



ABES
Engineering College

Estd. 2000

College Code-032



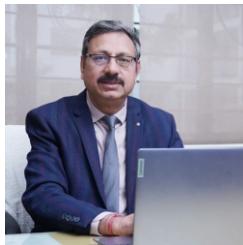
CRESCE

**Department of
Mechanical
Engineering**

2024-25 Odd Sem. | Volume 9, Issue I



Message from Director



Crescent as the most enhancing aspect for team motivation and healthy work culture. Since many ages every functional department always disseminates information through a medium which shows the downpour of relevant progress for a particular department. We always feel elated when we ring the bells of our achievements among our peers. Our institute has always levied huge stress on all the aspects of research for the growth of its employees in all the domains of life. Excelling in the field of research is yet another persuasion which has brought the magnificent results in the field of research publications, patent filing & publishing and industrial consultancy for our conglomerate.

Wishing more coming successful editions in this regard and all the very best for my ME team in achieving more heights.

Prof. (Dr.) Devendra Kr. Sharma

Message from HOD

On behalf of all our faculty, staff and students, I present this newsletter "crescent" which shows our department prowess and enable us to further keep striving for the best. Crescent broadcasts the information of Mechanical Engineering and showcases the hidden talents of the students and staff. It encloses the activities such as FDP, conferences attended and paper published in International and National journals by faculty members and competitions won by the students and innovative projects carried out by them. I, take this opportunity to thank all the stakeholders for showing interest and continuous support. I extend my best wishes to all students in their chosen career path and I am sure the department will scale up to greater heights in the years to come and serve many more in the society.



Prof. (Dr.) Ravi Shankar Raman

Message from Editor



Mayank Kushwaha
Sr. Assistant Professor (ME)



Dr. Pragya Sharma
Assistant Professor (ME)

"Dear Readers,

It is with great pleasure that we present to you the latest edition of our bi-annual newsletter. This issue highlights the achievements, innovations, and experiences of our faculty, students, and alumni.

We are proud to showcase the department's progress, research endeavours, and community engagement. This newsletter is a testament to the hard work, dedication, and passion of our mechanical engineering family.

We hope you enjoy reading about our department's journey and accomplishments. Your feedback and suggestions are always welcome.

Thank you for your continued support.

Best regards, Department of Mechanical Engineering



Vision

To create globally competent mechanical engineers capable of working in an interdisciplinary environment, contributing to society through innovation, entrepreneurship and leadership.

Mission

M1:To provide excellent teaching learning environment.
M2: To create supportive surroundings for innovative research, and develop capabilities to analyze interdisciplinary engineering problems.
M3:To inculcate ethical values and leadership qualities to produce successful professionals.
M4:To promote Industry-Institute relationship.

Program Educational Objectives (PEOs)

PEO1: To apply basic science and engineering knowledge, critical thinking across the disciplines, and emerging areas of Mechanical Engineering for higher studies, research, and employability and to handle the real-life problems.

PEO2: To inculcate communication skills, ethical conduct, and understand legal and cultural aspects to serve the society.

PEO3: To develop managerial skills, team spirit, leadership qualities, and engage in lifelong learning for a successful professional career.

PEO4: To strengthen their ability to adopt technological changes for developing innovative and sustainable solutions considering health, safety and environmental aspects.

PROGRAMME OUTCOMES (POs)

I. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods

including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

Mechanical Engineering Program at ABESEC will be able to:

PSO1: Empower the students to apply their practical skills, knowledge in major streams such as thermal, design, manufacturing and industrial engineering.

PSO2: Prepare the students for building their career in different industries or pursue higher studies in mechanical engineering and make them able to handle interdisciplinary problems with values and professional ethics.



PUBLICATION DETAILS

- ❖ Abhishek Saxena, Sustainable Power Flow: Voltage Distribution, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201136>
- ❖ Abhishek Saxena, Comparative Study Dynamics Analysis of a Multi-story Building with and without a Floating Column, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201133>
- ❖ Abhishek Saxena, Experimental Investigation into the Impact of Substituting Natural Sand with Manufactured Sand in Landfill Construction, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201130>
- ❖ Abhishek Saxena, Hybrid Wind-Solar System with UPQC, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201127>
- ❖ Abhishek Saxena, Agricultural By-products: Optimizing Production of Activated Carbon using the Taguchi Method, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201124>
- ❖ Abhishek Saxena, Species Sensitivity Distributions: Understanding Ocean Acidification's Impact on Marine Biota, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201059>
- ❖ Abhishek Saxena, Biomedical Materials for Sustainable Wound, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201060>
- ❖ Abhishek Saxena, Comparative Impact of Wind and Photovoltaic Energy Integration on Isolated Microgrid Self-Sufficiency and Load Management, IEEE, 45496, 979-8-3503-6684-6, <http://dx.doi.org/10.1109/IC3SE62002.2024.10593349>
- ❖ Abhishek Saxena, Strategic Coordination of Electric Vehicle Aggregation and Wind Power for Grid Stability and Traffic Optimization, IEEE, 45496, 979-8-3503-6684-6, <https://doi.org/10.1109/IC3SE62002.2024.10593564>
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- ❖ Abhishek Saxena, Integrating Advanced Machine Learning for Stable Real-Time Electricity Pricing in Smart Grids, IEEE, 45496, 979-8-3503-6684-6, <https://doi.org/10.1109/IC3SE62002.2024.10593099>
- ❖ Abhishek Saxena, Enhancing Virtual Power Plant Dynamics with Renewable Energy and Storage for Improved Distributed Generation, IEEE, 45496, 979-8-3503-6684-6, <https://doi.org/10.1109/IC3SE62002.2024.10593291>
- ❖ Abhishek Saxena, Enhancing Electric Vehicle Charging with Dynamic Adaptation: A Machine Learning Approach to Improving Grid Alignment Precision, IEEE, 45496, 979-8-3503-6684-6, <https://doi.org/10.1109/IC3SE62002.2024.10593543>
- ❖ Ravi Shankar Raman, A Review on Innovations in Soil Remediation Techniques Using Machine Learning, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201134>
- ❖ Ravi Shankar Raman, Comparative Analysis of Various Bracing Configurations and Their Impact on Elevated Water Tank Performance, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201131>
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- ❖ Ravi Shankar Raman, From Forests to Oceans: Exploring the Interconnected Influences of Climate Change on Ecosystems, Communities, and the Path to Sustainability, E3S Web of Conferences, 45496, 2267-1242, <https://doi.org/10.1051/e3sconf/202455201064>
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- ❖ Ravi Shankar Raman, Investigating the Role of Compact Neural Networks in Improving Near-Field Beamforming Techniques, IEEE, 45496, 2380-7504, <https://doi.org/10.1109/IC3SE62002.2024.10593300>
- ❖ Ravi Shankar Raman, Enhancing Voltage Stability and DG Penetration in Smart Grids Through a Modified Genetic Algorithm Approach for Optimal Reactive Power Planning, IEEE, 45496, 2380-7504, <https://doi.org/10.1109/IC3SE62002.2024.10593081>
- ❖ Ravi Shankar Raman, Optimizing Vehicle-to-Grid Integration with Novel Energy Management Strategies and Battery Cost Considerations for Enhanced Microgrid Operations, IEEE, 45496, 2380-7504, <https://doi.org/10.1109/IC3SE62002.2024.10593409>
- ❖ Manoj Kumar, Evaluation of Indian Railway's Supply Chain Parameters for Improved Sustainability Under Industry 4.0 Transformation: An Application of AHP and TOPSIS, ENGINEERING MANAGEMENT JOURNAL, Taylor and Francis, 45505, 2267-1242, <https://doi.org/10.1080/10429247.2024.2375166>
- ❖ Mohit Bansal, Utilizing Machine Learning-Based Algorithms to Predict Student's Future, Springer, 45508, 978-981-97-3809-0, https://doi.org/10.1007/978-981-97-3810-6_36
- ❖ Rahul Verma, Mechanical and viscoelastic properties of dental composites reinforced with silicon dioxide nanoparticles, Materials Science and Engineering Technology, Wiley, 45518, 1521-4052, <http://doi.org/10.1002/mawe.202300420>
- ❖ Naman Jain, Failure prediction of geared mechanism at multiple gearshift configuration by utilizing the experimental design and integer programming method, International Journal on Interactive Design and Manufacturing (IJIDeM), Springer, 45543, 1955-2513, <https://doi.org/10.1007/s12008-024-02093-6>
- ❖ Naman Jain, Design and Fabrication of Industrial Pick and Place Delta Robot, , Springer, 45557, 978-981-97-7122-6, https://doi.org/10.1007/978-981-97-7123-3_18
- ❖ Kaushlendra Pandey, Facile growth of Cu₂ZnSn(SSe)4 thin films with controlled phase and microstructure evolution from green ethanol-based molecular solutions, Journal of Materials Science: Materials in Electronics , Springer, 45569, 0957-4522, <https://doi.org/10.1007/s10854-024-13628-8>
- ❖ Pradeep Sharma, Blockchain Embraces Supply Chain Optimization by Enhancing Transparency and Traceability from Production to Delivery, IEEE, 45540, 979-8-3503-8427-7, <https://doi.org/10.1109/TQCEBT59414.2024.1054530>
- ❖ Manoj Kumar, Investigation and Characterization of Novel Aluminium Matrix Composites Enhanced by Recycled Borosilicate Glass, Journal of Inorganic and Organometallic Polymers and Materials, Springer, 45597, 1574-1451, <https://doi.org/10.1007/s10904-024-03466-w>
- ❖ Naman Jain, Effect of Sintering Temperature on the Physical and Mechanical Characteristics of Fabricated ZrO₂-Cr-Ni-Ce-Y Composite, Journal of Composites Science, MDPI, 45597, 2504-477X, <http://dx.doi.org/10.3390/jcs8110446>
- ❖ Naman Jain, Atomistic-Scale Simulations on Grain Boundary Migration Mechanisms Involved in Metals and Alloys: A Critical Review, Archives of Computational Methods in Engineering, Springer, 45601, 1134-3060, <https://doi.org/10.1007/s11831-024-10201-8>
- ❖ Manoj Kumar, Novel Application of Alumina Nanoparticle-enriched Cutting Fluid for the Surface Integrity and Machining of 17-4PH Steel, Current Nanomaterials, Bentham Science, 45628, 2405-4615, <https://doi.org/10.2174/0124054615333986241004114240>
- ❖ Manoj Kumar, Review of Advancements and Future Directions in the Fabrication of Microchannel Heat Sinks for Electronic Cooling, Micro and Nano systems, Bentham Science, 45656, 1876-4029, <https://doi.org/10.2174/0118764029349253241209063510>



STUDENT PUBLICATIONS

- ❖ Daksh Tyagi, Sourav Singh, Yogendra Meena, "Design and fabrication considerations for battery-operated vehicles: A review", AIP Conference Proceedings 2024, International conference on circular economy and sustainable development (ICCESD 2024), (Accepted)
- ❖ Mritunjay Gupta, Paritosh Singh, Ritesh, "Overview of plastic oil blended biofuel for its sustainability aspects", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)
- ❖ Deepak Kumar Yadav, Jay Singh, Aryan Varshnay, "Design and development of cascade refrigeration test rig", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)
- ❖ Deepak Kumar Yadav, Jay Singh, Aryan Varshnay, "Review of cascade refrigeration system", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)
- ❖ Ashu, Kavyansh Sharma, Devansh Jangid, "Design and development of vapour absorption refrigeration test rig", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)
- ❖ Praveen Kumar, Sahil Sirohi, Shrey Vashistha, "A review of supply chain issues in the manufacturing sector using the application of AHP", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)
- ❖ Naman Joshi, Malesh Raghuvanshi, Anurag Sharma, "Data-Driven Analysis and prediction of weld bead geometry in A-TIG welding", CRC press, Book chapter, (Accepted)
- ❖ Piyush Kushwaha, Jatin Kumar, Dhruv Ajit, "Design and fabrication of industrial pick place delta robot", Springer Nature, Book chapter, 22, Sept. 2024, ISBN:978-981-97-7123-3, https://doi.org/10.1007/978-981-97-7123-3_18
- ❖ Ayush, Ankit Kumar, Deepanshu Tripathi, "A comparative experimental analysis on performance of simple VCRS and VCRS with dedicated mechanical sub-cooling", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)
- ❖ Ashish Kumar Tiwari, Amit Agarwal, Alok Yadav, "Design and fabrication of multipurpose trolley: A review", Scopus proceedings, LNME series of Springer nature, 4th biennial international conference on future learning aspects of mechanical engineering (FLAME 2024), (Accepted)

PATENT

Date of Filing	Inventors Name	Branch	Product Name	Status
16/8/2024	Mr. Mayank Kushwaha, Manjeet Chaudhary, Adarsh Saxena, Devesh Kumar, Deepak Kumar	ME	SOLAR WATER DISTILLATION SYSTEM	Published
12/7/2024	Dr. Naman Jain, Piyush Kushwaha, Jatin Kumar, Abhinav Chauhan, Dhruv Ajit	ME	DEVICE FOR PERFORMING PICK AND PLACE OF OBJECTS	Published



MoU

Memorandum of Understanding (MoU) has been signed between ABES Engineering College, Ghaziabad, and The Forum of Critical Utility Services (FOCUS), which was hosted by the Department of Mechanical Engineering on September 17, 2024.

The MoU was delivered and signed on behalf of ABES Engineering College, Ghaziabad, by (Dr.) R. S. Raman (HoD ME) and Mr. Kanagaraj Ganesan (President) FOCUS in the presence of Mr. Mohit Bansal, Mr. Anoop Pandey (Head, Orbit) from ABES Engineering College, Ghaziabad

Objectives of this MOU are:

- ♦ To establish a collaborative framework for conducting joint research activities in critical utility services.
- ♦ To promote the exchange of knowledge, expertise, and resources between ABES EC and FOCUS.
- ♦ To facilitate the organization of seminars, workshops, and conferences on topics of mutual interest in online/offline mode.

To provide research assistance to ABES EC from FOCUS, specifically focusing on the following areas:

- ❖ Technical Expertise: FOCUS will provide specialized technical expertise in areas relevant to critical utility services, including but not limited to energy management, infrastructure resilience, HVAC and other relevant areas
- ❖ Grant Projects: FOCUS and ABES EC will collaborate on identifying and securing grants from government agencies, foundations, and other funding sources to support joint research initiatives.
- ❖ International Collaboration: Facilitate international collaboration by fostering partnerships with organizations and institutions abroad, enhancing the global reach and impact of research initiatives.
- ❖ Skill Development Training: Provide training programs for students and teaching faculties to enhance their technical competencies and research capabilities.
- ❖ Networking Opportunities: Create networking opportunities for students and teaching faculties to interact with industry experts, researchers, and professionals in critical utility services.



Memorandum of Understanding (MoU) has been signed between ABES Engineering College, Ghaziabad, and PJMT (Prem Jain Memorial Trust), which the Department of Mechanical Engineering on September 11, 2024.

The MoU was delivered and signed on behalf of ABES Engineering College, Ghaziabad, by (Dr.) R. S. Raman (HoD ME) and by Mr. Anuj Gupta (Founder D20 Learning) on Behalf of Ms. Payal Jain, Founder Trustee, Prem Jain Memorial Trust in the presence of Mr. Mohit Bansal, Mr. Arpan Patra, Programme Associate (CEEW) & Mr. Yatendra Malik from PJMT

Objectives of this MOU are:

- PJMT and ABES have joined hands as Organizations keen to work together, share knowledge, and help Students learn from Industry experts from both organizations.
- PJMT & ABES to exchange information on the latest research & development in Sustainability that are of common interest to students and jointly work in conducting programs to benefit the student body in the space of Environment and Sustainability.
- Impart education, increase interaction, and encourage enhancement and exchange of ideas between Students, industry leaders, and working professionals, facilitating their exposure to new Green concepts led by Global Industry champions.
- Providing Technical Lectures, Webinars, and Panel discussions with industry leaders on thought-provoking debates.



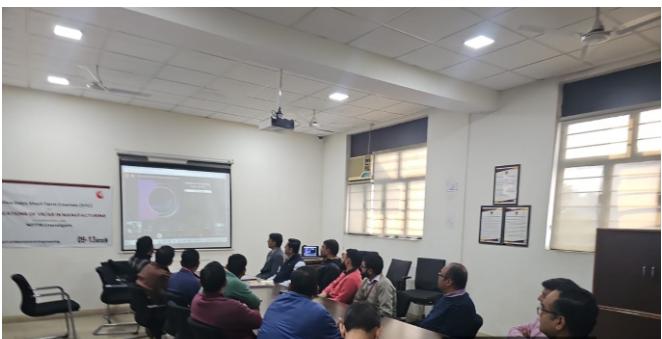
PREM JAIN MEMORIAL TRUST



STTP conducted

Short Term Training Program (STTP)

Department of Mechanical Engineering organized an **STTP in ICT mode on the "Application of AR/VR System in Manufacturing"** in association with NITTTR Chandigarh for the duration 09th Dec to 13th Dec 2024.



Webinar / Guest Lecture conducted

Guest lecture on

"Air Pollution & Sustainable Construction" on September 11, 2024, as part of the PJMT Green Building Week 2024. Our esteemed speakers, Mr. Arpan Patra (Programme Associate, Council on Energy, Environment & Water (CEEW)) and Mr. Anuj Gupta (Co-Founder of D2O Learning), shared valuable insights on the topic with the Mechanical Engineering students.

Audience: Students of Mechanical Engineering

Convenor: Prof. (Dr.) R.S. Raman (Head ME)

Co-ordinator: Mr. Mohit Bansal (Assistant Professor)



FDPs / Symposiums attended

- ❖ Mr. Manabendra Saha participated in the 3rd International Symposium on "Sustainable fibres and Polymeric Materials" held on 25th October 2024 organized by King Mongkut's University of Technology North Bangkok
- ❖ Mr. Anoop Pandey participated in the one-week faculty development program on "Writing an Effective Research Paper" from 15th to 19th November 2024 conducted by Indian Institute of Industrial and Social Research.
- ❖ Dr. Kaushlendra Pandey participated in the International Symposium on "Recent Trends of Applied Mathematics in Science and Engineering" held on 22nd November 2024 organized by Department of Applied Sciences & Humanities ABES Engineering College, Ghaziabad, Uttar Pradesh, India.
- ❖ Mr. Manish Mangal successfully completed an FDP course on "Accreditation and Outcome Based Learning" conducted by NPTEL for the duration August–October 2024.
- ❖ Dr. Rahul Verma successfully completed an FDP course on "Accreditation and Outcome Based Learning" conducted by NPTEL for the duration August–October 2024.

Parent Teacher Meeting (PTM)

Department of Mechanical Engineering, ABES Engineering College, Ghaziabad organized a Parent-Teacher Meeting on 11th December, 2024. The meeting brought together the parents of first-year (ME) students along with the faculty members of the ME department.

During the meeting, following important points were discussed:

- ❖ Informing parents about the various initiatives undertaken by the ME Department to enhance student performance.
- ❖ Reviewing the attendance records of students.
- ❖ Assessing the performance of students in the first & second sessional.
- ❖ Exploring strategies to support and enhance student performance.

PL & Co-ordinator:

Dr. Abhishek Saxena (PL- 1st Year) Dr. Neha Singh (Coordinator - 1st Year) Convener: Prof. (Dr.) R. S. Raman (HOD-ME)



Sign in - ORCID
<https://orcid.org/signin>

People

Add people

Contributors

- Abhishek Saxena (You) Meeting host
- Abhishek Saxena Meeting host
- Aditi Tyagi
- Azim Khan
- Makhlesh Devi
- Neeraj Baswan

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Fresher's Party

"NavTarang- A New Vibe" (Aaghaz-e-Jashn), the fresher's party for ME First year students was organised on 18th October 2024.

The Title winners at the event were:

Mr. Fresher :	Nischay Arora	Ms. Fresher :	Sakshi Vishwakarma
Mr. Handsome :	Kartikey Raina	Ms. Beautiful :	Mysha khan
Best Performer :	Karan Kumar	Fitness Freak :	Aniket Yadav



Students' Achievements

- ❖ CII Majestic (Skill Will Lead) Season 5

Our student teams from department of mechanical engineering performed brilliantly in aforementioned inter college competition organized by CII and Majestic. In the competition held between 8th to 16th October 2024, 5 teams from our institution participated, and bagged 2 second positions and 2 third positions. Students won total cash prize of ₹60,000. Mentored and coordinated by: Mr. Anoop Pandey & Mr. Ankur Dixit



Akanksha

Paid Internship



@ Stipend: ₹15,000/-

Batch 2020-24



Siddharth Sarkar



Piyush Kushwaha

1st
Position
with prize of
\$800



Mr. Mohit Bansal
Faculty (ME) & SBA ASHRAE
Mentor

in RAL Student Competition for Subregion.

Batch 2020-24



- ❖ Student Achievement - First prize of \$ 800 USD in International ASHRAE RAL Quiz

In an exceptional achievement, one of our ASHRAE ABES student branch members, Mr. Piyush Kushwaha secured the top prize in the highly competitive 2024 RAL Student Competition for Subregion II!

This distinguished competition, led by Dr. Samir Traboulsi (Chair) and Dr. Yash Shukla (Vice Chair), drew participation from a vast and talented pool of students across a wide geographical range. Students from Sri Lanka, Bangladesh, Africa, the Middle East, and Pakistan competed alongside their peers, making the victory even more significant. We are immensely proud to have Mr. Mohit Bansal, SBA ASHRAE, as ABES's coordinator faculty, guiding and mentoring our students throughout this challenging competition. His valuable insights and support undoubtedly played a pivotal role in Piyush's remarkable achievement.

Congratulations once again to Piyush! Not only has he earned the prestigious title of first-place winner, but he has also been awarded a well-deserved prize of \$800. We look forward to his continued success.

Adding to the excitement, we are delighted to share that Piyush has also been invited to attend the CRC (Chapter Regional Conference) at Udaipur in September!

MECHNOPIHLA (MINDS IN MOTION)

The Mechnophila Club, department of Mechanical Engineering, ABES Engineering College, Ghaziabad organized Know Your Department 2.0 and an alumni talk by **Mr. Arpit Mani Tripathi, Engineer, Grey Orange (Batch- 2018 - 2022)** on **12th December, 2024**.

About the Event: "Know Your Department" is an exciting event aimed at introducing first-year students to the various laboratories within the Mechanical Engineering Department. Organized by Mechnophilia, the technical club of the department, this event offers an immersive experience for students to gain insight into the practical aspects of their field of study.

Objectives:

1. To introduce first-year students to the state-of-the-art facilities and equipment available in our department laboratories.
 2. To provide students with practical insights into the diverse fields and applications of mechanical engineering through interactive demonstrations and hands-on activities.
 3. To encourage collaboration, teamwork, and networking among students through group-based exploration of laboratories.
 4. To empower students with the knowledge and resources necessary to make informed decisions about their academic and professional pursuits within the field of mechanical engineering.

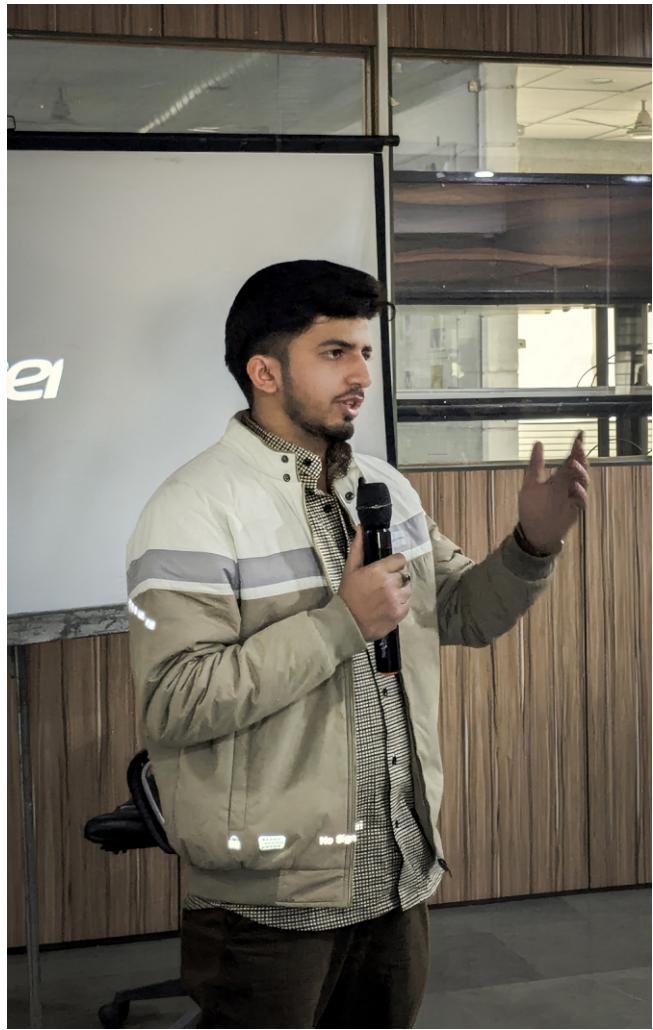
Outcomes:

"Know Your Department" was an enriching and enlightening experience for first-year students, offering them a glimpse into the vast and dynamic world of mechanical engineering. Through guided laboratory tours, interactive sessions, and hands-on activities, the aim to inspire our budding engineers with passion for innovation, discovery, and excellence has been fulfilled. The main attraction of the event was the Interaction with Ex- BAJA Buggy XSR with Detailed Description and live working.

Convenor(s): Prof. (Dr.) R.S. Raman, Head ME **Mr. Anoop Pandey, In-charge, Orbit Department**

Faculty Coordinators:

Mr. Ankur Dixit, Mr. Manish Mangal, Assistant Professor, ME, Mr. Rahul Khanna, Research Engineer, Orbit



MECHNOPHILA (MINDS IN MOTION)

New members in the family

"A warm welcome to our new colleague!"

We are delighted to announce that four faculty members have joined our Department of Mechanical Engineering. With their expertise and skills, we are confident that they will strengthen our team and be an inspiration to our students.

We wish them all the best for their new tenure and look forward to working together to take the department to new heights."



Dr. Kaushlendra Pandey



Dr. Pragya Sharma



Dr. Raushan Kumar



Dr. Shivanku Chauhan

Higher Education

"Heartiest Congratulations!"

We extend our warmest congratulations to **Dr. Abhishek Saxena**, Assistant Professor of our department on completing his Ph.D.! This is a significant achievement and we are proud of his hard work.



Promotions

"Heartiest Congratulations!"

We extend our warmest congratulations to **Dr. Ravi Shankar Raman** on his promotion to Professor, and **Dr. Naman Jain** to Associate professor! This is a testament to their hard work, dedication, and outstanding contributions. We are proud to have them as part of our department and their expertise benefits our students greatly.



Dr. Ravi Shankar Raman



Dr. Naman Jain

Alumni Achievement



Mr. Ashutosh Tiwari

DSP Chandauli, UP Police

ME - Batch 2014



Mr. Abhinav Saxena

Assistant Audit Officer

Comptroller Audit General of India (CAG), Gol

ME - Batch 2017

Our Patrons

Chief Patron

Sh. Neeraj Goel

Chairman

Sh. Shashwat Goel

General Secretary

Patrons

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Accredited by NAAC

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National Ranking
in Innovation

ABES Engineering College

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