Vol.1 |SP 2024

ChemEletter





Department of Chemical Engineering

&

Centre for Food Engineering and Technology

BIRLA INSTITUTE OF TECHNOLOGY MESRA, RANCHI

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Message from The Head of The Department

It gives me immense pleasure and satisfaction to present the inaugural newsletter - **ChemEletter**, of the Department of Chemical Engineering. At the outset, I wish to express my sincere thanks to the editorial team members who made it possible to bring this issue to light. **ChemEletter** marks a significant milestone in our ongoing efforts to enhance communication, celebrate achievements, and foster community within our departmental activities. This newsletter brings a comprehensive profile of our academic and co-curricular activities, accomplishments, and progress until June 2023.

I thank Prof. Indranil Manna (VC, BIT Mesra) for his constant support and encouragement in publishing **ChemEletter**.

I also thank and congratulate everyone in the department for their achievements and contributions to this issue. This newsletter will not only reflect on the current progress of our department but will also inspire us to strive for improvement continually.

This issue will undoubtedly reinforce the department's objectives and goals, enhancing our commitment towards research, supporting students, and contributing to the broader scientific community. I hope you find this issue of **ChemEletter** informative and engaging. We would truly appreciate your feedback and suggestions.



Prof. Akhil K Sen
Head
Department of Chemical Engineering &
Centre for Food Engineering and Technology

Message from The Editor

Welcome to the inaugural edition of **ChemEletter**! With great excitement and pride, we present this very first issue, which marks a significant milestone for our department. The **ChemEletter** is designed to be a vibrant platform for sharing news, achievements, and insights about our community and to keep you connected with the dynamic world of Chemical Engineering.

The creation of **ChemEletter** stems from our commitment to fostering communication and engagement within our department and beyond. We aim to highlight the innovative research, exceptional teaching, and diverse activities that define our community and provide a space for celebrating the accomplishments of our students, faculty, and alumni.

I would like to extend my heartfelt gratitude to everyone who has contributed to **ChemEletter -** from our talented writers and photographers to the faculty and staff who provided valuable insights and support. Your efforts have made this publication reflect the dynamism and excellence that define our department.

In closing, I encourage you to stay connected with us through our various channels, including our website, social media platforms, and upcoming events. Your engagement and feedback are invaluable as we strive to improve and serve our community better continuously.

I hope you enjoy reading the first edition of **ChemEletter**.



Editors, ChemEletter
Department of Chemical Engineering

About The Department



Established in 1994 as Polymer Engineering and later rebranded as the Department of Chemical Engineering in 2011, the department has forged a distinguished path in the academic realm. Currently, it offers two undergraduate programs – B.Tech. (Chemical Engineering) with NBA accreditation, boasting a 120-seat capacity, and B.Tech. (Food Engineering and Technology) with a specialized focus and 30-seat capacity. The faculty, a team of highly qualified experts, is committed to upholding superior standards in education and research within the diverse realms of Chemical Engineering. The meticulously crafted academic curriculum for both existing and proposed courses aligns with the Choice Based Credit System (CBCS) principles, incorporating the latest industry developments. State-of-the-art laboratory facilities, equipped with high-end instruments, processing lines, and advanced computational resources define the department's top notch resources. The department envisions itself as a center of excellence dedicated to effective teaching, skill development, and cutting-edge research in Chemical Engineering and allied areas.

Department Overview

Scope/Objectives

To be a center of excellence for the provision of effective teaching/learning, skill development and research in the areas of chemical engineering and allied areas through the application of chemical engineering principles.

1994 – Established as **Dept. of Polymer Engineering**

1997 – First batch **B.E. Polymer Engineering (30 Seats)**

2011 – **BE-Chemical Engineering (30) & BE Chemical (Plastics & Polymer) (30)**

2013 – Sanctioned intake: 120

2014 – IMSc. (Food Technology) started

2018 – **Choice-Based Credit System (CBCS) started.**

NBA Accreditation for 3 years

2021 – **B.Tech. (Chemical Engineering) 120**

NBA Accreditation extension for 01 year (2021-22)

2022

NBA Accreditation for 03 years (2022-25)

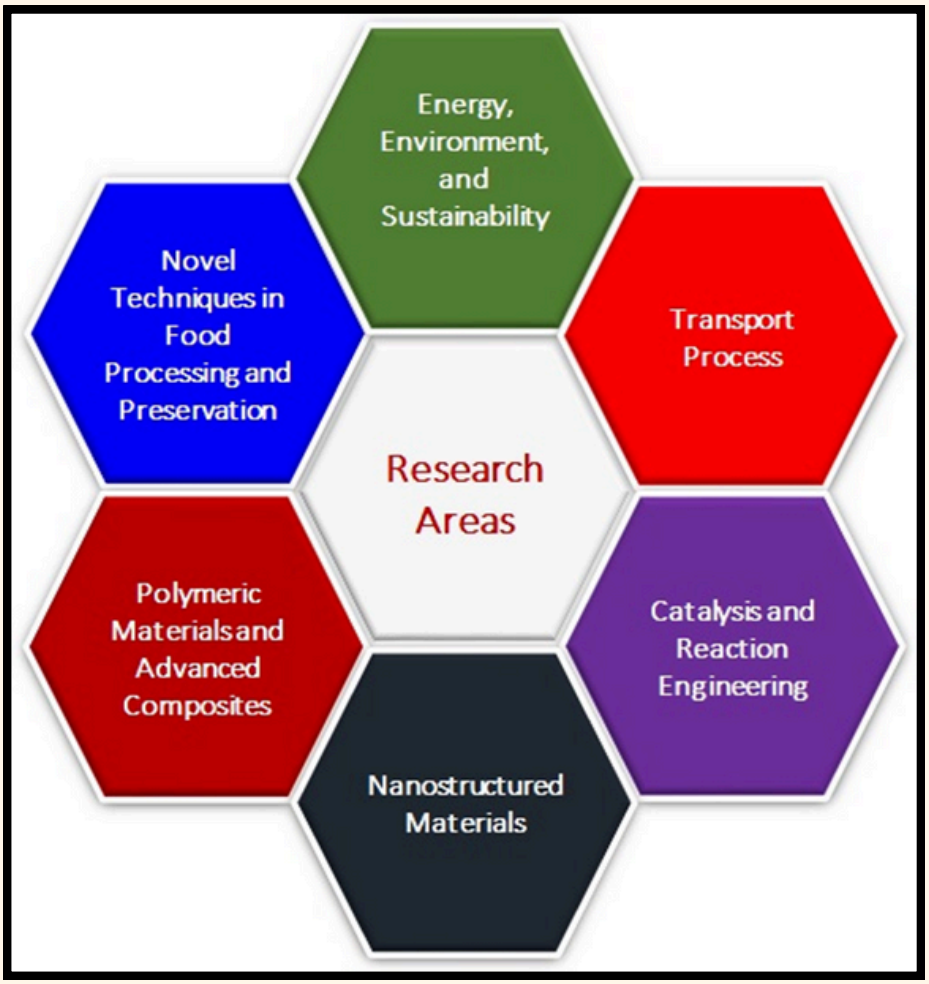
B Tech Chemical Engineering: 120

B Tech Food Engineering and Technology: 30 Started from 2023



Gold Trophy for Plasticon Award 2012
Best Educational Institution Contributing to Plastics

Research Areas



Ongoing Research Projects (as on June 2023)

1.Development of non-destructive process technology for simultaneous micronutrient fortification and bioavailability enhancement in Dal through selective binding of phytic acid. PI-Dr. Anupam Roy, DBT, Rs. 57.9 Lakhs.

2.Development of a rational technology for the production of ceramic materials from coal mining, washeries & processing wastes. PI - Dr. Amar Nath Mishra, CMPDI, Rs. 136.36 Lakhs.

3.Design and Development of Energy Efficient modified refrigeration system using Phase Change Material and its CFD analysis. PI - Dr. Debasree Ghosh, DST-SERB, Rs 29.81 Lakhs.

4. Modification of expanded porous starch matrix (EPSM) for promoting survival of probiotic bacteria in both high temperature and gastrointestinal condition: Lab scale to food product matrix validation. PI - Dr. Anupam Roy, ICMR, Rs. 15.47 Lakhs.

5. Design and development of low cost technology for micronutrient protein-fortified whole grain puffed rice. PI - Dr. Anupam Roy, ICMR, Rs. 51.02 Lakhs.

6. Role of hybrid nanofillers on the physio-mechanical and tribological behaviour of polymer nanocomposite for load bearing advanced mechanical component applications. CO-PI - Dr. J Sudeepan, DST-SERB, Rs.45.84 Lakhs.

7. Study the Effect of Stretching on the Physico-Mechanical Properties of Acrylates. Dr. Gautam Sarkhel (PI) and Dr. Arup Choudhury (Co-PI), DMSRDE-DRDO, GoI, Rs.81.368 Lakhs.

8. Development of Radiation, Chemical and Flame-Resistant High-Performance Polymer Composite for Defence Application. Dr. Pulak Datta (PI) and Dr. Arup Choudhury (Co-PI), ER&IPR-DRDO, GoI, Rs. 36.722 Lakhs.

9. Development 3D flexible hybrid mat based on waste sugarcane bagasse derived carbon nanofiber and metal organic framework (MOFs) for fabrication of next generation flexible / wearable supercapacitors by Dr. Arup Choudhury (PI) funded by “DST- SERB”. Rs. 25.33 Lakhs

10. Degradation of polystyrene microplastics (PMPs) from wastewater using Novel Continuous Rotating Electro-Chemical Reactor (CRECR). Dr. Abhijit Mondal (PI), Department of Health Research (DHR), Ministry of Health and Family Welfare (MoHFW), Rs. 44.17 Lakhs.

Completed Research Projects (as on June 2023)

1. Biopolymer based nano-layer fortification of self-assembled micronutrients over preconditioned rice: Retention of fortified nutrients and scale-up studies. PI: Dr. Anupam Roy, Funding Agency: ICMR, Sanctioned Amount: Rs. 39.57 Lakhs
2. Development of process technology for enhanced resistant starch content in rice and rice-based snack (Puffed rice). PI: Dr. Anupam Roy, Funding Agency: DST-SERB, Sanctioned Amount: Rs. 53.06 Lakhs

Publications in peer-reviewed journals

1. Prakash, O., Ahmad, A., Kumar, A., **Chatterjee, R.,** Chattopadhyaya, S., Sharma, S., Sharma, A., Li, C. and Tag Eldin, E.M., 2022. **Energies**, 15(22), p.8517.
2. Das, J., **Mondal, A.**, Biswas, S. and Nag, S., 2022. **Water Science & Technology**, 86(11), pp.2808-2819.
3. Kumar, M., Anand, A., **Chatterjee, R**., Sharma, S., Maiti, T.K., Dwivedi, S.P., Saxena, A., Li, C. and Eldin, E.M.T., 2022. **Materials**, 15(17), p.6149.
4. Ansari, M.O., Ghose, J., Chattopadhyaya, S., **Ghosh, D.**, Sharma, S., Sharma, P., Kumar, A., Li, C., Singh, R. and Eldin, S.M., 2022. **Micromachines**, 13(12), p.2148.
5. Majumdar, R., Mishra, U., Mahata, N., **Mondal, A**. and Bhunia, B., 2022. **Biomass Conversion and Biorefinery**, pp.1-13.
6. Ahmad, M.W., **Choudhury, A**., Dey, B., Anand, S., Al Saidi, A.K.A., Lee, G.H. and Yang, D.J., 2022. **Journal of Energy Storage**, 55, p.105484.
7. Pethaperumal, S. and **Mohanraj, G.T.**, 2022. **Surfaces and Interfaces**, 34, p.102381.
8. **Chatterjee, R.**, Mukherjee, S.K., Paul, B. and Chattopadhyaya, S., 2022. **Clean Technologies and Environmental Policy**, 24(7), pp.2295-2312.
9. **Roy, A**., Patra, M., Sarkhel, S., **Sengupta, S.**, Saha, S., Jha, S., **Sarkhel, G**. and Shrivastava, S.L., 2022. **Food Chemistry**, 387, p.132941.
10. **Tiwari, A.K.**, Prasad, N., **Jana, S.K**., Srivastava, N., Alshahrani, M.Y., Ahmad, I., Mishra, P.K. and Pal, D.B., 2022. **Sustainable Energy Technologies and Assessments**, 53, p.102590.
11. Ahmad, M.W., Dey, B., **Sarkhel, G**., Yang, D.J. and **Choudhury, A**., 2022. **Journal of Electroanalytical Chemistry**, 920, p.116646.
12. **Ghosh, D**., Ghose, J., **Datta, P**., Kumari, P. and Paul, S., 2022. **Journal of Energy Storage**, 53, p.105179.
13. Tiwary, P., Toppo, P.N. and **Karmakar, A**., 2022. **Sādhanā**, 47(3), p.125.
14. Ahmad, M.W., **Choudhury, A**., Dey, B., Anand, S., Al Saidi, A.K.A., Lee, G.H. and Yang, D.J., 2022. **Journal of Energy Storage**, 55, p.105484.
15. Mohan, A., **Roy, A**., Duggirala, K. and Klein, L., 2022. LWT, 165, p.113747.
16. Pal, D.B., **Tiwari, A.K**., Srivastava, N., Ahmad, I., Abohashrh, M. and Gupta, V.K., 2022. **Environmental Research**, 214, p.114046.
17. **JAYAPALAN, S**. and VIJAY, K., 2022. Journal of Engineering Research.
18. Purohit, A., Kumari, A., **Roy, A**. and Mohan, A., 2022. **Frontiers in Food Science and Technology**, 2, p.960471.
19. Ranjan, J.K. and **Goswami, S.**, 2022. **Journal of Elastomers & Plastics**, 54(7), pp.1148-1171.

20. Dey, B., Sarkhel, G. and Choudhury, A., 2023. **Journal of Macromolecular Science, Part A**, 60(2), pp.150-160.
21. Hossain, S.S., Dey, B., Ali, S.S. and **Choudhury, A.**, 2023. **Nanomaterials**, 13(4), p.642
22. Ranjan, C., **Sarkhel, G**. and Kumar, K., 2023. **Advances in Materials and Processing Technologies**, pp.1-12.
23. Dey, B., Ahmad, M.W., **Sarkhel, G**., Lee, G.H. and **Choudhury, A**., 2023. **Microchemical Journal**, 186, p.108295.
24. Shiv, J.K., Kumar, K. and **Jayapalan, S**., 2023. **Advances in Materials and Processing Technologies**, pp.1-12.
25. Anand, S. and **Choudhury, A**., 2023. **Materials Chemistry and Physics**, 299, p.127517.
26. Ranjan, C., **Sarkhel, G**. and Kumar, K., 2023. **Advances in Materials Science and Engineering**, 2023.
27. Ahmad, M.W., Dey, B., Syed, A., Bahkali, A.H., Verma, M., Yang, D.J. and **Choudhury, A.**, 2023. **Journal of Alloys and Compounds**, 957, p.170269.
28. Dey, B., Ahmad, M.W., Kim, B.H., Kamal, T., Yang, D.J., Patra, C.N., Hossain, S.S. and **Choudhury, A**., 2023. **Analytical and Bioanalytical Chemistry**, 415(17), pp.3487-3501.
29. Ahmad, M.W., Dey, B., Kim, B.H., Sarkhel, G., Yang, D.J., Hossain, S.S., Kamal, T. and **Choudhury, A**., 2023. **Microchemical Journal**, 193, p.109074.
30. Paul, T., Bhardwaj, P., **Mondal, A**., Bandyopadhyay, T.K., Mahata, N. and Bhunia, B., 2023. **Applied Biochemistry and Biotechnology**, 195(12), pp.7236-7254.
31. Pethaperumal, S., **Mohanraj, G.T**. and Kumar, P.S., 2023. **Applied Nanoscience**, 13(6), pp.4167-4176.
32. Venkatesan, J., Thangavelu, P., Jubie, S., **Jayapalan, S**. and Sivakumar, T., 2023. **Letters in Drug Design & Discovery**, 20(2), pp.167-180.
33. Jayaprakash, V., Saravanan, T., Ravindran, K., Prabha, T., Selvaraj, J., **Jayapalan, S**., Chaitanya, M.V.N.L. and Sivakumar, T., 2023. **Current Computer-Aided Drug Design**, 19(1), pp.37-50.
34. Pal, D.B., **Tiwari, A.K**., Prasad, N., Syed, A., Bahkali, A.H., Srivastava, N., Singh, R.P. and Gupta, V.K., 2023. **Chemosphere**, 314, p.137602.
35. Majumdar, R., Mishra, U., Mahata, N., Shah, M.P., **Mondal, A**. and Bhunia, B., 2023. **Chemosphere**, 337, p.139370.
36. Kumari, A. and **Roy, A**., 2023. **Food Science and Biotechnology**, 32(9), pp.1235-1256.
37.**Karmakar, A**. and **Jana, S.K.**, 2023. **International Journal of Chemical Kinetics**, 55(8), pp.441-454.

38. Mukherjee, A., Abdinejad, M., Mahapatra, S.S. and **Ruidas, B.C**., 2023. **Journal of Materials Chemistry A**, 11(17), pp.9300-9332.
39. Shree, V., **Sen, A.K.**, Basu, S. and Ratna, D., 2023. **Journal of Vinyl and Additive Technology**, 29(1), pp.130-143.
40. Saha, S., Sarkhel, S., Sahoo, B., Kumari, A., Jha, S., Mukherjee, A., Biswas, D., Saha, R., Chatterjee, A., Sarkar, B. and **Jana, S.K**., 2023. **LWT**, 175, p.114432.
41. Sahoo, B., Mohan, A. and **Anupam, R**., 2023. **LWT**, 184, p.114953.
42. Shiv, J.K., Kumar, K. and **Jayapalan, S**., 2023. **Materials Today: Proceedings**.
43. Ranjan, C., **Sarkhel, G**. and Kumar, K., 2023. **Materials Today: Proceedings.**
44. Pal, B., Naiya, T.K. and **Sarkhel, G**., 2023. **SPE Journal**, 28(02), pp.628-642.
45. Hasnain, S.M., **Chatterjee, R**., Ranjan, P., Kumar, G., Sharma, S., Kumar, A., Salah, B. and Ullah, S.S., 2023. **Sustainability**, 15(9), p.7415.
46. Sharma, A., Kumar, D., Kumar, A., Faisal, N., Kumar, N., Pandey, S., Hasnain, S.M., Al-Hazani, T.M., AlKahtane, A.A., Alkahtani, S. and **Chatterjee, R.**, 2023. **Sustainability**, 15(12), p.9286.
47. **Ruidas, B.C.**, Pal, D.B. and **Jana, S.K.**, 2023. **Combustion Science and Technology**, 195(10), pp.2442-2455.
48. Ahmad, A., Prakash, O., Sarangi, S.K., Singh Chauhan, P., **Chatterjee, R**., Sharma, S., Kumar, R., Tag, S.M., Kumar, A., Salah, B. and Ullah, S.S., 2023. **Sustainability**, 15(15), p.12067.
49. **Jana, S.K**., Pattanayak, S., Bhausaheb, M.S., **Ruidas, B.C.** and Pal, D.B., 2023. **Chem. Chem. Technol.**, 17(2), pp.438-449.

Books Published

Pal, D. B., & **Tiwari, A. K**. (Eds.). (2022). Agricultural and Kitchen Waste: Energy and Environmental Aspects. CRC Press. ISBN:9781000810998, 1000810992

Chapter(s) in Edited Book

1. **Ghosh, D**., Guha, C. & Ghose, J. Numerical Investigation on the Effect of the Shape of Cavities on the Melting Process of Latent Heat Thermal Storage Material Paraffin Wax. in Sustainable Chemical, Mineral and Material Processing (eds. Chinthapudi, E., Basu, S. & Thorat, B. N.) 29–44 (Springer Nature Singapore, 2022/11/19).
2. **Tiwari, A. K.,** Nirupama, Mishra, A. N., Pal, S. L. & Pal, D. B. Biomass Based Materials for Green Route Production of Energy. in Green Nano Solution for Bioenergy Production Enhancement (eds. Srivastava, M., Malik, M. A. & Mishra, P. K.) 1–17 (Springer Nature Singapore, 2022/7/8).

3. Pattanayak, S., Prasad, N. & **Jana, S. K**. Recycle of Plastic Waste to Liquid Fuel: A Sustainable Energy Production. in Sustainable and Clean Energy Production Technologies (eds. Pal, D. B. & Jha, J. M.) 51–66 (Springer Nature Singapore, 2022/7/1).
4. Tiwary, A. K., Singh, P. K., **Tiwari, A. K**. & Kumar, R. Different Energy Management Strategies for Clean Energy. in Sustainable and Clean Energy Production Technologies (eds. Pal, D. B. & Jha, J. M.) 29–49 (Springer Nature Singapore, 2022/7/1).
5. Pal, D. B. & **Tiwari, A. K**. Agricultural and Kitchen Waste. Agricultural and Kitchen Waste (2022/12/30).
6. Prasad, N, Pal, D. B, **Tiwari, A. K.** Utilization of Biomass from Refineries as Additional Source of Energy. in Agricultural and Kitchen Waste 205–218 (CRC Press, 2022/12/30).
7. **Tiwari, A. K**, Pal, D. B, Vikash Shende, Vinay Raj, Anjali Prasad, S. L. P. Various Value Added Products From Agriculture and Bio-Waste. in Agricultural and Kitchen Waste 269–286 (CRC Press, 2022/12/30).
8.Magar, S. B., **Tiwari, A. K**., Pal, D. B. & **Jana, S. K**. Biomass Conversion: Production of Oxygenated Fuel Additives. in Recent Technologies for Waste to Clean Energy and its Utilization (ed. Pal, D. B.) 219–244 (Springer Nature Singapore, 2023/4/20).
9. Pal, D. B., **Tiwari, A. K.**, Awasthi, S., **Jana, S. K.** & Prasad, N. Low-Cost Biomass Adsorbents for Arsenic Removal from Wastewater. in Recent Technologies for Waste to Clean Energy and its Utilization. 153–170 (Springer Nature Singapore, 2023/4/20).
10.Singh, H., Pandey, S., Prasad, N., Pal, D. B. & **Jana, S. K**. Utilization of Waste Biomass for Producing Useful Chemicals. in Sustainable Valorization of Agriculture & Food Waste Biomass: Application in Bioenergy & Useful Chemicals (eds. Pal, D. B. & Tiwari, A. K.) 71–98 (Springer Nature Singapore, 2023/8/1).
11. **Tiwari, A. K**., Chauhan, P. R., Pal, D. B. & **Jana, S. K**. Biomass Valorization as Energy Production Using Waste Biomass. in Sustainable Valorization of Agriculture & Food Waste Biomass: Application in Bioenergy & Useful Chemicals. 29–50 (Springer Nature Singapore, 2023/8/1).
12. Kumar, A., **Tiwari, A. K**., **Jana, S. K**. & Pal, D. B. Biomass (Algae) Valorization as an Energy Perspective: Review of Process Options and Utilization. in Sustainable Valorization of Agriculture & Food Waste Biomass: Application in Bioenergy & Useful Chemicals.123–150 (Springer Nature Singapore, 2023/8/1).

Patents (Applied / Granted)

1. Anupam Roy, & Sreyajit Saha. Application no. 202331036336. 2023
2. Anupam Roy, Ankanksha Kumari & Sreyajit Saha. Application no. 202231057966. 2022
3. Anupam Roy & Ankanksha Kumari. Application no. 202311010189. 2023
4. Amar Nath Mishra and Manik Ghosh. Application no. 202331016578. 2023

Technology Transferred



Microwave assisted Fluidized bed dryer



Microwave assisted rotating tray dryer

MoUs/Collaboration

- M/s John Deere India Pvt Ltd, John Deere Technology Centre, Tower 14, Magarpatta City, Hadapsar Pune 411013 Industrial Research Project. Date of MOU signing 20.07.2022
- Dhofar University, Salala, Oman, Nov 2022- Oct 2024
- The University of Texas at Dallas, USA. 2022-2023

Achievements of Students



Anirban Mukherjee got Catalytic grant from I-STEM by Indian Science, Technology adn Engineering Facilities Map 13th July 2022- 30th June 2023

Departmental Activities

Seminar/Workshop Conducted



Design and development of energy efficient modified refrigeration system using phase change materials and its CFD analysis (seminar). Funding: SERB-DST. Coordinator: Dr. Debasree Ghosh, Date: 04-03-2023



One-week Hands-on Training Workshop on -Advanced Analytical and Simulation Techniques in Chemical Engineering Applications, Under DST-STUTI Programme of IIT (ISM) Dhanbad. Funding: DST, Date: 21st-27th November 2022

Faculty Development Program (FDP) attended

- 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education. Faculty: Bidhan Chandra Ruidas. Organizer: AICTE, Date: 19th- 23rd December 2022

Conference attended by students



Akash Raj



Arya Kishore

International Conference on Net-Zero Emission Technologies for Sustainable Development Challenges and Opportunities



Gowrav Kumar

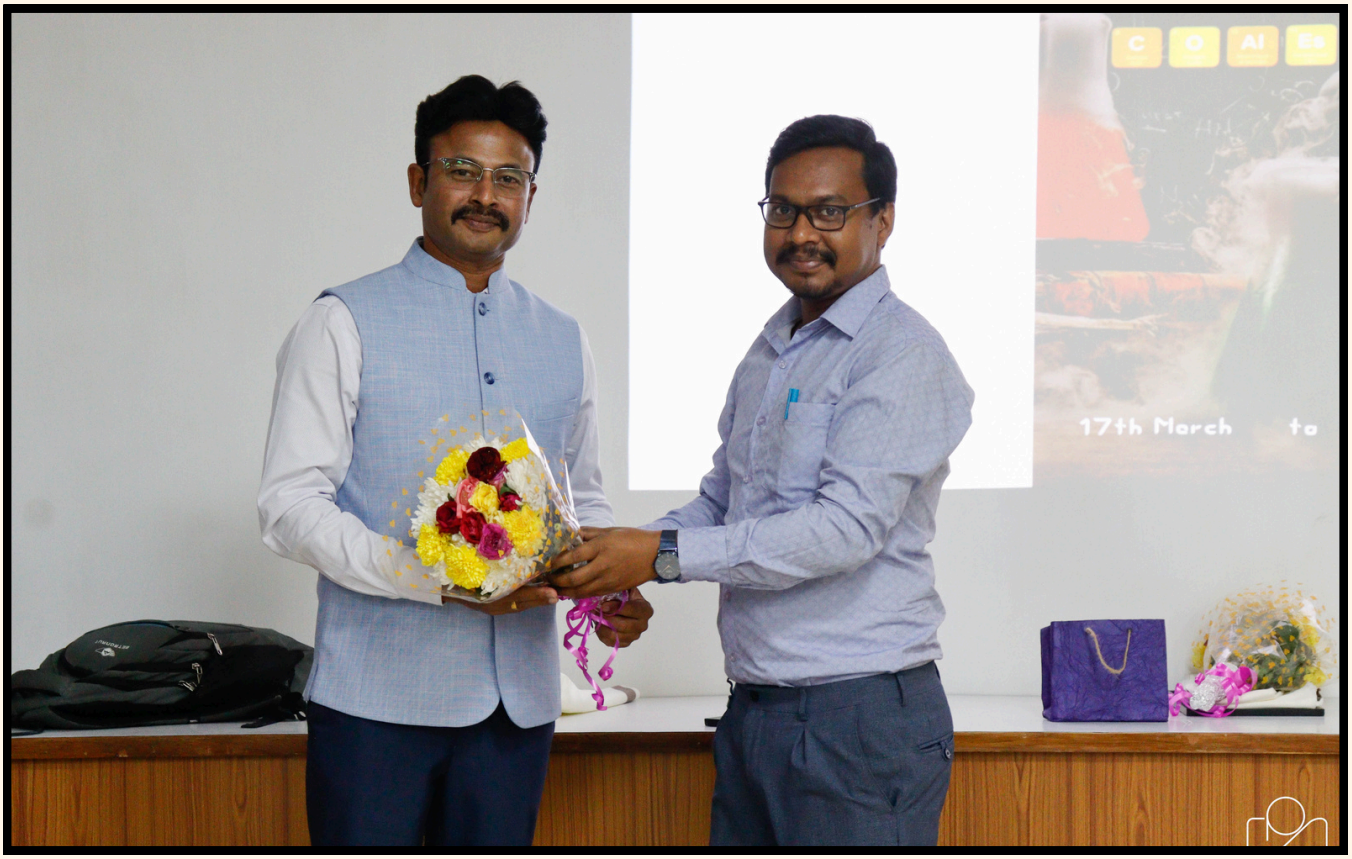
Presented Paper in CHEMCON-22 at HBTU, Kanpur, UP, 27th- 30th

COALESCENSE’23



The student chapter of Indian Institute of Chemical Engineers (IIChE) at BIT Mesra organized three days annual technical program “Coalescence 23” from 17th -19th March 2023.

Lecture by Industry Experts





During COALESCENCE'23, the department hosted Mr. Sankar Gunasekaran, General Manager Indian Oil Corporation Limited. He delivered a talk on "Sustainable Technologies and Scope of Chemical Engineering in India".

Distinguished Visitors



Prof. Anand Mohan, Associate Professor, Department of Food Science & Technology, University of Georgia, USA. 19th July 2022



Dr. D.S. Bag, Managing Director, DMSRDE Kanpur. 21st November 2022



Prof. R.K. Dey, Department of Chemistry, Central University of Jharkhand, Ranchi. 26th November, 2022



Mr. Basudev Chakraborty, General Manager and Head Coal Carbonisation Group, RDCIS, SAIL Ranchi, 17th March 2023



Prof. Chandan Guria, Department of Petrochemical Engineering, IIT ISM Dhanbad, 10th March 2023

Industrial Visits







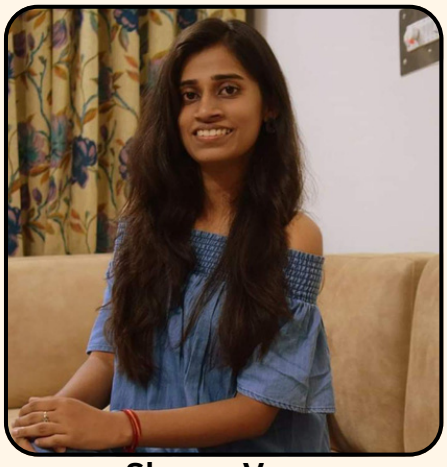
Our department conducted two informative site visits. On 14th March, 2023,we explored the exciting world of coal-based clean technologies at CSIR-Central Institute of Mining and Fuel Research (CSIR-CIMFR), a leading CSIR lab. The students also gained valuable exposure with a visit to the Hindalco Muri Plant, facilitated by Hindalco Industries Limited. These visits provided our students with a well-rounded perspective in the fields of research, development and manufacturing.

Student Corner

Conquering “THE TECH”



Shyam Prasad Pakala
(2014-18)
AIR 18 (GATE 2023)



Shreya Verma
(2014-18)
AIR 69 (GATE 2023)



Ankit Mehata
(2018-22)
AIR 108 (GATE 2023)



Dharani Sathwik Ram
(2017-21)

MS
(Chemical Engineering)
2023-25
Texas A&M University



Sai Mahi Abhishikth Swarangi
(2017-21)

MS
(Chemical Engineering)
2023-25
University of Massachusetts Lowell



T. Sathvik Kumar
(2017-21)

MS
(Chemical Engineering)
2023-25
University at Buffalo

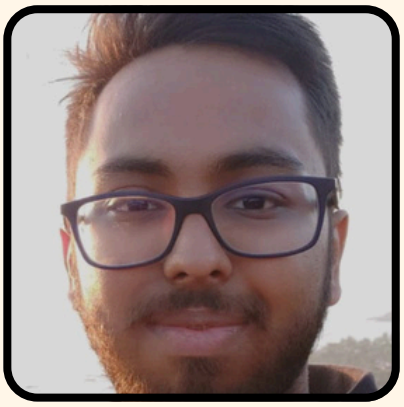
Conquering “THE MBA”



Vishwajeet
(2016-20)
IIM Lucknow PGP’25



Shashank
(2016-20)
ESCP Buiness School ’25



Anmol Prasad
(2016-20)
MDI Gurgaon PGDM’25



Aasha Kumari
(2017-21)
NMIMS SBM MBA’25



Yash Vishal
(2017-21)
MDI Gurgaon-PGDM’25



Samridhi Mishra
(2017-21)
XLRI Jamshedpur BM’25

Key Moments

JASLEEN KAUR (Gold Medalist) B.Tech. (Chemical Engineering)



HIMANSHU KUMAR (Gold Medalist) B.Tech. (Chemical Engineering-P&P)



Recent Graduates





Editorial Team

Student Editors



Shreyash Zade (K21)



Lily (K21)

Ankita Singh (K21)

Srishti Choudhary (K21)

Student Sub-Editors



Sakshi Sinha (K22)



Vivek Raj Sinha (K22)



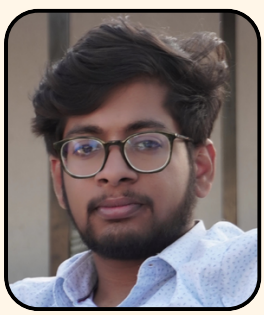
Sanjay Thakur (K22)



Tanishka Jaiswal (K22)



Priyanshu Raj (K22)



Shail Kumar Pandey (K22)

Faculty Co-ordinators

Dr. G.T. Mohanraj

Dr. Anand Bharti

Sangram Roy

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