K. RAMAKRISHNAN COLLEGE OF ENGINEERING

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Accredited by NAAC with "A' Grade | NBA Accredited Departments

DEPARTMENT OF

MECHANICAL ENGINEERING

KRCE Xpress

PERSISTENCE TOWARDS PASSION

Vol. V Issue 11 | Newsletter 2026-27



Together We Engineer The Future

LEADERSHIP MESSAGES

CHAIRMAN MESSAGE

The Department of Mechanical Engineering at K Ramakrishnan College of Engineering is dedicated to shaping innovative and skilled engineers through quality education, practical exposure, and research excellence. The department strives to empower students with technical knowledge, professional ethics, and leadership skills to meet global industrial challenges and contribute effectively to society.



DR. K. RAMAKRISHNAN
CHAIRMAN – KR Group

EXECUTIVE DIRECTOR'S MESSAGE

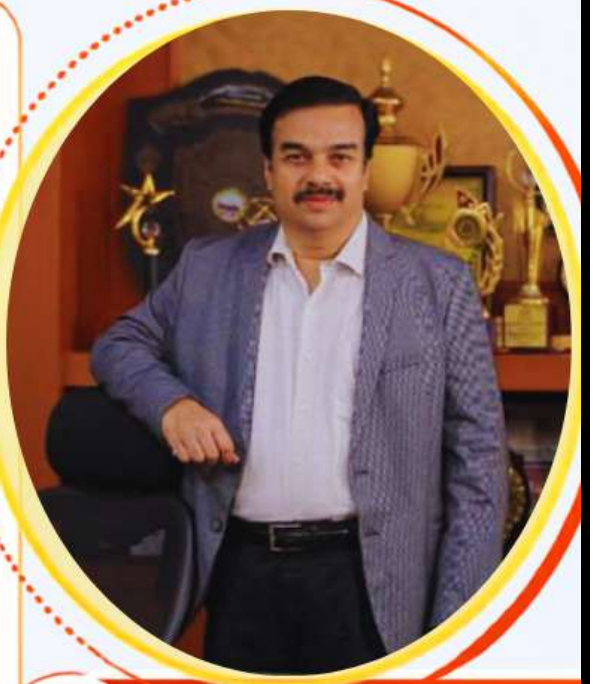


The Department of Mechanical Engineering at K. Ramakrishnan College of Engineering is committed to academic excellence, innovation, and industry-oriented learning. With advanced laboratories, experienced faculty, and a strong research culture, the department prepares students to become competent mechanical engineers with technical expertise, ethical values, and leadership skills to excel in their careers and serve society.

DR. S. KUPPUSAMY
EXECUTIVE DIRECTOR – KR GROUP

LEADERSHIP MESSAGES

PRINCIPAL'S MESSAGE



The Department of Mechanical Engineering at K. Ramakrishnan College of Engineering plays a vital role in shaping technically proficient and innovative engineers. The department focuses on delivering quality education through modern laboratories, experienced faculty, and research-driven learning. It strives to equip students with technical knowledge, practical skills, and ethical values to meet industrial challenges and emerge as successful professionals who contribute meaningfully to society.

DR. D. SRINIVASAN
PRINCIPAL - KRCE

HOD'S MESSAGE



Welcome to the Department of Mechanical Engineering. Our mission is to bridge the gap between academic excellence and industrial requirement. Through our state-of-the-art laboratories and robust industry partnerships, we ensure our students gain the technical proficiency and practical experience necessary for a successful career. We take pride in our commitment to developing disciplined, competent, and ethical professionals who contribute meaningfully to the engineering community and society at large.

Mr. H. Ramakrishnan
HOD / MECHANICAL

DEPARTMENT OF MECHANICAL

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Persistence towards Passion

K. RAMAKRISHNAN COLLEGE OF ENGINEERING

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A magazine is a reflection of the department's achievements, innovations, and aspirations. Through this publication, we celebrate academic excellence, research contributions, student accomplishments, and the collective efforts of our Mechanical Engineering family.

DEPARTMENT OF MECHANICAL ENGINEERING

ABOUT THE INSTITUTION

K. Ramakrishnan College of Engineering (KRCE) is a private autonomous engineering institution established in 2008 near Samayapuram, Tiruchirappalli, affiliated with Anna University and approved by AICTE, with NAAC "A" grade accreditation and NBA accreditation for selected departments; the college offers undergraduate and postgraduate programs including CSE, AI & Data Science, IT, ECE, EEE, Mechanical Engineering, MBA, and M.E., and is known for its decent infrastructure, hostel facilities, digital library, placement training, technical clubs, and industry-oriented activities on its roughly 30-acre campus. KRCE is generally considered a mid-tier but improving engineering college in Tamil Nadu, particularly stronger in CSE/IT-related placements compared to core branches, with recruiters mainly from IT and service companies, while maintaining a comparatively strict academic and attendance system; the institution also promotes research through faculty publications and patents and is viewed as a reasonable option for students seeking affordable engineering education with good placement support in the Trichy region.

VISION & MISSION OF THE COLLEGE

VISION

- **To achieve a prominent position among the top technical institutions**

MISSION

- **To bestow standard technical education par excellence through state of the art infrastructure, competent faculty and high ethical standards.**
- **To nurture research and entrepreneurship skills among the students in cutting edge technologies.**
- **To provide education that can be used as a tool to transform the students.**

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ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in 2008 and currently offers undergraduate and postgraduate programs, namely B.E. Mechanical Engineering and M.E. Engineering Design. The department has an intake of 180 students for UG and 24 students for PG. It is an NBA-accredited department and has been recognized as an Anna University approved research centre with Ph.D. supervisors for both full- time and part-time research scholars. The department achieved NAAC "A" grade accreditation and holds autonomous status from the academic year 2020–2021 onwards. It is also recognized under UGC 2F & 12B status and certified with ISO 9001:2015 and ISO 14000 standards. The department is equipped with ten well-established laboratories along with a state-of-the-art Material Testing Laboratory. It also has advanced facilities such as Turnitin plagiarism detection software and an SAE garage for automotive innovation and student competitions. The faculty members are highly experienced, with an average experience of 8.9 years, and many hold doctoral degrees with strong research publications in reputed journals. The department promotes active student involvement in SAE activities such as BAJA, Auto Sports, Mega ATV, QBDC, SUVC, E-CART, Go-KART, and EFFI-CYCLE competitions. The department focuses on producing competent, ethical, and employable mechanical engineers with strong technical, professional, and soft skills. It aims to prepare graduates who can contribute effectively to industry and society through innovation and engineering excellence.

VISION

- **To provide eminent mechanical engineers to the industries and society through quality education.**

MISSION

- **To impart quality professional education through state-of-the-art infrastructures.**
- **To motivate students and faculty to undertake research and development activities in the thrust areas of mechanical engineering.**
- **To carry out collaborative projects with industries and academics.**

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PROGRAM EDUCATIONAL OBJECTIVES

The PEOs of the programme are

PEO 1: Have a successful career in industry or opt for higher studies/research.

PEO 2: Analyze, synthesize and design mechanical & allied products addressing societal issues.

PEO 3: Exhibit technical expertise, communication skills and teamwork with Professionalism and ethical values.

PROGRAM SPECIFIC OUTCOMES

PSO1: Identify, formulate and solve engineering problems in three core streams of Mechanical Engineering, i.e., design engineering, thermal and fluids engineering and manufacturing engineering.

PSO2: Design, develop, test and implement energy efficient systems for required engineering applications.

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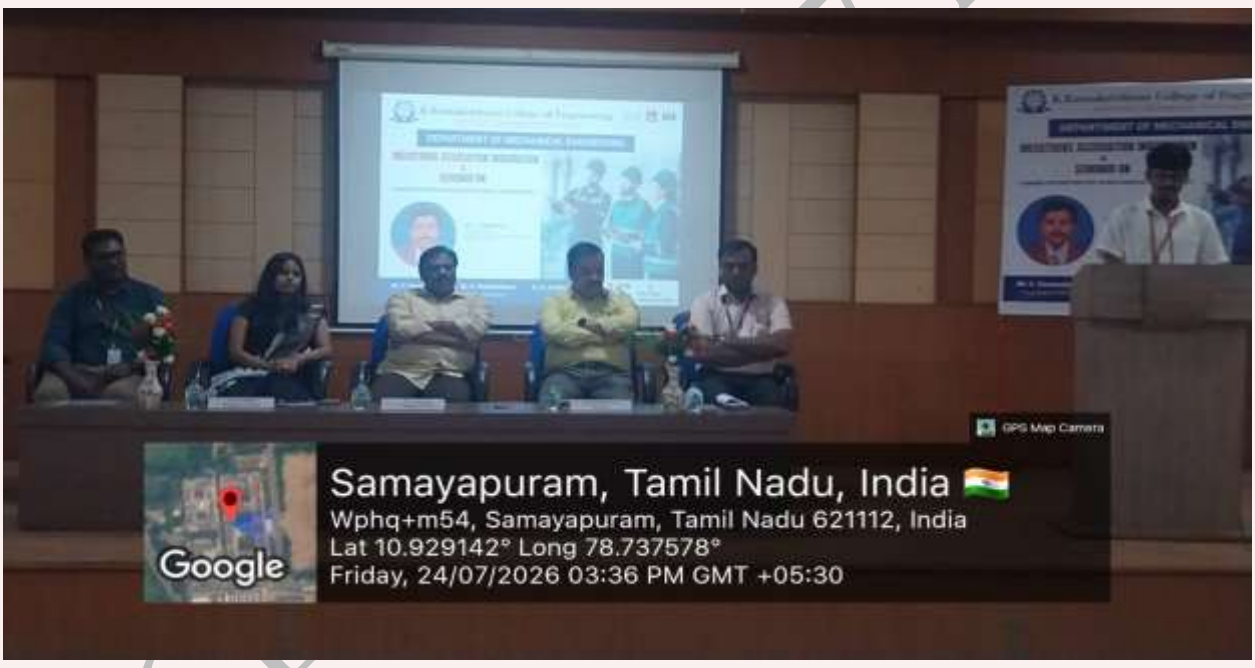
EVENTS ORGANIZED:

The Mecktrons Association of the Department of Mechanical Engineering, established in 2008, was inaugurated for the academic year 2026–2027 on 24 July 2026 (Friday) at K. Ramakrishnan College of Engineering, an Autonomous Institution. The programme began with Tamil Thai Vazhthu and the ceremonial lighting of the lamp by the dignitaries. Dr. H. Ramakrishnan, HoD/Mechanical, delivered the welcome address, followed by the presidential address by Dr. D. Srinivasan, Principal, KRCE. Mr. S. Sivananthan presented the previous academic year's event details and coordinated the programme.



The Chief Guest, Mr. J. Kamaraj, Founder & CEO, Susee Institute of Engineering & Technology, delivered an informative seminar on emerging career opportunities in Mechanical Engineering, including EVs, robotics, automation, aerospace, and green energy. He highlighted the importance of industry-oriented skills, CAD/CAM/CAE tools, resume preparation, and interview techniques. The programme was successfully organized with the generous

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support of the college management. The event details and photographs were shared on the college's social media platforms.

The Department of Mechanical Engineering, in association with the Centre for Faculty Affairs, K. Ramakrishnan College of Engineering (Autonomous), organized a three-day Faculty Development Programme (FDP) titled "Emerging Trends and Innovations in Mechanical Engineering" from 8th to 10th October 2026. The programme was coordinated by Dr. D. Jafrey Daniel James and Mr. M. Manimaran. Industrial experts from reputed organizations, including CONCORD, Ford, REYNA, Ashok Leyland, and Unity Software, delivered insightful sessions on emerging industrial technologies, advanced engineering practices, and AR/VR applications. The programme provided valuable insights into current industry trends and technological innovations, enhancing faculty members' technical knowledge and industry-oriented teaching practices. The event was successfully conducted with the support of the college management.



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The Department of Mechanical Engineering, KRCE, proudly congratulates Dr. S. Sivananthan and Dr. Prakash on the successful completion of their Ph.D. degrees. This remarkable achievement reflects their dedication, perseverance, and commitment to academic excellence and research. We wish them continued success in their academic and professional journeys.



The Department of Mechanical Engineering, KRCE, proudly congratulates all the participating students and faculty members for securing **Second Prize in the March Past Competition** held during the Independence Day Celebration 2026. This achievement reflects their discipline, teamwork, dedication, and patriotic spirit. Heartfelt congratulations to everyone who contributed to this proud moment for the department!



The Department of Mechanical Engineering, K. Ramakrishnan College of Engineering (Autonomous), proudly congratulates all participants on the successful completion of the 24-Hour Hackathon on Sustainable Energy, AR/VR, and Automation, held on 24th and 25th August 2026. The event witnessed enthusiastic participation from 31 teams comprising 120 students from various colleges across Tamil Nadu. The hackathon provided an excellent platform for students to showcase their creativity, technical expertise, teamwork, and problem-solving abilities by developing innovative solutions in sustainable energy,

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immersive technologies, and industrial automation. The dedication, perseverance, and innovative spirit demonstrated by the participants throughout the 24-hour challenge were truly commendable.





The department extends its heartfelt congratulations to all participating students and sincere appreciation to the faculty members for their guidance and support. Special appreciation is extended to Dr. B. Prakash and Dr. S. Sivananthan, the programme coordinators, for their dedicated efforts in planning and successfully organizing the event.

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மாலை மலர்

இந்தியாவின் No.1 மாலை நாளிதழ்

MAALAI MALAR

திருச்சி 26-8-2026 (புதன்கிழமை) 8 பக்கம் ₹ 5 ★★★ | மலர் 49 இதழ் 254

TRICHY 26-8-2026 (WEDNESDAY) 8 PAGES ₹ 5 | VOL: 49 ISSUE: 254



கே.ராமகிருஷ்ணன் பொறியியல் கல்லூரியில்

24 மணி நேர தேசிய ஹேக்கத்தான்

திருச்சி, ஆக.26—

திருச்சி சமயபுரம் கே. ராமகிருஷ்ணன் பொறியியல் கல்லூரி இயந்திரவியல் பொறியியல் துறை சார்பில், "கே.ஆர்.எக்ஸ்ஜென் 26 — தேசிய அளவிலான 24 மணி நேர ஹேக்கத்தான்" நிகழ்வு "தொழில்நுட்பத்தின் மூலம் நிஜ உலக பிரச்சனைகளுக்கு தீர்வு காண்போம்" என்ற கருப்பொருளில் நடைபெற்றது.

இப்போட்டியில் 30 அணிகளை சேர்ந்த 120 மாணவர்கள் பங்கேற்று, நிஜ உலக சவால்களுக்கு புதுமையான தொழில்நுட்ப தீர்வுகளை முன்வைத்தனர்.

தொடக்க விழாவில் கிவிஸ்ட்ரான் நிறுவனை நிறுவனர், நிர்வாக இயக்குனர் முகேஷ்வரன் சிறப்பு விருந்தினராக கலந்து கொண்டு பேசுகையில், புதுமையான சிந்தனைகளை நடைமுறை தீர்வுகளாக மாற்றுவதன் முக்கியத்துவத்தையும், மாணவர்கள் தொழில்நுட்ப, தொழில்முனைவு திறன்களை வளர்த்துக் கொள்ள வேண்டிய அவசியத்தையும் வலியுறுத்தினார்.

நிறைவு விழாவில் கான்கார்ட் ஹெல்மட் அண்ட் சேப்டி புரோடக்ட்ஸ் விஸ்நூனி திவாகர் கலந்து கொண்டு, மாணவர்களின் முயற்சிகளையும் சாதனைகளையும் பாராட்டினார். தொழில்துறையின் தேவைகளுக்கு ஏற்ப தொழில்நுட்ப திறன், புதுமையான சிந்தனை, பிரச்சனை தீர்க்கும் திறனை மாணவர்கள் மேம்படுத்திக் கொள்ள அறிவுறுத்தினார்.

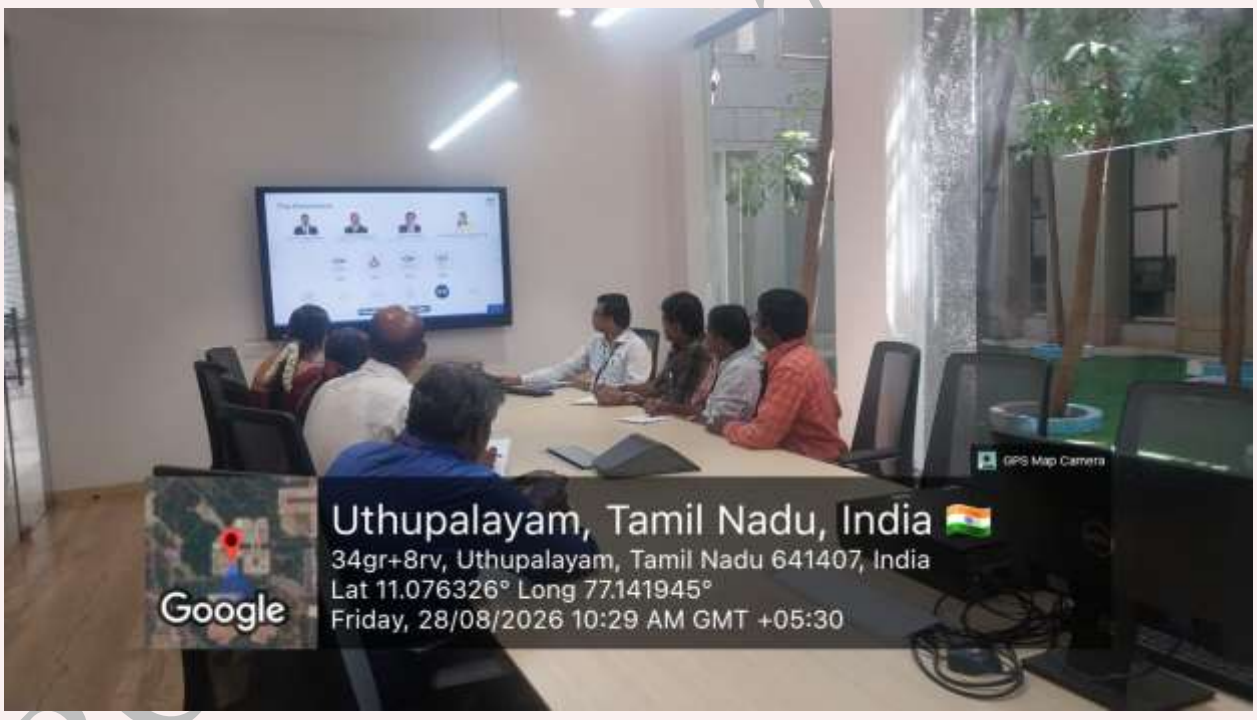
விழாவிற்கு கல்லூரி முதல்வர் சீனிவாசன் தலைமை தாங்கினார். எந்திரவியல் துறை தலைவர் ராமகிருஷ்ணன், மாணவர்களின் குழுப்பணி, தொழில்நுட்ப திறன், நடைமுறை தீர்வுகளை உருவாக்கும் திறனை மேம்படுத்த இந்நிகழ்வு சிறந்த தளமாக அமைந்தது என்றார்.

ஒருங்கிணைப்பாளர்கள் சிவானந்தன், பிரகாஷ் ஆகியோர் நிகழ்ச்சியை ஒருங்கிணைத்தனர். இதில் மாணவர்கள் நிலைநிறுத்தத் தக்க ஆற்றல் தொழில்நுட்பம், மெய்நிகர் தொழில்நுட்பம், தொழில்துறை வளர்ச்சி 5.0, 6.0 மற்றும் வளர்ந்து வரும் தொழில்நுட்ப துறைகளில் மாதிரி படிமங்களை உருவாக்கினர்.

நிகழ்விற்கு கல்லூரி தலைவர் ராமகிருஷ்ணன், செயல் இயக்குனர் குப்பு சாமி, இணை செயலாளர் சரண் குமார், கல்வி விவகாரங்கள் தலைவர் நித்யா ஆகியோர் வழிகாட்டுதல் வழங்கினர். 24 மணி நேரம் நடைபெற்ற இப்போட்டி, மாணவர்கள் தங்களது தீர்வுகளை திட்டமிட்டு செயல்படுத்த சிறந்த வாய்ப்பை வழங்கியது.

வெற்றி பெற்ற அணிகளுக்கு முதல் பரிசாக ரூ.8,000, இரண்டாம் பரிசாக ரூ.6,000, மூன்றாம் பரிசாக ரூ.4,000 வழங்கப்பட்டன. 30 அணிகளை சேர்ந்த 120 மாணவர்கள் பங்கேற்ற இந்த ஹேக்கத்தான், மாணவர்களின் புதுமை, தொழில்நுட்ப திறன், குழுப்பணி, தொழில்முனைவு சிந்தனையை வளர்ப்பதற்கான வெற்றிகரமான தளமாக அமைந்தது.

The department expresses its sincere gratitude to the management of K. Ramakrishnan College of Engineering for their generous support, encouragement, and provision of necessary facilities. The collective efforts of the management, faculty members, coordinators, and participating institutions contributed significantly to the success of this initiative. We wish all participants continued success in their academic pursuits and future innovations, inspiring them to develop sustainable and industry-oriented technological solutions. Congratulations to everyone who contributed to making this hackathon a memorable success!



Dr. K. Lenin and Mr. M. Manimaran visited KPR Institute of Engineering and Technology (KPRIET), Coimbatore, on 28th August 2026 to explore opportunities for collaboration in student placements, Centres of Excellence, infrastructure development, and research and development activities. The visit provided valuable insights into institutional best practices and potential

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avenues for academic and industry collaboration, contributing to the enhancement of departmental activities and student career opportunities.

Mr. S. Raghuvaran and Dr. M. Chrispin Das of the Department of Mechanical Engineering, K. Ramakrishnan College of Engineering (Autonomous), visited various industries to explore placement and internship opportunities for students. The companies visited included Precision Equipments, Rane, Pondicherry, Sisco Energy, and Rishaba Industries. The visits aimed to strengthen industry–institution collaboration and establish meaningful professional connections with industrial organizations.



Discussions focused on identifying suitable employment opportunities for graduating students and providing internships to enhance their practical knowledge and technical skills. The faculty members also explored opportunities for industrial training, project development, and exposure to current manufacturing practices. These interactions are expected to bridge the gap between academic learning and industrial requirements. The initiative reflects the department's commitment to improving student employability and career readiness. The department sincerely appreciates the support and cooperation of the industries visited and looks forward to developing long-term partnerships for the benefit of students.





Congratulations to Our Placed Students!

The Department of Mechanical Engineering, KRCE, proudly congratulates 11 final-year Mechanical Engineering students on securing placements at Sekisui DLJM with an annual package of ₹4 LPA. This achievement reflects their hard work, dedication, and commitment to professional growth. We sincerely appreciate the efforts of the faculty members and the placement team for their continuous guidance and support. We wish all the placed students great success in their careers and a bright future ahead!

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Mr. D. SATHISH
Mr. B. ASWIN
Mr. K. KALAIPRAVEENRAJ
Mr. M. KAMARAJ
Mr. S. VENKATACHALAM
Mr. P. VISHVA
Mr. K. VIGNESH
Mr. K. PRADEEP
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B.E - ELECTRONICS AND COMMUNICATION ENGINEERING
ACCREDITATION PERIOD
1st July 2025 to 31st December 2025
and 1st January 2026 to 31st December 2028
Your dedication, hard work and team effort have made this possible!
Well Done & Keep Shining !!!!!
"ANOTHER MILESTONE OF EXCELLENCE"

Faculty Industrial Visit to TPRS Glass Industry, Pondicherry

Five faculty members from the Department of Mechanical Engineering, K. Ramakrishnan College of Engineering (Autonomous), visited TPRS Glass Industry, Pondicherry, on 29th July 2026. The visit aimed to enhance faculty members' technical knowledge and gain practical insights into industrial processes and manufacturing practices. Discussions focused on strengthening industry–institution collaboration, updating the curriculum in line with current industrial requirements, and exploring placement opportunities for students. The faculty members also explored possibilities for student internships, in-plant training, and industry-oriented projects. The visit provided valuable exposure to industrial practices and emerging technologies, supporting the department's commitment to improving students' technical skills and employability.



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Heartiest Congratulations!

The Department of Mechanical Engineering, K. Ramakrishnan College of Engineering, proudly congratulates CDT Dinesh Sai, a II Year Mechanical Engineering student, for successfully attending the Drone Training Camp organized by 5 TN Air Squadron Tech NCC at Salem, Tamil Nadu. This achievement reflects his enthusiasm for learning emerging technologies, dedication, and commitment to developing technical skills in drone operations. The department appreciates his accomplishment and wishes him continued success in his future endeavours.



The Department of Mechanical Engineering, K. Ramakrishnan College of Engineering, proudly congratulates Mr. Varghese G. T. for developing the ***Controller of Examinations (CoE) software*** *and receiving the Appreciation and Deployment Letter from our Honorable Principal and Respected Controller of Examinations. This achievement highlights his technical expertise, innovation, and commitment to developing practical software solutions for institutional needs. The department appreciates his valuable contribution and wishes him continued success in his future endeavours.*



We extend our warmest congratulations to ***Mr. Varghese G T****, a Final Year Mechanical Engineering student, for his remarkable achievement and technical innovation! Varghese successfully developed and implemented* ***"HallSync – Automated Examination Seating Allotment Software"*** *at* ***Ponniah Higher Secondary School, Tiruchirappalli****.*

Key Highlights of the Project:

- ***Scale:*** *Automated examination seating allocations for* ***over 1,300 students*** *across* ***34 examination halls****.*

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- ***Impact:*** *Drastically reduced manual administrative efforts and streamlined the entire examination process.*
- ***Appreciation:*** *Officially recognized and commended by the school administration and Headmaster, Fr. Geevarghese Mathew, for solving a real-world institutional challenge.*

His initiative, technical prowess, and drive to solve practical problems embody the spirit of innovation we encourage in our department. We are immensely proud of his achievement and wish him continued success in all his future academic and professional endeavors! 👏🎉



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