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Department Of Mechanical Engineering



CCE DIGEST

STAFF EDITOR

MR. REYNOLD JOSE, A.P; M.E

STUDENT EDITOR

Govardhan T (S4 ME)

VISION

To become a nationally recognised knowledge hub in Mechanical Engineering by moulding professionally competent and socially responsible engineers.

MISSION

To create a conducive learning platform for students to excel as professionals, through quality technical education and training.

To involve students in socially committed projects and programs to broaden their knowledge and integrity.
To mould students with good leadership qualities, ethical values, and life-long learning.

HOD's DESK

Dear Students,

It gives me immense pleasure to present Volume 4, Issue 2 of the CCE Digest, which captures yet another vibrant phase in the journey of the Department of Mechanical Engineering. The activities featured in this issue reflect the department's unwavering commitment to providing holistic engineering education through technical learning, innovation, entrepreneurship, industrial exposure, and social responsibility.

The successful organization of programmes such as the Engineers' Day Celebration, Battle Bytes, FORGE DIMENSION, HATCH-PITCH 1.0, and the CraftSphere Startup Launch demonstrates the enthusiasm and creativity of our students in embracing emerging technologies and entrepreneurial opportunities. The industrial visits to L&F Machineries and KEAM TECH provided valuable practical exposure, enabling students to bridge the gap between classroom concepts and industrial practices. Equally commendable is the THANAL community outreach initiative, which reflects the compassion, empathy, and social commitment that every engineer should uphold alongside technical competence.

I sincerely appreciate the dedicated efforts of our faculty members, student associations, and organizing committees in making these initiatives a remarkable success. Such activities enrich the academic experience, nurture leadership qualities, and prepare our students to face the challenges of an ever-evolving engineering profession with confidence and integrity. I encourage every student to continue exploring new ideas, participating actively in technical and co-curricular activities, and striving for excellence in all endeavours. Let this edition of CCE Digest serve as a reminder that engineering is not merely about acquiring technical knowledge, but about applying it creatively and responsibly for the betterment of society.

With best regards,
Head of the Department

Engineers' Day Celebration

On 15 September 2023, the ASME CCE Student Chapter, Department of Mechanical Engineering, Christ College of Engineering, organized the Engineers' Day Celebration to commemorate the contributions of engineers to society and to inspire future engineering professionals. The programme brought together engineering students from various disciplines and featured a series of engaging activities, including technical quizzes, hands-on workshops, and expert sessions, promoting interdisciplinary collaboration and technical learning. The celebration provided participants with valuable insights into the role of engineering in addressing real-world challenges while encouraging innovation, teamwork, and professional excellence. The event served as a meaningful platform to strengthen the engineering spirit among students and reaffirmed the institution's commitment to nurturing competent and socially responsible engineers.

Battle Bytes – Quiz Competition

On 15 September 2023, the ASME CCE Student Chapter, Department of Mechanical Engineering, Christ College of Engineering, organized Battle Bytes, a technical quiz competition, at the Conference Hall, St. Mary's Block, as part of the Engineers' Day celebrations. The competition witnessed the enthusiastic participation of more than 60 engineering students from various disciplines, providing an engaging platform to test their technical knowledge, problem-solving abilities, and teamwork. The event featured a comprehensive quiz covering multiple engineering domains, followed by a tiebreaker round to determine the top-performing teams. Neil Aldrin (S7 ME) and Noel Joseph (S7 ME) served as the event coordinators, with valuable support from the ASME student members in ensuring the smooth conduct of the programme. Certificates of appreciation were presented to the winning teams, while all participants received e-certificates. The competition successfully promoted technical excellence, interdisciplinary interaction, and healthy academic competition, making it a memorable highlight of the Engineers' Day celebrations.



FORGE DIMENSION – Hands-on Workshop

On 15 September 2023, the ASME CCE Student Chapter, Department of Mechanical Engineering, Christ College of Engineering, organized FORGE DIMENSION, a hands-on workshop, at the CADD Lab, St. Chavara Block as part of the Engineers' Day celebrations. The workshop was conducted by Jain Jejo (S7 ME) and was attended by engineering students eager to gain practical exposure to modern design and manufacturing technologies. Participants were introduced to the fundamentals of Autodesk Fusion 360, including 2D sketching, 3D modelling, design tools, and constraints, followed by an exploration of 3D printing technology, covering printer components, operating principles, and essential printing parameters. A live 3D printing demonstration provided participants with firsthand experience of transforming digital models into physical prototypes. The workshop received an enthusiastic response from participants for its interactive, hands-on approach and successfully enhanced their technical skills, creativity, and understanding of advanced digital manufacturing technologies, reflecting the ASME Student Chapter's commitment to fostering innovation and engineering excellence.



HATCH-PITCH 1.0 – Idea Pitching Competition

On 13 November 2023, the Department of Mechanical Engineering, Christ College of Engineering, in association with the IEDC CCE, organized HATCH-PITCH 1.0, an intercollegiate idea pitching competition, at Christ Hall and the Conference Hall. The event attracted the participation of 15 teams from various colleges, providing a vibrant platform for aspiring innovators to showcase creative solutions to real-world challenges. The programme commenced with an insightful session on effective pitching by Mr. Suryajith Menon, COO, IEDC CCE, followed by an inaugural address by Dr. Sijo M. T., HOD, Dept. of Mechanical Engineering. Teams were assigned problem statements through a random selection process and were given ninety minutes to develop and present their innovative ideas. The presentations were evaluated by a distinguished panel comprising Dr. Vince Paul A., HOD, Dept. of CSE, Mr. Vivek C. Ravi, Asst. Professor, Dept. of ME, and Mr. Ajeesh S., Asst. Professor, Dept. of ECE. Following an interactive presentation and question-and-answer session, the winners were felicitated by Rev. Fr. John Paliakara, Executive Director, and Dr. Sajeev John, Principal. As the department's first idea pitching competition, HATCH-PITCH 1.0 successfully fostered innovation, entrepreneurship, and creative problem-solving, inspiring participants to transform innovative ideas into practical solutions.



GEAR UP – 24 Hours to Learn, Build & Bond

On 15 March 2024, the Department of Mechanical Engineering, Christ College of Engineering, organized an industrial visit to L&F Machineries, Chemmunda, for the 2021–2025 B.Tech Mechanical Engineering batch. The visit was accompanied by Dr. Arun Augustine, Associate Professor, Dept. of ME, and Mr. Sanal K., Asst. Professor, Dept. of ME, who guided the students throughout the programme. During the visit, participants were introduced to advanced machinery manufacturing processes, modern production technologies, and quality control practices adopted in the industry. Students were divided into groups to facilitate detailed observation of the manufacturing facilities and interact with industry professionals, gaining firsthand exposure to industrial operations and technological advancements. The visit successfully bridged the gap between classroom learning and industrial practice by providing valuable insights into contemporary manufacturing techniques, quality assurance systems, and the practical applications of mechanical engineering concepts, thereby strengthening industry-academia interaction and enhancing students' professional readiness.



CraftSphere Startup Launch

On 17 November 2023, the Department of Mechanical Engineering, Christ College of Engineering, officially launched CraftSphere, a student startup, during Maschinen Fest '23 at the Conference Hall. The programme was organized to promote innovation, entrepreneurship, and startup culture among engineering students by providing a platform to transform creative ideas into sustainable business ventures. The startup was established under the Technology Business Incubator (TBI), Christ College of Engineering, and subsequently received Udyam Registration from the Ministry of Micro, Small and Medium Enterprises (MSME), Government of India, as a Micro Enterprise. Operating in the domain of architectural and engineering activities, technical testing, and consultancy, CraftSphere marks a significant milestone in the department's efforts to encourage student-led innovation and entrepreneurship. The launch highlighted the institution's commitment to fostering an entrepreneurial ecosystem and empowering students to develop industry-oriented solutions with commercial potential.

THANAL – Community Outreach Initiative

On 30 October 2023, as part of Maschinen Fest '23', the Department of Mechanical Engineering, Christ College of Engineering, organized THANAL, a community outreach initiative, at Ashanilayam – School for Mentally Challenged Children. The programme was conducted by the S5 B.Tech Mechanical Engineering students with the objective of promoting social responsibility, empathy, and community engagement. As part of the initiative, the students donated the proceeds from the sale of nearly 200 handcrafted bulbs, prepared under the guidance of Ms. Reshma, Asst. Professor, Dept. of Physics, to support the activities of Ashanilayam. During the visit, the students actively interacted with the children through songs, dance, games, drawing, painting, and paper craft activities, creating a joyful and inclusive environment. The programme provided a meaningful learning experience for the students while bringing happiness to the children, reflecting the department's commitment to nurturing socially responsible engineers. The initiative was successfully carried out with the guidance of Mr. Roshan, Asst. Professor, Dept. of Mechanical Engineering, and the support of the college management.



Industrial Visit to KEAM TECH

On 15 March 2024, the Department of Mechanical Engineering, Christ College of Engineering, organized an industrial visit to KEAM TECH, Porathissery, for the 2021–2025 B.Tech Mechanical Engineering batch. The visit was accompanied by Dr. Arun Augustine, Associate Professor, Dept. of ME, and Mr. Sanal K., Asst. Professor, Dept. of ME, who guided the students throughout the programme. The visit focused on Electrical Discharge Machining (EDM), providing participants with practical exposure to one of the most advanced non-traditional machining processes used in modern manufacturing. Students were divided into groups to explore the facility, observe EDM equipment and related manufacturing processes, and interact with industry professionals to gain insights into industrial practices and technological advancements. The visit successfully complemented classroom learning by offering firsthand experience of advanced manufacturing technologies, enhancing students' understanding of EDM applications, industrial operations, and the practical aspects of precision engineering while strengthening industry-academia collaboration.

