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**DEPARTMENTAL NEWSLETTER - CHEMICAL ENGINEERING**  
**VOLUME-1, Issue-01**  
**(July -December 2021)**

(Ranking of the best 100 tech-enabled  
Engineering Colleges in the Country)

**Ranking**

**53 (All India), 42 (Private Colleges), 07 (west Zone)**



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**Volume 1: Issue 01** (July to December-2021)

**DEPARTMENTAL NEWSLETTER - CHEMICAL ENGINEERING**

**VOLUME 1: ISSUE 01 I (JULY TO DECEMBER-2021)**

**Academic Year 2021-22**

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**Editorial Team**

**Student Editor:** Miss Pallavi Radaye

**Faculty Editor:** Prof. Nitish D. Galande

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Volume 1: Issue 01 (July to December-2021)

### **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, 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

### 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.

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.

Volume 1: Issue 01 (July to December-2021)

**Message from the Principal**



Dear Readers,

It gives me immense pleasure to present **Volume-1, Issue-01** of the **Departmental Newsletter – Chemical Engineering** for **July to December 2021**. This inaugural edition marks a significant milestone in documenting the academic, research, and co-curricular achievements of our students and faculty.

The **Department of Chemical Engineering** has always been committed to fostering **innovation, industry collaborations, and excellence in education**. The efforts taken by our faculty and students in research, technical advancements, and skill development are commendable. Participation in various **guest lectures, workshops, and national-level competitions** reflects the department’s dedication to holistic learning.

I sincerely appreciate the **editorial team** for their hard work in bringing this issue to life. I encourage students to stay curious, explore new opportunities, and continue striving for excellence in their academic and professional journeys.

Best wishes to the entire Chemical Engineering team for continued success!

**Dr. Sandip H.Gharat**

**Principal**

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## Message from the Head of the Department



Dear Readers,

It is with great pride that I present **Volume-1, Issue-01** of the **Departmental Newsletter – Chemical Engineering** for **July to December 2021**. This newsletter serves as a platform to showcase the **academic excellence, research endeavors, industrial collaborations, and extracurricular achievements** of our students and faculty members.

The **Department of Chemical Engineering** is committed to fostering an **innovative and industry-oriented learning environment**. Our faculty members continuously strive to impart knowledge that bridges the gap between academia and industry, ensuring that our students are well-prepared for the challenges ahead. Participation in **guest lectures, technical workshops, research publications, and national-level events** highlights the dedication of our students toward professional growth.

I extend my heartfelt gratitude to the **editorial team** for their efforts in compiling this issue. Let us continue working together to achieve new heights of success.

Best Regards,

**Dr. Shyam P. Tekade**

**Head, Department of Chemical Engineering**

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**Message from the Faculty Editor**



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I extend my heartfelt gratitude to the **editorial team** for their efforts in compiling this issue. Let us continue working together to achieve new heights of success.

**Prof. Nitish D. Galande**

Faculty Editor

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### Message from the Student Editorial Coordinator



Dear Readers,

I am honored to present **Volume 1, Issue 1** of the **Departmental Newsletter – Chemical Engineering** for **July to December 2021**. This newsletter highlights the **remarkable achievements, research contributions, and industry collaborations** undertaken by our department during this period.

It is truly inspiring to witness the dedication of our **faculty and students** in advancing their knowledge and skills through **guest lectures, industrial visits, workshops, and academic excellence**. The continuous pursuit of **innovation and professional growth** is evident in every initiative showcased in this edition.

I would like to express my heartfelt gratitude to the **editorial team, faculty members, and fellow students** for their hard work in compiling this newsletter. I hope this edition serves as a source of **motivation and inspiration**, encouraging all to strive for greater success in **Chemical Engineering**.

**Miss. Pallavi Radaye**

Student Editorial Coordinator

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### **STUDENT ACHIEVEMENT: AKANSHA MHATRE AT ARSISE-21**

We are proud to announce that Akansha Mhatre, a student of the Chemical Engineering Department, successfully presented a research paper at ARSISE-21, a National Level Technical Paper Presentation event organized by Bharati Vidyapeeth College of Engineering, Navi Mumbai, on 23–24 September 2021.

This achievement highlights her dedication to research and innovation in the field of Chemical Engineering. Participating in national-level technical events not only enhances students' technical acumen but also provides a platform to interact with experts and peers from various institutions.

We extend our congratulations to Akansha Mhatre and appreciate her commitment to academic excellence. We encourage all students to actively participate in such competitions to refine their research skills and contribute to the field of engineering.

Keep striving for excellence!

### **STUDENT ACHIEVEMENT: NANDKUMAR GURAV AT PRAKALP 2021**

We are proud to announce that Nandkumar Gurav, a student of the Chemical Engineering Department, successfully presented a research paper at Prakalp 2021 – National Level Engineering Students Congress, held at MIT Academy of Engineering, Pune, on 13–14 September 2021.

Prakalp 2021 is a renowned platform that brings together budding engineers to showcase their innovative research and technical expertise. Nandkumar's participation highlights his dedication to academic excellence and his passion for advancing knowledge in Chemical Engineering.

His achievement serves as a motivation for other students to engage in research activities, fostering innovation and professional growth.

We extend our heartfelt congratulations to Nandkumar Gurav and encourage all students to participate in such prestigious technical events to broaden their academic and research horizons.

## **STUDENT ACHIEVEMENT: GAUTAMI NARHARI SHINES AT PRAKALP 2021**

We are delighted to announce that Gautami Narhari, a dedicated student of the Chemical Engineering Department, successfully presented her research paper at *Prakalp 2021 – National Level Engineering Students Congress*, held at MIT Academy of Engineering, Pune, on 13–14 September 2021.

Prakalp 2021 provided a platform for aspiring engineers to showcase their innovative research and technical expertise. Gautami's presentation reflected her deep understanding of chemical engineering concepts and her ability to contribute to advancements in the field. Her participation in this prestigious event highlights the commitment of our students towards academic excellence and research.

We extend our heartfelt congratulations to Gautami for this remarkable achievement. Her dedication serves as an inspiration for fellow students to engage in research activities and technical competitions, fostering a culture of innovation and learning.

## **STUDENT PARTICIPATION: GAURI KANADE AT 'LAB TO LAND ECOSYSTEM' WORKSHOP**

We are proud to share that Gauri Kanade, a student of the Chemical Engineering Department, actively participated in the *Lab to Land Ecosystem* workshop, organized by *Raja Ramanna Center for Advanced Technology* in collaboration with *IIT Indore* on 14 August 2021.

This workshop provided an invaluable opportunity for participants to explore the transition of scientific innovations from laboratories to real-world applications. It focused on bridging the gap between research and industrial implementation, fostering innovative thinking among students.

Gauri's participation in such an insightful event reflects her keen interest in applied research and technological advancements. We encourage all students to engage in similar workshops, as they provide exposure to cutting-edge developments and industry-relevant skills.

Congratulations to Gauri for her initiative and enthusiasm in learning beyond the classroom!

**EDITORIAL TEAM**

**Editor-in-Chief:** Prof. Nitish Galande

**Student Coordinators:** MS. Vaishnavi Deshmukh

**Department of Chemical Engineering**

**Academic Year 2022-23.**