



**C. ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**News Letter**

**ACADEMIC YEAR: 2024 – 2025 - Even Semester)**

**Volume 1**

**Issue 1**

**Vision**

Be a nationally recognized mechanical engineering department.



**Mission**

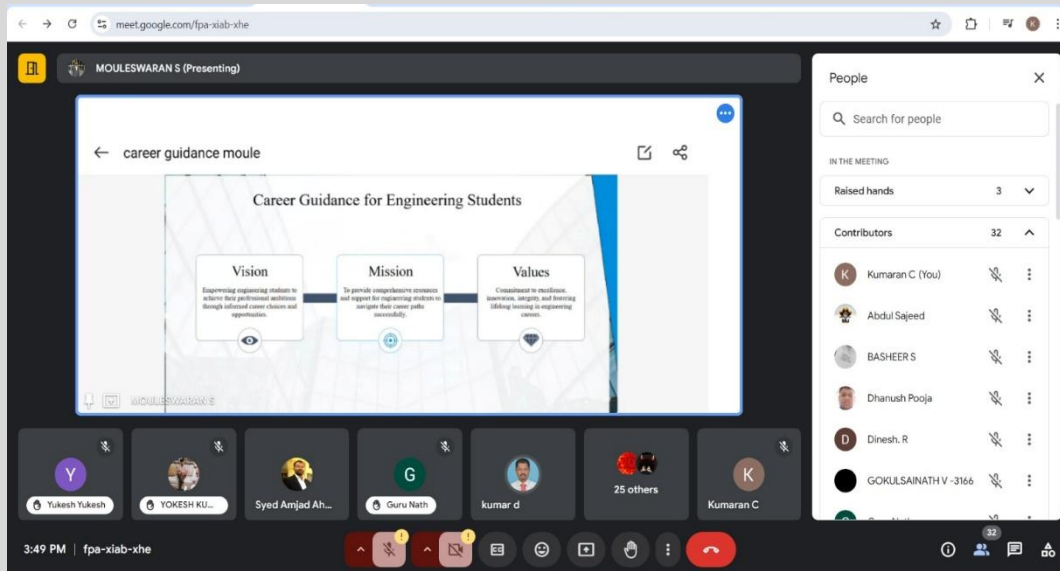
<b>M1</b>	<b>To impart quality technical education through vigorous teaching-learning activities.</b>
<b>M2</b>	<b>To inspire students for continuous learning through advanced education.</b>
<b>M3</b>	<b>To nurture students to evolve as social leaders through societal and entrepreneurial activities.</b>

**Program Educational Objectives (PEO's)**

<b>The graduates of mechanical engineering will:</b>	
<b>PEO 1</b>	<b>Have a successful professional career in domain specific and / or related fields.</b>
<b>PEO 2</b>	<b>Succeed in pursuit of higher studies.</b>
<b>PEO 3</b>	<b>Endeavor for advancement of society through entrepreneurship</b>

**Program Specific Outcomes (PSO's)**

<b>The graduates of mechanical engineering will be able to:</b>	
<b>PSO 1</b>	<b>Design and analyze mechanical system(s) using CAE tools.</b>
<b>PSO 2</b>	<b>Explore alternate high-performance materials for engineering industry.</b>



## Editorial Board

**Dr. D. Kumar, Ph. D.,**  
Professor  
Head of the Department

**Mr. C. Kumaran, M.E.,**  
Assistant Professor

Vignesh Kumar S  
IV Year Mech

Mohammed Sufiyan H  
III Year Mech

**Praveen Kumar E**  
II Year Mech

Mr. I. Rajkumar in Association with IE(I) Organized Online Career Guidance Programme on "Opportunities for Mechanical Aspirants in MNCs" for Students of II, III, and IV Year Mechanical Engineering on 08.03.2025.



Mr. R. Uma  
Mageshwaran  
Organized E-Quiz  
on "Hydraulics and  
Pneumatics" on the  
Occasion of  
National Science  
Day Celebration for  
the Students of II, III,  
and IV Year  
Mechanical  
Engineering On  
28.02.2025.

## Funding Proposal

Dr. D. Kumar, Dr. K.S. Ashraff Ali Submitted a Proposal for One Week Physical Mode ATAL FDP to AICTE for a worth of Rs. 3.5 Lakhs on 28.03.2025.

Mr. I. Rajkumar and Mr. T. Sankar submitted a Funding Proposal for Organizing Conference on "Advances in Mechanical Sciences" to Tamil Nadu State Council for Science and Technology (TANSCST), Chennai on 03.03.2025.



### Placement Activities

17 Students of Final Year Mechanical Engineering got Placed as "Graduate Apprentice" in Turbo Energy Pvt. Ltd., Sholinghur on 11.03.2025 through Campus Placement Drive Organized by PAT Office. Mr. Z. A. Amjath Coordinated the Drive.

### IIC Activities

#### Republic Day Celebrations

CAHCET Celebrated Republic Day on 26.01.2025. Mr. Ragu, Sub Inspector, Arcot, Alumni of Mechanical Engineering was the Chief Guest.

#### Online Courses Completed

K. VIGNESH successfully completed the One-Month Internship in Data Analytics from 24.02.2025 to 26.03.2025 at NoviTech R&D Private Limited, Coimbatore – 641009.

K. VIGNESH successfully completed the 30 Days Master Class in Data Analytics from 24.02.2025 to 03.04.2025 conducted by NoviTech R&D Private Limited, Coimbatore - 641009.

K. VIGNESH has successfully completed the 2-hour Boot Camp in Artificial Intelligence on 01.01.2025 conducted by NoviTech R&D Private Limited, Coimbatore - 641009.

K. Vignesh has successfully attended the Mastering Data Science: A Journey from Fresher to GenAI Expert conducted by Innomatics Research Labs, Hyderabad Telangana - 500085 on 18.01.2025.

K. VIGNESH has successfully completed Foundations: Data, Data, Everywhere an online non-credit course authorized by Google and offered through Coursera on 13.03.2025.

Mr. K. VIGNESH has successfully Completed the one-month internship in Artificial Intelligence at NoviTech R&D Private Limited from June 15th to July 15th 2025.

Mr. K. VIGNESH has successfully Completed the one-month internship in Machine Learning at NoviTech R&D Private Limited from July 16th to August 16th 2025.

## Co-Curricular Activities

Suriya M, Yukeshwar G, Vishnu S & Issac Inbaraj V of II Year Mech Presented a Paper Titled "Mechanical Properties of Hybrid Polymer Composites" and Secured Second Place in FORGE 2025, 21st National Conference on Recent Trends in Mechanical Engineering organized at Department of Mechanical Engineering, Arunai Engineering College, Tiruvannamalai on 09.04.2025.

Dhanush S of IV Year Mech Participated in CADD Modelling and Secured First Place in FORGE 2025, 21st National Conference on Recent Trends in Mechanical Engineering organized at Department of Mechanical Engineering, Arunai Engineering College, Tiruvannamalai on 09.04.2025.

## Extra-Curricular Activities

Ashok S from III Year Mech Won Second Position in Cricket in the Anna University Zonal Tournaments 2024-2025 held at C. Abdul Hakeem College of Engineering and Technology from 30.09.2025 To 03.10.2025.

Balaji H from II Year Mech Won First Position in Badminton in the Anna University Zonal Tournaments 2024-2025 held at C. Abdul Hakeem College of Engineering and Technology on 18.09.2025.

## Achievements of Faculty Members

Dr. K. S. Ashraff Ali, Mechanical, ECE Students Fabricated IOT Experimental Kits - 06 Nos. for the Mechatronics Lab of Mechanical Engineering Department during December 2024.

Dr. D. Kumar Defined and Disseminated the Roles and Responsibilities of Student Affairs Section of Academic wing of C. Abdul Hakeem College of Engineering and Technology on 30.12.2024.

Dr. D. Kumar, Mr. Z. A. Amjath. Dr. R. Senthil, Mr. R. Nirmal Kumar Presented Career Guidance Programme at various Schools of Ranipet, Vellore and Tiruppur Districts during January 2025.

Dr. D. Kumar Organized to Sign MOU between the Department of Mechanical Engineering, C. Abdul Hakeem College of Engineering and Technology, Melvisharam and GSHEPH Technologies, Vellore on 06.01.2025.

Dr. D. Kumar was Appointed as Governing Council Member of C. Abdul Hakeem College of Engineering and Technology, Melvisharam for a period of One Year from January 2025.

Dr. Syed Amjad Ahmed was Appointed as Governing Council Member of C. Abdul Hakeem College of Engineering and Technology, Melvisharam for a period of One Year from January 2025.

Dr. D. Kumar Purchased Memento (Pen Stand) 25 Nos. for Career Guidance Programme worth of Rs. 6500/- on 20.01.2025.

Dr. D. Kumar Mr. I. Rajkumar Purchased Machineries, Equipments, Raw Materials for EPL of Department of Mechanical Engineering, C. Abdul Hakeem College of Engineering and Technology for a worth of Rs. 45,599/- on 20.01.2025.

Dr. D. Kumar Mr, I. Rajkumar Purchased Machineries, Equipments, Raw Materials for EPL of Department of Mechanical Engineering, C. Abdul Hakeem College of Engineering and Technology for a worth of Rs. 45,599/- on 20.01.2025.

Dr. Abdul Hakim Javid Participated in NPTEL Workshop organized by Coordinator, NPTEL, IIT Madras at Terrace Hall, IIT Madras on 08.02.2025.

Dr. D. Kumar Attended Industrial Visit to MKK Metals Section, Nellikuppam, Ranipet organized by the IEI, RLC on 13.03.2025.

Dr. Syed Amjad Ahmed Organized Awareness Program on ISO 21001 to the Faculty Members of C. Abdul Hakeem College of Engineering and Technology on 13.02.2025.

Mr. R. Senthil was Awarded Doctorate Degree from the Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai - 600073 on 21.02.2025.

Dr. D. Kumar Submitted NBA Pre-Qualifier of the Department of Mechanical Engineering on 21.02.2025.

Dr. D. Kumar Organized Motivational Speech by Governing Council Members to the Faculty Members of C. Abdul Hakeem College of Engineering and Technology on 11.02.2025.

Mr. R, Uma Mageshwaran Presented a Paper Titled "Experimental Investigation and Analysis of Mechanical Properties of Hybrid Polymer Composites" in 5th National Virtual Conference on Recent Advances in Technology and Engineering, Vemu Institute of Technology (Autonomous), Chittoor, Andhra Pradesh, India organized from 27.02.2025 to 28.02.2025.

Dr. D. Kumar Presented Achievements from November to February and Action Plan for Even Sem 2024-2025 to the Correspondent, C. Abdul Hakeem College of Engineering and Technology on 28.02.2025.

Mr. R. Senthil Participated in One Day Zonal Level (Seminar) Orientation Training Programme for YRC Programme Officers Sponsored by Indian Red Cross Society, Tamil Nadu Branch, Conducted by YRC Anna University (Chennai Region) at TAG Auditorium, CEG Campus, Anna University, Chennai on 04.03.2025.

Mr. R. Senthil and Mr. R. Nirmal Kumar Collected Movie Amount Rs. 1000/- from Mechanical Students for Awareness Program "Playing a Film on Achievement of Students and Self-Confidence in Girls" on 04.03.2025.

Dr. D. Kumar, Dr. Syed Amjad Ahmed, C. Kumaran and Dr. V. M. Abdul Hakim Javid Submitted A Paper to International Journal for Publication on 06.03.2025.

Dr. K. S. Ashraff Ali Serviced Electronics related equipments in Mechatronics Lab of Mechanical Engineering Department with a Service Charge of Rs. 7000/- on 10.03.2025.

Dr. D. Kumar and Exam cell coordinators conducted a Meeting for Department Test Coordinators and briefed the Arrangements to conduct the Internal Assessment Exams Centrally on 07.03.2025.



Mr. R. Nirmal Kumar Serviced Starter Motor of Fiat Engine of Thermal Lab with a Service Charge and Spares of Rs. 3000/- on 07.03.2025.

Dr. D. Kumar and Mr. I. Rajkumar along with the Lab Incharges, Completed the Service of CAD Lab, Fluid Mechanics Lab, Thermal Lab, Heat Transfer Lab, Metrology and Measurements Lab, Dynamics Lab, Mechatronics Lab, Engineering Practices Lab and of Mechanical Engineering Department on 10.03.2025.

Dr. D. Kumar completed the Shifting of Labs, Department Library and Store Room from I Floor and II Floor to Ground Floor of Department of Mechanical Engineering and handed over to First Year on 10.03.2025.

Dr. D. Kumar and Mr. Z. A. Amjath Organized Campus Placement Drive by Turbo Energy Pvt. Ltd, Sholinghur for Final Year Students of Mechanical Engineering on 10.03.2025.

Dr. D. Kumar arranged to create three staff cabins in HOD Room and shifted the Mechanical Department faculty from Staff Room 2 and handed over the Staff Room 2 to S&H Department on 11.03.2025.

Dr. D. Kumar, Mr. Z.A. Amjath, Dr. R. Senthil, Mr. R. Nirmal Kumar, Mr. I. Rajkumar, Dr. K. S. Ashraff Ali, and Mr. R. Uma Mageshwaran Distributed the Pamphlets of Uyarkalvi Vazhikatti Programme to Schools of Ranipet, Vellore, Tiruppattur Districts on 12.03.2025 to 21.03.2025.

Dr. D. Kumar, Mr. Z. A. Amjath Organized HODs Meeting and conveyed the duties and Responsibilities of HODs and Faculty Members related to the conduct of Uyarkalvi Vazhikatti Programme on 13.03.2025.

Mr. T. Sankar Participated in Six days ATAL Online FDP on Advanced Materials, Rare Earth & Critical Minerals organized by Governmaent College of Engineering, Bargur from 17.02.2025 to 22.02.2025.

Dr. D. Kumar, Dr. Syed Amjad Ahmed, Mr. I. Rajkumar, Mr. T. Sankar, Dr. K. S. Ashraff Ali, Mr. N. Thirugnanasambanthan, Mr. C. Kumaran, Mr. R. Uma Mageshwaran, Mr. R. Senthil, Mr. R. Nirmal Kumar, Dr. V. M. Abdul Hakim Javid, Mr. Z. A. Amjath, Participated in FEP on "Advanced Pedagogy in Education and Research" organized by Faculty Affairs Section of C. Abdul Hakeem College of Engineering and Technology from 03.02.2025 to 09.02.2025.

Mr. N. Thirugnanasambanthan Participated in Six days ATAL Online FDP on "Innovation in Manufacturing: Bridging Academia and Industry 4.0 In a Virtual Environment" organized by St Joseph's College of Engineering on 20.01.2025 to 25.02.2025.

Mr. R. Nirmal Kumar Completed FDP on "Product Conceptualization and Prototyping" organized by Tamil Nadu Skill Development Corporation, Government of Tamil Nadu Naan Mudhalvan Programme at Anna University on 10.02.2025.

Dr. D. Kumar, Mr. C. Kumaran Submitted a Proposal for Add on Course on SolidWorks Software for III Year Students to be conducted with Internal Resource Person at Department of Mechanical Engineering, C. Abdul Hakeem College of Engineering and Technology Starting from 12.04.2025.

Mr. R. Uma Mageshwaran Completed Eight Weeks NPTEL AICTE FDP Course on "Nature and Properties of Materials" organized by NPTEL, IIT Madras from January to March 2025.

Dr. K. S. Ashraff Ali Attended Research Advisory Committee Meeting of Research Scholar Mr. G. Surendar at Department of Mechanical Engineering, VELS Institute of Science and Technology & Advanced Studies (VISTAS), Pallavaram, Chennai on 08.04.2025.

Dr. D. Kumar and Z. A. Amjath Organized Uyarkalvi Vazhikaatti Programme a Career Guidance Programme for School Students at CAHCET Auditorium, C. Abdul Hakeem College of Engineering and Technology, Melvisharam on 05.04.2025. More than 1500 Students and Parents from various Schools participated in the Programme.

Mr. N. Thirugnanasambanthan and Dr. V. M. Abdul Hakim Javid Organized Industrial Visit to K. H. Leather Exports India Private Limited, Melvisharam on 25.04.2025. 22 Students of III Year Mech participated in the visit.

Dr. V. M. Abdul Hakim Javid and Mr. I. Rajkumar Organized Guest Lecture on Industry 4.0 Technologies for Proactive Industrial Safety and Regulatory Compliance on 24.04.2025. 22 Students from III Year Mech, 11 Students from III Year Civil and 22 Students from III Year EEE.

Dr. V. M. Abdul Hakim Javid Organized Project Expo 2025 on 05.05.2025. 21 Students from IV Year Mech participated in the Expo.

Dr. D. Kumar, Dr. K. S. Ashraff Ali, Mr. R. Nirmal Kumar and Dr. R. Senthil Conducted Parents Meeting for the Students of Mechanical Engineering Department. 48 Students from IV Year, III Year and II Year Mech attended the meeting with their parents.

Dr. D. Kumar Published a Journal Paper on Mechanical and tribological properties of bovine hoof powder reinforced polyurethane composites, Journal of Ecological Engineering, 26 (7), 2025 with an Impact Factor of 1.3.

Dr. Syed Amjad Ahmed Published a Journal Paper on Response of the Air Flow Energy Harvester with Two Side by Side Bluff Bodies with Various Shape in Journal of Ecological Engineering 26(4), 2025, 238-249 with an Impact Factor of 1.3.

Dr. K. S. Ashraff Ali Published a Journal Paper on Effect of continuous fiber reinforcement on mechanical and tribological characteristics of cellulose and human hair fiber polymer composites, Results Engineering, 25 (104480), 2025, 1-12 with an Impact Factor of 6.2.

Dr. V.M. Abdul Hakim Javid Published a Journal Paper on Impact of nano additives on lubricant performance under real-operating conditions: Engine performance study and wear analysis, Journal of Nano Materials, Nano Engineering & Nano Systems, 2025, with an Impact factor of 3.8.

Dr. R. Senthil Published a Journal Paper on Tribological wear optimization of ALN strengthened with AA2024 composites through Taguchi technique, Revista Materia, 2025, with an Impact Factor of 0.5.

Mr. T. Sankar Published a Journal Paper on Effect of process parameters on tribological properties of AA8079-ZrB<sub>2</sub> composite via Taguchi technique, Surface Review & Letters, 2025 with an Impact factor of 1.35.

Z. A. Amjath Published a Journal Paper on Machine Learning-Based Prediction of Surface Characteristics and Tool Wear in Mg-AZ91D Milling under Distinct Condition, Surface Review & Letters, 2025, with an Impact factor of 1.35.

Dr. D. Kumar Completed 12 Weeks NPTEL AICTE FDP on "Surface Engineering for Corrosion and Wear Resistance Application" from January - April 2025.

Dr. R. Senthil Completed 08 Weeks NPTEL AICTE FDP on Mechatronics from February - April 2025.

Dr. Abdul Hakim Javid Completed 08 Weeks NPTEL AICTE FDP on Introduction to Machining and Machining Fluids from January - March 2025.

Mr. R. Uma Mageshwaran Completed Twelve Weeks NPTEL AICTE FDP on "Oil Hydraulics and Pneumatics" from January To April 2025.