricket, basketball, volleyball, badminton, table tennis, athletics, and more. We have state-of-the-art sports infrastructure, including well-maintained grounds, courts, and equipment, to support our students' sporting endeavors.



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Sports teams at Kingston Engineering College are remarkably talented. Our student, Ms. Ruthya T has won in State level Online Chess Tournament and few teams participated in it.

## **STUDENT PROGRESSION**

The success stories emerging from our college reflect the diverse pathways our students embark upon as they pursue their aspirations and ambitions. Whether flourishing in the corporate world, serving in prestigious government positions, or furthering their academic journey through higher studies, our graduates continue to make meaningful contributions to society. Mr. P. Prem Kumar P cleared TANCET, pursuing his higher studies. Mr. P. Harish cleared his TANCET and pursuing his M.E. Manufacturing Engineering at Thanthai Periyar Government Institute of Technology, Vellore. Mr. T. A. Prathap Kumar is pursuing his Master of Business Administration at ISBR College, Bangalore. Mr. Sharun successfully passed SSC. Ms. V. Priyanka pursuing Master of Business Administration at Vellore Institute of Technology, Vellore. Mr. R. Vishnu pursuing his M.E. ISE at Mepco Schlenk Engineering College, Sivakasi. Ms. K. Lohitha Reddy cleared her AP PGECET conducted by Andhra University for higher studies. Around 206 students got placed in reputed companies. As we celebrate their achievements, we remain committed to providing a supportive and enriching educational environment that empowers students to realize their full potential and excel in their chosen endeavors.

## **CONCLUSION**

In conclusion, the annual report of our esteemed engineering college serves as a testament to our collective dedication, perseverance, and achievements over the past year. As we reflect on the milestones we've reached, the challenges we've overcome, and the opportunities we've seized, it becomes evident that our institution stands at the forefront of innovation and excellence in engineering education.