



C.H. MOHAMMED KOYA

KMEA ENGINEERING COLLEGE

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Mechvoice

Department of Mechanical Engineering
Newsletter: July -December 2021



VISION OF DEPARTMENT

The Mechanical Engineering Department strives to become a premier academic and research centre to mould competent and innovative mechanical engineers and dedicated to the betterment of deprived socio-economic sections of the society.

MISSION OF DEPARTMENT

M1. To offer good quality education & research to create employable mechanical engineering professionals.

M2. To create a society of engineers who are conversant with modern technologies and their applications by emphasising the significance of higher education.

M3. To create a society of engineers who values societal ethics through education gained.

M4. To create an ecosystem that encourages interdisciplinary research and entrepreneurship skills for transforming technical knowledge into socially relevant products and processes

HOD'S MESSAGE



It's my privilege to welcome you to the broadest and oldest department namely Mechanical Engineering. The vision of this department is to be the first choice for the best students and the place of choice for the best faculty. The department has been striving to achieve this vision ever since its inception.

The department offers UG program with an intake of 120 students. We have a strong and dedicated team of faculties specialized in various streams of Mechanical Engineering such as Machine design.

Dr. Bijesh Paul

MOU WITH UNIVERSITI TEKNOLOGI MARA

ചന്ദ്രിക

കെഎംഇഎ എഞ്ചിനീയറിംഗ് കോളേജും മലേഷ്യൻ യൂണിവേഴ്സിറ്റിയുമായി അക്കാദമിക്ക് സഹകരണം

ആലുവ: എട്ടാമത് കെ എം ഇ എ എൻജിനീയറിംഗ് കോളേജിലെ മെക്കാനിക്കൽ വിഭാഗവും അന്താരാഷ്ട്ര ക്യൂഎസ് ഗ്ലോബൽ റാങ്കിംഗിൽ 651 സ്ഥാനമുള്ള യൂണിവേഴ്സിറ്റി ഓഫ് മെക്നോളജി മാറ, മലേഷ്യയുമായി ധാരണപത്രം ഒപ്പുവച്ചു. അക്കാദമിക്, ഗവേഷണം, സ്റ്റുഡന്റ് അപ്ലൈഡ് ടെക്നോളജി പരസ്പര സഹകരണത്തോടെ യുള്ള ശാക്തീകരണത്തിന് ഈ നൽകുന്നതാണ് ഈ ധാരണപത്രം എന്ന് കെ എം ഇ എ എൻജിനീയറിംഗ് കോളേജ് പ്രിൻസിപ്പിൾ ഡോ : അമർ നിഷാദ് അറിയിച്ചു. ഇതുവഴി കെ എം ഇ എ യിലെ മെക്കാനിക്കൽ എൻജിനീയറിംഗ് വിഭാഗത്തിലെ വിദ്യാർത്ഥികൾക്ക് മലേഷ്യയിലെ മാറാ യൂണിവേഴ്സിറ്റിയിൽ അവസാനവർഷം പഠനം പൂർണ്ണമാക്കി അവസരം ലഭിക്കുന്നതാണ്. പരസ്പര സഹകരണവും ധാരണയോടെയും കോൺഫറൻസുകൾ, എഫ് ഡി പി, വെബിനാർ നടത്തുവാൻ ഇതുവഴി സാധിക്കും. യോജിച്ചുള്ള ഗവേഷണാസരണങ്ങൾ ഈ ധാരണപത്രം വഴി തുറക്കും. അക്കാദമിക് ഗവേഷണം അനുബന്ധിച്ചുള്ള അധ്യാപകരുടെ പരസ്പര സഹകരണങ്ങൾക്കും ഇത് അവസരമൊരുക്കും.

അന്താരാഷ്ട്ര അക്കാദമിക് സഹകരണത്തിന്റെ ഭാഗമായി 2018 ൽ മുൻപോൾ യൂണിവേഴ്സിറ്റി ഓഫ് മെക്നോളജിയിലെ നാല് ഗവേഷണവിദ്യാർത്ഥികൾ കെ എം ഇ എ എ എൻജിനീയറിംഗ് കോളേജിലെ മെക്കാനിക്കൽ എൻജിനീയറിംഗ് വിഭാഗത്തിൽ ഡിഗ്രി പരീക്ഷയും പരസ്പര സഹകരണത്തോടുള്ള ഗവേഷണത്തിന് തുടക്കം കുറിക്കുകയും ചെയ്തിരുന്നു.

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The collaboration between the Mechanical Department of KMEA Engineering College and the Universiti Teknologi Mara, Malaysia, as reflected in their Memorandum of Understanding (MoU), signifies a significant stride in fostering academic and research partnerships. This initiative, championed by Dr. Amar Ni Shad, the Principal of KMEA Engineering College, underscores the commitment to mutual collaboration, knowledge exchange, and the empowerment of students and faculty alike. Through this partnership, students from the Mechanical Engineering Department at KMEA will gain invaluable opportunities to undertake their final year projects at Mara University in Malaysia. Such cross-border educational experiences not only enrich their academic journey but also provide a global perspective on mechanical engineering. Furthermore, this collaboration opens avenues for conducting conferences, webinars, and Faculty Development Programs (FDPs), facilitating the exchange of wisdom and understanding among educators. Importantly, it lays the foundation for fruitful research endeavors, allowing teachers from both institutions to engage in collaborative academic research, thereby fostering innovation and advancing the field of mechanical engineering. This MoU exemplifies a commitment to academic excellence, cross-cultural learning, and research synergy that will benefit both institutions and their academic communities.

REMODIFYING RACING CAR

A group of innovative mechanical engineering students from KMEA Engineering College has achieved a remarkable feat by successfully modifying a racing car. Their project, which took place over several months, involved meticulous planning, engineering expertise, and sheer dedication. The students started with a conventional racing car and undertook extensive modifications to enhance its performance, efficiency, and safety features. The modifications included optimizing the car's aerodynamics, upgrading the engine for higher horsepower, enhancing the suspension system, and improving the overall chassis design. Additionally, they incorporated advanced telemetry and data acquisition systems for real-time performance analysis. The result of their efforts was a



remodified racing car that not only performed exceptionally on the track but also served as a testament to the students' skills and determination. This project not only showcased the talent and potential within the Mechanical Engineering Department at KMEA Engineering College but also contributed to the students' practical knowledge and readiness for future endeavors in the automotive industry.

PARTICIPATION IN HACK'KP



Iqbal PB, a dedicated Mechanical Engineering student from KMEA Engineering College, showcased his exceptional talents and commitment to innovation by participating in Hack'KP 21, an event conducted by the Kerala Police. This event served as a platform for tech-savvy individuals like Iqbal to collaborate and develop innovative solutions addressing contemporary law enforcement challenges. Iqbal's participation in Hack'KP 21 reflects not only his academic prowess but also his proactive engagement in real-world problem-solving, bridging the gap between academia and practical application.

During the event, Iqbal PB's skills and creative thinking were put to the test as he worked alongside fellow participants to develop cutting-edge solutions for the Kerala Police. His involvement exemplifies the next generation of engineers who are not only academically accomplished but also socially aware and ready to

contribute to society's well-being. By participating in Hack'KP 21, Iqbal has not only demonstrated his technical acumen but has also showcased the potential for academia-industry collaboration in addressing critical issues faced by law enforcement agencies, further emphasizing the relevance of practical innovation in the field of Mechanical Engineering.

ASSOCIATION DAY



"El Mechrado," the annual association day of the Mechanical Engineering Department at KMEA Engineering College, was celebrated with immense fervor and enthusiasm on [Date]. This much-anticipated event brought together students, faculty, and industry professionals to commemorate the achievements and contributions of the department. The day was marked by a series of engaging activities, including technical presentations, interactive workshops, and insightful panel discussions, all aimed at promoting knowledge sharing and fostering a deeper understanding of mechanical engineering concepts and their real-world applications.

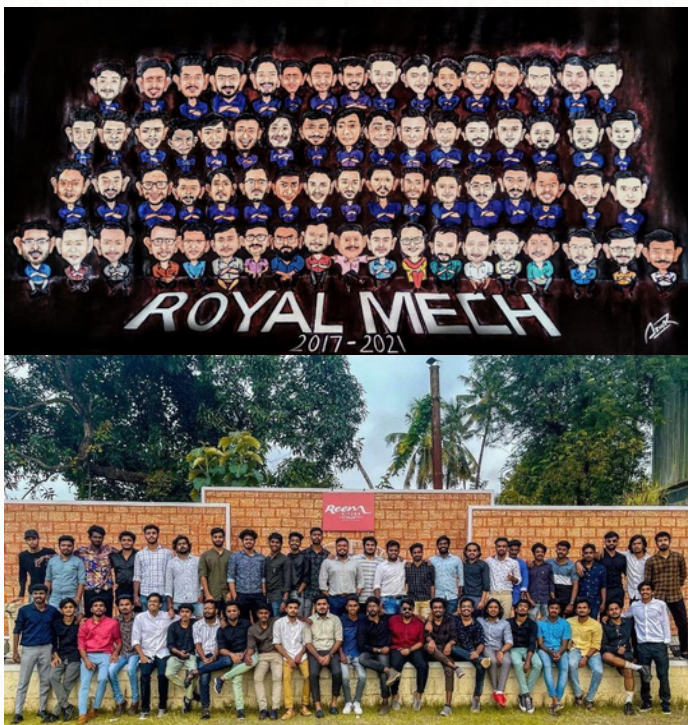
The highlight of El Mechrado was the presence of distinguished guest speakers and experts from the field of mechanical engineering who delivered inspiring talks and shared their valuable insights. This event not

only provided a platform for students to showcase their innovative projects and research but also facilitated networking opportunities with industry leaders. Through its engaging and informative activities, El Mechrado served as a testament to the dedication and passion of the Mechanical Engineering Department at KMEA Engineering College in nurturing the next generation of mechanical engineers and fostering academic and industry collaborations. The event was a resounding success, leaving attendees inspired and motivated to pursue excellence in the field of mechanical engineering.

ARME EXECOM



FAREWELL



The Fifth Semester students of the Mechanical Engineering Department at KMEA Engineering College organized a heartfelt and memorable farewell event, bidding farewell to their seniors with great enthusiasm and camaraderie. The event, held on [Date], was a culmination of their years of bonding, shared experiences, and academic journey together. It was a vibrant and emotional evening filled with a mix of emotions, laughter, and nostalgia.

The farewell event commenced with a warm welcome speech by one of the organizing students, expressing gratitude and appreciation for the guidance and mentorship received from their senior batch. It was followed by a series of entertaining performances, including dance, music, and skits, showcasing the diverse talents of the students. The highlight of the evening was the heartwarming speeches delivered by senior students, who shared their experiences and offered valuable advice to their juniors. Tokens of appreciation and mementos were also exchanged, symbolizing the passing of the baton from one generation of

Mechanical Engineers to the next. The event concluded with a sumptuous dinner, providing a final opportunity for everyone to relish the bonds they had forged over the years. Overall, the farewell was a touching and memorable event that celebrated the enduring camaraderie among the students of the Mechanical Engineering Department at KMEA Engineering College, marking the end of one chapter and the beginning of another in their academic and personal lives.

TECH NEWS

1. **5G Rollout:** The expansion of 5G networks continued in 2022, with more regions and countries adopting this technology for faster and more reliable wireless communication.
2. **Artificial Intelligence:** AI and machine learning applications continued to grow across various industries, from healthcare and finance to autonomous vehicles and smart home devices.
3. **Metaverse and Virtual Reality (VR):** The concept of the metaverse gained traction, with companies like Facebook (now Meta) heavily investing in VR and AR technologies for creating immersive digital experiences.
4. **Cybersecurity:** With the increasing frequency and sophistication of cyberattacks, cybersecurity remained a top concern for businesses and individuals.
5. **Quantum Computing:** Progress in quantum computing research and development continued, potentially paving the way for significant breakthroughs in solving complex problems.
6. **Electric and Autonomous Vehicles:** The electric vehicle market continued to expand, and autonomous vehicle technology advanced, with more companies testing and deploying self-driving vehicles.

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