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Volume 3: Issue 01 (July to December 2023)

D**EPARTMENTAL NEWSLETTER - CHEMICAL ENGINEERING**

VOLUME-3, Issue-01 **(JULY - DECEMBER 202**3**)**

Academic Year 2023**-2**4

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Editorial Team

Student Editor: Mr. Prashant Chaudhary

Faculty Editor: Prof. Nitish D. Galande

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Vision of the Chemical Engineering Department:

"Produce employable graduates through a multidisciplinary approach, equipping them with chemical engineering knowledge and research skills, for the welfare of society."

Mission of the Department

M1: Impart knowledge and understanding of the diverse fields of chemical engineering profession through curriculum.
M2: Develop chemical engineering professional and research skills to become technically competent professionals.
M3: Inculcate the importance of social and life-long learning.

Program Educational Objectives (PEOs)

PEO1: Graduates of the program will apply chemical engineering principles in engineering practice.
PEO2: Graduates of the program will have technical or professional careers in chemical engineering or in the diverse fields of chemical engineering such as biochemical engineering, energy and environmental engineering etc.
PEO3: Pursue higher study and / or continuously upgrade the knowledge with Personal and professional growth for collective advancement of society.

Programme specific outcomes (PSOs)

POS1: Create Chemical Engineering solutions for problems and processes while taking into account separation operations, reaction kinetics, environmental issues, and waste treatment and, modelling and simulation.

PSO 2: Foster the industrial chemical production process through efficient design and modifications by applying the principles of Chemical Engineering.

PSO 3: Demonstrate responsible professional behaviour by integrating ethical considerations, promoting safety, communicating effectively, and engaging in lifelong learning for societal and Environmental well-being.

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Program Outcomes (POs) as per NBA

Program Outcomes (POs) are as follows:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, and engineering fundamentals to solve complex chemical engineering problems.
2. **Problem Analysis:** Identify, formulate, and analyze complex engineering problems to reach substantiated conclusions using principles of mathematics, natural sciences, and engineering sciences.
3. **Design/Development of Solutions:** Design solutions for complex engineering problems that meet specified needs with appropriate consideration for public health, safety, and environmental concerns**.**
4. **Investigation of Complex Problems:** Conduct research-based investigations, including designing experiments, analyzing data, and synthesizing information to provide valid conclusions.
5. **Modern Tool Usage:** Select, apply, and adapt appropriate techniques, resources, and modern engineering tools, including prediction and modeling, to solve complex engineering activities.
6. **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal, and cultural issues relevant to professional engineering practice.
7. **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics, 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 society at large through reports, presentations, and documentation.

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11. **Project Management and Finance:** Demonstrate knowledge of engineering and management principles to manage projects in multidisciplinary environments.
12. **Life-long Learning:** Recognize the need for, and engage in, independent and lifelong learning in the broadest context of technological change.

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Message from the Principal (Dr. Pramod Patil)

Dear Readers,

It is my great pleasure to present **Volume 3, Issue 1** of the Departmental Newsletter for **July–December 2023**. This newsletter serves as a reflection of the department's dedication to academic excellence, research, and industry collaboration. The achievements of our faculty and students in **research publications, industrial partnerships, and academic initiatives** are truly commendable.

I am particularly proud of the department's efforts in fostering **innovation, sustainability, and industry-driven learning**. The **guest lectures, MOUs, student placements, and outreach programs** highlighted in this edition demonstrate the department's commitment to holistic education and professional growth.

I extend my heartfelt appreciation to the faculty, students, and editorial team for their dedication in bringing this issue to life. Let us continue to strive for excellence in education, research, and industry partnerships, paving the way for a brighter future.

Dr. Pramod Patil
Principal

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Message from the Head of the Department

Dear Readers,

It gives me immense pleasure to present **Volume 3, Issue1** of our department newsletter for **July–December 2023**. This edition showcases the remarkable achievements of our faculty and students in research, academics, and extracurricular activities. From faculty publications and recognitions to industry collaborations and student success stories, this newsletter reflects our department's continuous growth and commitment to excellence.

We take pride in fostering a culture of innovation, learning, and social responsibility, as seen in our research contributions, guest lectures, and outreach initiatives. The **NSS Camp on Rural Sustainability**, various **industry interactions**, and student **placements and achievements** further highlight our progress.

I extend my heartfelt gratitude to the faculty, students, and stakeholders for their dedication and contributions. Let us continue striving for excellence and making a meaningful impact in the academic and professional world.

Dr. Shyam P. Tekade
Head of the Department

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Message from the Faculty Editor

Dear Readers,

It is with great enthusiasm that I present **Volume 3, Issue 1** of our Departmental Newsletter for **July–December 2023**. This edition captures the remarkable achievements of our faculty and students in **research, academic excellence, industry collaborations, and social initiatives**. The continuous efforts of our department in fostering **innovation, sustainability, and industry-academia partnerships** are truly inspiring.

I extend my heartfelt gratitude to all contributors for their dedication in making this newsletter a valuable platform for sharing knowledge and success stories. Special thanks to the editorial team for their hard work in compiling and presenting this issue.

I hope this newsletter serves as a source of motivation for our students and faculty to continue striving for excellence. Looking forward to many more milestones in the journey ahead!

Prof. Nitish D. Galande
Faculty Editor

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Message from the Student Editorial Coordinator

Dear Readers,

It is an honor to present **Volume 3, Issue 1** of our Departmental Newsletter for **July–December 2023**. This edition highlights the **achievements, innovations, and contributions** of our faculty and students in academics, research, industry collaborations, and extracurricular activities. It is inspiring to see the dedication and enthusiasm that drive our department toward excellence.

Being part of the editorial team has been a rewarding experience, and I sincerely appreciate the efforts of my fellow students, faculty members, and contributors in bringing this issue to life. This newsletter serves as a testament to our commitment to knowledge-sharing, professional growth, and holistic development.

I hope this edition provides valuable insights and inspiration to all readers. Let us continue to work together, learn, and achieve greater heights!

Mr. Prashant Chaudhary
Student Editorial Coordinator

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Volume 3: Issue 01 (July to December 2023)

DEPARTMENTAL NEWSLETTER - CHEMICAL ENGINEERING

VOLUME-3, Issue-01 **(JULY - DECEMBER 2023)**

Academic Year 2023-24

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Editorial Team

Student Editor: Mr. Prashant Chaudhary

Faculty Editor: Prof. Nitish D. Galande

ACADEMIC YEAR 2023-24(Semester: First-2023-24**)**

Yearly Publication Record

The Chemical Engineering Department has achieved significant progress in research and publications during the first half of the academic year. Faculty members have published numerous research papers in Scopus/UGC-approved journals, bolstering the department's academic reputation.

Faculty Research Publication Update

1. **Author:** Dr. Sudesh D. Ayare & Co-authors

   Title: *"A Review on Current Scenario of Energy, Nuclear Reactor Technology, and Cold Trap"*

   Journal: *Clean Technologies and Environmental Policy (2023)*

   Indexing: SCI & Scopus

   Dr. **Sudesh D. Ayare** and his co-authors have published a **significant research paper** titled *"A Review on Current Scenario of Energy, Nuclear Reactor Technology, and Cold Trap"* in the prestigious journal *Clean Technologies and Environmental Policy (2023)*. The paper, indexed in **SCI and Scopus**, underscores its **high impact and relevance** in the field of energy and nuclear technology. This publication contributes to advancements in **sustainable energy solutions, nuclear reactor efficiency, and cold trap mechanisms**, offering insights into **current challenges and future developments**. The recognition of this work reflects the **academic excellence and research capabilities** of the institute.

   Congratulations to **Dr. Sudesh D. Ayare** and the research team for their achievement!!!!!!

2. **Author:** Dr. Sandip H. Gharat

   Title: *"Augmented Flow and Reduced Clogging of Particles Passing Through Small*

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Apertures by Addition of Fine Grains"
Journal: *Powder Technology (2023)*
Indexing: SCI & Scopus

Dr. **Sandip H. Gharat** has published an impactful research paper in *Powder Technology (2023)*, titled *"Augmented Flow and Reduced Clogging of Particles Passing Through Small Apertures by Addition of Fine Grains."* This study, indexed in **SCI and Scopus**, presents **innovative approaches to improving particle flow and minimizing clogging issues**, which are critical in industries such as **chemical processing, pharmaceuticals, and material handling**.The research provides valuable insights into **particle interactions, granular flow optimization, and industrial applications**, further strengthening the **scientific contributions** of the institute.

Congratulations to **Dr. Sandip H. Gharat** for this remarkable achievement!

3. **Author:** Dr. S.J. Kulkarni & Team
Title: *"Biohydrogen from Waste Feedstocks: Materials, Methods, and Recent Developments"*
Journal: *BioNano Science (2023)*
Indexing: ESCI & Scopus

Dr. **S.J. Kulkarni** and his research team have published an insightful paper titled *"Biohydrogen from Waste Feedstocks: Materials, Methods, and Recent Developments"* in *BioNano Science (2023)*. Indexed in **ESCI and Scopus**, this study explores **cutting-edge advancements in biohydrogen production**, emphasizing the **use of waste feedstocks for sustainable energy generation**.The research highlights **efficient materials, innovative methodologies, and emerging trends in hydrogen production**, contributing to the growing field of **renewable energy and environmental sustainability**.

This publication reinforces the institute's commitment to impactful research in **green energy solutions**.

Congratulations to **Dr. S.J. Kulkarni and his team** for their outstanding contribution to sustainable science!!!!

Faculty Publication Update – Book Contribution

1. **Author: Dr. S.J. Kulkarni**

   Book Title: ***"Optimization of Parameters and Modelling for Breakthrough Curve for Chromium Removal in Fixed Bed"***

   Publisher: IGI Global

   Publication Date: October 2023

   Dr. S.J. Kulkarni has made a significant contribution to environmental engineering literature with his work in the book *"Optimization of Parameters and Modelling for Breakthrough Curve for Chromium Removal in Fixed Bed,"* published by IGI Global in October 2023.

   This publication focuses on optimization techniques and modeling approaches for the removal of chromium in fixed-bed systems, providing valuable insights for researchers and professionals in environmental engineering and wastewater treatment. His contribution underscores the growing importance of sustainable water treatment technologies and strengthens the research impact of the institute.

   Congratulations to Dr. S.J. Kulkarni for this academic achievement!

2. **Author:** Dr. S.J. Kulkarni

   Chapter Title: *"Combinations of Biotechnology and Nanotechnology in Industrial*

Wastewater Treatment"

Book Title: *"Sustainable Science and Intelligent Technologies for Societal Development"*

Publication Date: September 2023

Dr. **S.J. Kulkarni** has made a **notable contribution** to the book *"Sustainable Science and Intelligent Technologies for Societal Development"* with his chapter titled *"Combinations of Biotechnology and Nanotechnology in Industrial Wastewater Treatment."* Published in **September 2023**, this chapter explores **the integration of biotechnology and nanotechnology to enhance wastewater treatment processes**.By presenting **innovative and interdisciplinary solutions**, Dr. Kulkarni's work contributes to **sustainable environmental management, industrial waste reduction, and advanced water purification techniques**. This research further highlights the **importance of modern scientific advancements in addressing global environmental challenges**.

Congratulations to **Dr. S.J. Kulkarni** for this significant academic achievement!

Faculty as Resource Person – Guest Lecture by Dr. S.H. Gharat

Topic: *"Granular Processes: Contribution to Industrial Sustainability"*

Event: Five-Day Faculty Development Program (FDP)

Date: August 2023

Venue: MIT Academy of Engineering, Pune

Speaker: Dr. S.H. Gharat

Dr. **S.H. Gharat** delivered an insightful lecture on *"Granular Processes: Contribution to Industrial Sustainability"* during a **five-day Faculty Development Program (FDP)** at **MIT Academy of Engineering, Pune**, in **August 2023**.

His session focused on the **significance of granular processes in various industries**, including **pharmaceuticals, food processing, and materials engineering**. He

emphasized how **optimized granular flow and handling techniques** contribute to **waste reduction, energy efficiency, and overall industrial sustainability**.

The lecture provided **faculty members and researchers** with valuable knowledge on **advanced material processing techniques** and their role in enhancing **sustainable industrial practices**.

Faculty Recognition – Dr. S.J. Kulkarni Honored by Springer Nature

The **Chemical Engineering Department** proudly acknowledges the achievements of its faculty members in **academic research and professional excellence**.

Dr. **S.J. Kulkarni** received a **Certificate of Appreciation** from **Springer Nature** in **September 2023** for his **expertise in Chemical Engineering**. This recognition highlights his **valuable contributions to the field**, including **research, scholarly publications, and advancements in chemical engineering practices**.

Such accolades reinforce the department's commitment to **academic excellence, innovative research, and global recognition**. Congratulations to **Dr. Kulkarni** for this well-deserved honor!

Research & Publications – Faculty Achievements

The **Chemical Engineering Department** continues to excel in **research and innovation**, with faculty members contributing to **high-impact journals and scholarly books**.

Research & Publications – Faculty Achievements

1) Dr. **S.H. Gharat** co-authored a research paper titled **"Cavitation-assisted Intensification of Biogas Production"**, published in **Environmental Quality Management (2023)**, an **SCI-indexed journal**. This study explores **sustainable**

energy solutions by utilizing **hydrodynamic cavitation** to enhance **biogas production efficiency**.

The research presents an innovative approach to **renewable energy generation**, contributing to advancements in **waste-to-energy technologies and sustainable industrial practices**.

Congratulations to **Dr. S.H. Gharat** for his **valuable contribution** to the field of **Chemical Engineering and sustainable energy research**.

2) Dr. **S.P. Tekade** published a research paper titled **"Ultrasound-Combined Oxidants for Tartrazine Dye Degradation"** in **Environmental Monitoring and Assessment (2023)**, an **SCI-indexed journal by Springer**. This study explores **advanced wastewater treatment methods**, focusing on the **efficient degradation of Tartrazine dye using ultrasound-assisted oxidation techniques**.

His research contributes to the development of **sustainable and effective water treatment technologies**, addressing **industrial pollution and environmental conservation challenges**.

Congratulations to **Dr. S.P. Tekade** for his **notable research contributions** in the field of **Chemical Engineering and environmental protection**.

3) Dr. **S.D. Ayare** contributed to the research paper titled **"Hydrodynamic Cavitation for Industrial Wastewater Treatment"**, published in **Environmental Technology (2023)**, an **ESCI and Scopus-indexed journal**. This study highlights **sustainable remediation techniques**, emphasizing the role of **hydrodynamic cavitation** in enhancing **industrial wastewater treatment efficiency**.

His research provides valuable insights into **eco-friendly and cost-effective wastewater management**, addressing key challenges in **environmental sustainability and industrial pollution control**.

The department congratulates **Dr. S.D. Ayare** for his **significant contribution** to advancing **sustainable water treatment technologies**.

Research & Publications – Books & Proceedings

1) The **Chemical Engineering Department** continues to make significant contributions to **academic literature and advanced research**.

Dr. **S.J. Kulkarni** authored a book chapter titled **"Multifaceted Applications of Nanocomposites"** in *Smart and Sustainable Applications of Nanocomposites* (**IGI Global, 2024**). This chapter explores the **versatile applications of nanocomposites**, highlighting their **role in chemical engineering, materials science, and sustainable technologies**.

His work emphasizes the **importance of nanotechnology in developing innovative and environmentally friendly engineering solutions**, contributing to **advancements in industrial and research applications**.

Congratulations to **Dr. S.J. Kulkarni** for his **valuable scholarly contribution** to the field of **nanotechnology and chemical engineering**.

2) Dr. S.J. Kulkarni authored a chapter, and Dr. Tejas Chalke co-authored the chapter "Application of CFD in Healthcare" in *Biomedical Research Developments* (IGI Global, 2024). This work highlights the integration of Computational Fluid Dynamics (CFD) in medical sciences, showcasing its role in biomedical research, medical device optimization, and healthcare advancements.

Their research bridges engineering and medical sciences, emphasizing the impact of CFD on improving drug delivery systems, patient care technologies, and clinical diagnostics.

Congratulations to Dr. S.J. Kulkarni and Dr. Tejas Chalke for their valuable contribution to interdisciplinary research!

Faculty Achievements & Recognition

The Chemical Engineering Department proudly acknowledges the outstanding contributions of its faculty members to academia and industry.

Dr. S.J. Kulkarni received the **Springer Nature Certificate of Appreciation** in **September 2023** for his **editorial contributions** to chemical engineering research. This recognition highlights his dedication to advancing scientific knowledge, peer review excellence, and commitment to high-quality research dissemination.

His contributions strengthen the department's **research impact and inspire students and faculty toward academic excellence**.

Congratulations to **Dr. S.J. Kulkarni** on this notable achievement!

Industry & Academic Collaborations(A. MOUs Signed)

1. The Chemical Engineering Department actively fosters industry-academia collaboration through strategic Memorandums of Understanding (MOUs).

   An **MOU was signed with Vinati Organics Ltd. (Mahad) in July 2023**, focusing on:
   ☑**Industrial visits** to provide students with **practical exposure** to real-world chemical engineering processes.
   ☑**ARSST (Accelerating Rate Scanning System) testing collaborations**, enhancing **research opportunities** and hands-on learning in **process safety and thermal hazard evaluation**.

   This partnership strengthens **industry connections**, equipping students with **practical skills** and **industry-relevant knowledge**.

2. The **Chemical Engineering Department** continues to strengthen industry-academia partnerships through strategic **Memorandums of Understanding (MOUs)**.

   An **MOU was signed with Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth (DBSKKV), Dapoli, in September 2023**, focusing on:
   ☑**Student internships** to provide hands-on experience in **agricultural and environmental engineering**.
   ☑**Joint agricultural waste management projects**, promoting **sustainable practices** and innovative solutions for **waste valorization and bioenergy production**.

   This collaboration enhances **research opportunities**, encourages **interdisciplinary learning**, and supports **environmental sustainability initiatives**.

Industry & Academic Collaborations

(Industry Lectures & Workshops)

1. The **Chemical Engineering Department** actively organizes **expert-led sessions** to enhance student awareness of **career opportunities and industry trends**.

   Mr. **Gautam Wayse**, **CEO of Sepadu Specialty Engineering Services**, delivered a **career guidance session** on **"Opportunities in Oil & Gas"** in **December 2023**. The session, attended by **86 students**, provided insights into:

   ☑**Career prospects in the oil & gas sector**
   ☑**Industry trends, required skill sets, and job roles**
   ☑**Opportunities for chemical engineers in upstream, midstream, and downstream operations**

   This session helped students **gain industry insights** and **prepare for careers in energy and process industries**.

2. The **Chemical Engineering Department** continues to bridge the gap between **academia and industry** through expert-led sessions.

   Mr. **Praveen Saxena** (IIChE Mumbai) conducted a **motivational workshop** on **"Building a Career in Chemical Engineering"** in **October 2023**, benefiting **63 students**.

   The session focused on:

   ☑**Career pathways in chemical engineering** across various industries
   ☑**Skills and competencies required for success in the field**
   ☑**Insights into industry trends and professional growth**

   This workshop **inspired students** to explore diverse career opportunities and **prepared them for future challenges in the chemical engineering domain**.

Student Achievements (Placements & Higher Studies)

1. The **Chemical Engineering Department** takes pride in the successful placement of its students in **reputed industries**.

   ☑**Five B.E. students** secured placements at **Gharda Chemicals Ltd. (MIDC Lote)** with a **package of ₹4 LPA**.

   This achievement reflects the **department's commitment** to providing **industry-oriented education, skill development, and career opportunities** for students.

   Congratulations to the placed students, and best wishes for their **professional journey**!

2. The **Chemical Engineering Department** proudly acknowledges the academic excellence of its students pursuing **higher education**.
   ☑**Ms. Saima Parkar (B.E. 2023)** secured admission to the **M.Tech program in Process Engineering** at **VIT Pune**.
   Her achievement highlights the **department's strong academic foundation**, encouraging students to **pursue advanced studies and research** in specialized domains.
   Best wishes to **Ms. Saima Parkar** for her **future endeavors**!

Student Achievements (Sports & Culture)

1. The **Chemical Engineering Department** celebrates the **sports achievements** of its students at the **university level**.

   ☑**Ms. Kadam Shruti (B.E.)** secured **3rd place** in **University-level Volleyball** in **November 2023**.

   Her dedication and excellence in **sports** showcase a **well-rounded development approach**, balancing **academics and extracurricular activities**.

   Congratulations to **Ms. Kadam Shruti** on her achievement!

2. The **Chemical Engineering Department** takes pride in the **extracurricular accomplishments** of its students.

   ☑**Mr. Parichay Kamble (T.E.)** secured **1st place in Chess** at the **College Fest (December 2023)**.

   His strategic thinking and dedication to the game highlight the importance of **mental agility and sportsmanship** among students.

   Congratulations to **Mr. Parichay Kamble** on this remarkable achievement!

Outreach & Social Initiatives

The **Chemical Engineering Department** remains committed to **community engagement and social responsibility** through various initiatives.

Tree Adoption Campaign (August 2023)

Date: 7th August 2023

Venue: Chemical Engineering Department, GIT Lavel

Organized by: SPACE (Students Pioneer Association of Chemical Engineering) & NSS Team

The Chemical Engineering Department at Gharda Institute of Technology, in collaboration with the NSS team, successfully organized a **Tree Adoption Campaign** on 7th August 2023. The event aimed to promote environmental conservation and student responsibility in sustainability efforts.

The campaign was graced by **Mr. Vaibhav Borate** (Assistant Forest Officer) and **Mr. Dhakane** (Forest Ranger), who shared valuable insights on afforestation and biodiversity conservation. Students actively engaged in discussions and pledged to care for adopted trees.

Led by **Prof. Nitish Galande**, the initiative aligned with engineering knowledge and sustainability principles, fostering social responsibility. The event concluded with a vote of thanks, leaving a lasting impact on all participants.

Such initiatives reinforce the institute's commitment to environmental consciousness and practical learning.

Teachers' Day Celebration at GIT Lavel

Date: September 5, 2023
Organized by: Students of the Chemical Engineering Department
Led by: Prof. Nitish Galande

The students of the **Chemical Engineering Department** at Gharda Institute of Technology celebrated **Teachers' Day** on **September 5, 2023**, to honor their professors for their dedication and guidance. Under the leadership of **Prof. Nitish Galande**, the event featured **felicitation ceremonies, heartfelt speeches, and student-led tributes**, highlighting the invaluable role of teachers in shaping students' futures.

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The celebration was a moment of gratitude and appreciation, strengthening the bond between faculty and students. Through this initiative, students acknowledged the hard work, mentorship, and inspiration provided by their professors.

The event concluded with a vote of thanks, making it a memorable occasion for both faculty members and students.

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Industry & Academic Collaborations

(Industry Lectures & Workshops)

1. Guest Lecture by Capt. Manoj Bhamre (Manager – Human Resources, Supriya Life Science Ltd.) on Career Development (30th August 2023).

The **Chemical Engineering Department** of Gharda Institute of Technology hosted a **guest lecture** by **Capt. Manoj Bhamre**, Manager – Human Resource at **Supriya Life Science Ltd.**, on **30th August 2023**. The session focused on **career opportunities, industry expectations, and professional development** for engineering students.

Capt. Bhamre shared valuable insights on **the skills required to excel in the chemical and pharmaceutical industries, interview preparation strategies, and the importance of leadership and teamwork**. Students actively participated in the interactive session, gaining practical knowledge about career planning and industry dynamics.

The lecture concluded with a Q&A session, where Capt. Bhamre addressed students' queries, offering guidance for their professional journeys. The event was an enriching experience, bridging the gap between academia and industry expectations.

2. Guest Lecture on "Wonderful World of Birds" by Mr. Nilesh Bapat (6th October 2023)

The **Chemical Engineering Department** of **Gharda Institute of Technology** organized a captivating guest lecture on **"The Wonderful World of Birds"** by **Mr. Nilesh Bapat**, a passionate birdwatcher and wildlife enthusiast, on **6th October 2023**.

During the session, Mr. Bapat introduced students to the **diverse avian species, their ecological significance, and the importance of conservation**. Using **stunning visuals and real-life experiences**, he explained **bird behavior, migration patterns, and the crucial role of birds in maintaining environmental balance**.

The session was highly **interactive**, with students engaging in discussions about **birdwatching techniques, habitat protection, and the impact of human activities on biodiversity**.

The event concluded with a **vote of thanks**, leaving students **inspired to appreciate and contribute to wildlife conservation efforts**.

3. Guest Lecture on "Static Electricity in Industry" by Mr. P.V. Vidhyadhar Rao (9th October 2023)

The **Chemical Engineering Department** of **Gharda Institute of Technology** organized an insightful guest lecture on **"Static Electricity in Industry"** by **Mr. P.V. Vidhyadhar Rao**, **Proprietor & ESD Auditor, ESD Control System, Mumbai**, on **9th October 2023**.

The session covered the **causes, effects, and control measures of static electricity** in industrial environments, with a special focus on **chemical and pharmaceutical industries**. Mr. Rao elaborated on **the hazards of electrostatic discharge (ESD), industry safety protocols, and best practices** to mitigate risks.

Through real-world case studies, he provided **practical insights into handling static electricity** to prevent **accidents and equipment damage**. The session concluded with an **interactive Q&A**, where students engaged in discussions and clarified their doubts.

This lecture successfully **bridged theoretical concepts with industrial applications**, offering students **valuable knowledge** for their future careers in process safety and engineering.

4. Guest Lecture by Mr. Praveen Saxena (Chairman, IIChE MRC) & Mr. Dhawal Saxena (National Council Member, IIChE) on Motivation for

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Budding Chemical Engineers and Role of IIChE in Student Development (12th October 2023)

The **Chemical Engineering Department** of **Gharda Institute of Technology** organized a guest lecture on **"Motivation for Budding Chemical Engineers and Role of IIChE in Student Development"** on **12th October 2023**. The session featured **Mr. Praveen Saxena, Chairman of IIChE MRC**, and **Mr. Dhawal Saxena, National Council Member & Registrar, IIChE**, who shared their expertise on career growth and professional development.

The speakers emphasized the **importance of chemical engineering in various industries**, discussed **career prospects**, and highlighted the **significance of professional organizations like IIChE** in shaping students' futures. They elaborated on **networking opportunities, industry exposure, and skill enhancement programs** available through IIChE.

The interactive session encouraged students to **participate in professional forums, engage in research, and develop leadership skills**. The lecture concluded with a **Q&A session**, where students gained valuable insights into career planning and industry expectations. The event served as an **inspiring platform for students to prepare for their professional journeys**.

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