

Workshop
Department of Chemical Engineering

2025-26

- 1. Keka Rana,** Participated in a Workshop on “Artificial Intelligence for Educational Institutions Harnessing AI for Smart Teaching, Learning and Research” organized by National Institute of Technology Jamshedpur, on 10th February, 2026.

2024-25

1. **Sonali Samanta**, participated in three days' workshop on "Recent Developments in Structural Engineering & Skill Upliftment" organized by the Department of Civil Engineering, Haldia Institute of Technology, West Bengal, India, in association with IQAC, Haldia, during 26th - 28th March, 2025.
2. **Keka Rana**, Participated in a workshop on "Recent developments in structural engineering & skill upliftment" organized by the Department of Civil Engineering, Haldia Institute of Technology, West Bengal, India, in association with IQAC, Haldia, during 26th - 28th March, 2025.
3. **Barnali Bej**, Participated in a workshop on "Recent developments in structural engineering & skill upliftment" organized by the Department of Civil Engineering, Haldia Institute of Technology, West Bengal, India, in association with IQAC, Haldia, during 26th - 28th March, 2025.

2023-24

1. **Barnali Bej**, Participated in IEEE Technical Lecture in workshop on “Modern Transistor Designs CMOS Chronicles: From Bulk CMOS to FinFET and Beyond - A Journey of Innovation” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi on 5th July, 2023.
2. **Barnali Bej**, Participated in IEEE Technical Lecture in workshop on “The transistor: exponential growth and securing our world for 75 years of existence” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi on 3rd July, 2023.
3. **Barnali Bej**, Participated in IEEE Technical Lecture in workshop on “Junctionless transistors” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi on 6th July, 2023.
4. **Barnali Bej**, Participated in IEEE Technical Lecture in workshop on “Modern Transistor Designs -Ultralow Power Flexible Electronics” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi on 7th July, 2023.
5. **Barnali Bej**, Participated in IEEE Technical Lecture in workshop on “Electrical and thermal characterization of Advanced CMOS, SOI, and FinFET-Analog performance of MOS transistors from the 1 μ m to the 20 nm technologies” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi on 10th July, 2023.
6. **Barnali Bej**, Participated in IEEE Technical Lecture in workshop on “Electrical and thermal characterization of Advanced CMOS, SOI, and FinFET-Modeling of hot carrier degradation in nanowire, nanosheet and forksheet devices” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi on 25th July, 2023.
7. **Barnali Bej**, Participated in 5 days workshop on “Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023]” organized by Department of Mechanical Engineering, National Institute of Technology, Rourkela from 15th – 21st July, 2023.
8. **Barnali Bej**, Participated in workshop on “Intellectual Property Rights (IPR) and Innovations” organized by IPR cell, Haldia Institute of Technology and IQAC in association with Patent Information Centre, W. B. State Council of Science and

Technology, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal on 2nd August, 2023.

9. **Biswajit Mandal** Participated 5 Days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023] organized by Department of Mechanical Engineering National Institute of Technology Rourkela, during 15th to 21st July 2023.
10. **Biswajit Mandal**, Participated in the workshop on “Intellectual Property Rights (IPR) and innovations” organized by IPR cell, Haldia Institute of Technology and IQAC, Haldia Institute of Technology, in association with Patent Information Centre, West Bengal State Council of Science and Technology, Department of Science and Technology and Biotechnology, Government of West Bengal, held on 2nd August, 2023.
11. **Keka Rana**, Attended a Series of Workshops on "Evolution of Transistor and Emerging Research Devices", on “CMOS Chronicles: From Bulk CMOS to FinFET and Beyond - A Journey of Innovation”, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 5th July, 2023.
12. **Keka Rana**, Attended a Series of Workshops on "Evolution of Transistor and Emerging Research Devices", on “Ultralow Power Flexible Electronics”, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 7th July, 2023.
13. **Keka Rana**, Attended a Series of Workshops on "Evolution of Transistor and Emerging Research Devices", on “Analog performance of MOS transistors from the 1 μ m to the 20 nm technologies”, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 10th July, 2023.
14. **Keka Rana**, Attended a 5 days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on “Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023]” organized by Department of Mechanical Engineering, National Institute of Technology Rourkela, during 15th to 21st July 2023.
15. **Keka Rana**, Attended a series of Workshop on "Evolution of Transistor and Emerging Research Devices", The Journey from Planar to Stacked 3D Transistor: Lessons from the

Past for Future Innovations, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 17th July, 2023.

16. **Keka Rana**, Attended a series of Workshop on "Evolution of Transistor and Emerging Research Devices", Modeling of hot carrier degradation in nanowire, nanosheet and forksheet devices, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 25th July, 2023.
17. **Keka Rana**, Attended a series of Workshop on "Evolution of Transistor and Emerging Research Devices", Materials and Structures for Gate Control of Nanoscale CMOS, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 14th August, 2023.
18. **Keka Rana**, Attended a series of Workshop on "Evolution of Transistor and Emerging Research Devices", Essential Physics of Modern MOSFETs, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 23rd August, 2023.
19. **Keka Rana**, Attended a series of Workshop on "Evolution of Transistor and Emerging Research Devices", Connecting Technologies to Applications for Humanity's Benefit: GaN HEMT Modeling Based on Microwave and mm-Wave Measurements, organized by IEEE EDS Delhi Chapter (New Delhi, India), DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, The National Academy of Sciences India – Delhi Chapter, on 21st September, 2023.
20. **Lipika Das**, Participated 5 Days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023] organized by Department of Mechanical Engineering, National Institute of Technology Rourkela, during 15th to 21st July 2023.
21. **Lipika Das**, Participated in the workshop on "Intellectual Property Rights (IPR) and innovations" organized by IPR cell, Haldia Institute of Technology and IQAC, Haldia Institute of Technology, in association with Patent Information Centre, West Bengal State Council of Science and Technology, Department of Science and Technology and Biotechnology, Government of West Bengal, held on 2nd August, 2023.

22. **Sutapa Roy**, Participated 5 Days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023] organized by Department of Mechanical Engineering, National Institute of Technology Rourkela, during 15th to 21st July 2023.
23. **Sutapa Roy**, Participated in the workshop on “Intellectual Property Rights (IPR) and innovations” organized by IPR cell, Haldia Institute of Technology and IQAC, Haldia Institute of Technology, in association with Patent Information Centre, West Bengal State Council of Science and Technology, Department of Science and Technology and Biotechnology, Government of West Bengal, held on 2nd August, 2023.
24. **Somak Jyoti Sahu** Participated 5 Days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023] organized by Department of Mechanical Engineering National Institute of Technology Rourkela, during 15th to 21st July 2023.
25. **Somak Jyoti Sahu** Participated in the workshop on “Intellectual Property Rights (IPR) and innovations” organized by IPR cell, Haldia Institute of Technology and IQAC, Haldia Institute of Technology, in association with Patent Information Centre, West Bengal State Council of Science and Technology, Department of Science and Technology and Biotechnology, Government of West Bengal, held on 2nd August, 2023.
26. **Sonali Samanta**, participated in five days workshop on “Recent Advancements in Membranebased Wastewater Treatment [RAMWT-2023]” organized by Department of Mechanical Engineering, National Institute of Technology Rourkela, during 15th to 21st July 2023.
27. **Sonali Samanta**, participated in a technical lecture on “The transistor: exponential growth and securing our world for 75 years of existence”, in a series of Workshop on “Evolution of Transistor and Emerging Research Devices” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, National Academy of Sciences India – Delhi Chapter, on 3rd July, 2023.
28. **Sonali Samanta**, participated in a technical lecture on “CMOS Chronicles: From Bulk CMOS to FinFET and Beyond - A Journey of Innovation”, in a series of Workshop on “Evolution of Transistor and Emerging Research Devices” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya

College, University of Delhi, National Academy of Sciences India – Delhi Chapter, on 5th July, 2023.

29. **Sonali Samanta**, participated in a technical lecture on “Ultralow Power Flexible Electronics”, in a series of Workshop on “Evolution of Transistor and Emerging Research Devices” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, National Academy of Sciences India – Delhi Chapter, on 7th July, 2023.
30. **Sonali Samanta**, participated in a technical lecture on “The Journey from Planar to Stacked 3D Transistor: Lessons from the Past for Future Innovations”, in a series of Workshop on “Evolution of Transistor and Emerging Research Devices” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, National Academy of Sciences India – Delhi Chapter, on 17th July, 2023.
31. **Sonali Samanta**, participated in a technical lecture on “Modelling of hot carrier degradation in nanowire, nanosheet and forksheet devices”, in a series of Workshop on “Evolution of Transistor and Emerging Research Devices” organized by IEEE EDS Delhi Chapter (New Delhi, India) DBT Star College Status Program, Deen Dayal Upadhyaya College, University of Delhi, National Academy of Sciences India – Delhi Chapter, on 17th July, 2023.
32. **Tanushree Ghosh**, Participated in one week Workshop on "Recent Advancements in Membrane-based Wastewater Treatment [RAMWT-2023]" Sponsored by SERB and Technically Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023] organized by Department of Mechanical Engineering, National Institute of Technology Rourkela, during 15th to 21st July 2023.
33. **Tapas Kumar Manna**, Participated 5 Days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater Treatment [RAMWT-2023] organized by Department of Mechanical Engineering National Institute of Technology Rourkela, during 15th to 21st July 2023.
34. Dr. Sunil Baran Kuila of Haldia Institute of Technology has successfully participated in the 5 Days Workshop Sponsored by SERB and Technically Co/Sponsored by ISHRAE Bhubaneswar, Sub-chapter on Recent Advancement in Membrane-based Wastewater

Treatment [RAMWT-2023] organized by Department of Mechanical Engineering National Institute of Technology Rourkela, from 15th to 21st July 2023.

2022-23

1. **Asit Kumar Saha**, Attended and participated in the workshop, “Designing and Modelling of IOT, AI & ML Systems”, organized by All India Council for Technical Education (AICTE), ATAL Academy, Arm Education and STMicroelectronics from 1st August to 5th August, 2022.
2. **Barnali Bej**, Participated in Seventh Lecture Workshop on "Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee, on “Superconductivity in Quantum Materials” organized by National Academy of Sciences India- Delhi chapter & Deen Dayal Upadhyaya College on 16th January, 2023.
3. **Barnali Bej**, Participated in Seventh Lecture Workshop on "Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee, on “Why Strings?” organized by National Academy of Sciences India- Delhi chapter & Deen Dayal Upadhyaya College on 18th January, 2023.
4. **Keka Rana**, Attended a Seventh Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swaup Bhatnagar (SSB) Awardee”, as part of Webinar on “Superconductivity of Quantum Materials”, on 16th January, 2023, organized by the Ohio State University with the National Academy of Sciences, India, Allahabad in collaboration with DeenDayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program.
5. **Keka Rana**, Attended a Seventh Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swaup Bhatnagar (SSB) Awardee”, as part of Webinar on “Why Strings”, on 18th January, 2023, organized by the National Academy of Sciences, India, Allahabad in collaboration with DeenDayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program.

6. **R. N. Jana** SERB Sponsored Two-day Workshop on Material Characterization Techniques, CSIR-Central Glass and Ceramic Research Institute (CGCRI), Jadavpur, **2nd -3rd, February, 2023.**
7. **Keka Rana**, Attended a Seventh Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee”, as part of Webinar on “Crowded fruitfly cultures: it’s not just the density”, on **2nd March, 2023**, organized by the National Academy of Sciences, India, Allahabad in collaboration with DeenDayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program.
8. Lipika Das, participated one day workshop program on ““Multiphase Flow- Research and Applications (MFRA-2023)” organized by Department of Chemical Engineering, IIT Kharagpur sponsored by DST held on **11th March, 2023.**
9. Sutapa Roy Participated in the Workshop on “Multiphase Flow- Research and Applications (MFRA-2023)” organized by Department of Chemical Engineering & School of Energy Science & Engineering, IIT Kharagpur on **11th March, 2023.**
10. Somak Jyoti Sahu, participated one day workshop program on ““Multiphase Flow- Research and Applications (MFRA-2023)” organized by Department of Chemical Engineering, IIT Kharagpur sponsored by DST held on **11th March, 2023.**

2021-22

1. **Siddhartha Sankar Boxi**, Participated in Five day online Workshop and Technical Quiz on "Industrial Process Safety Management" (PSM 2021) organized by Dept. of Chemical Engg. & IQAC, Haldia Institute of Technology in association with HRC, IChE, during **13 – 17th Dec, 2021.**
2. **Sunil Baran Kuila**, Five Days Workshop on Industrial Process Safety Management, **13- 17th December, 2021** in association with Students’ Chapter – IChE
3. **Barnali Bej**, Participated in Five day online Workshop and Technical Quiz on "Industrial Process Safety Management" (PSM 2021) organized by Dept. of Chemical Engg. & IQAC, Haldia Institute of Technology in association with HRC, IChE , during **13 – 17th Dec, 2021.**
4. **Barnali Bej**, Participated in Sixth Lecture Workshop on "Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee, as part of the

lecture "DNA cutting and Shredding: how bacteria prevent phage attacks" organized by National Academy of Sciences India- Delhi chapter & Deen Dayal Upadhyaya College on 03rd Jan, 2022.

5. **Barnali Bej**, Participated in Sixth Lecture Workshop on "Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee, as part of the lecture "Affordable Healthcare Technologies in Sensing, Drug Delivery and Therapy" organized by National Academy of Sciences India- Delhi chapter & Deen Dayal Upadhyaya College on 10th Jan, 2022.
6. **Keka Rana**, attended a five days online workshop & technical quiz on industrial process safety management (PSM-2021), organized by Department of Chemical Engineering, HIT in association with Internal Quality Assurance Cell (IQAC), HIT & Students' Chapter, HALDIA Regional Centre (HRC), IICHE, Haldia-721657, Purba Medinipur, W.B, INDIA, during 13th – 17th December, 2021.
7. **Keka Rana**, attended a "NPTEL E- Awareness" workshop organized by NPTEL in collaboration with IIT Madras and Haldia Institute of Technology, on 6th January 2022.
8. **Keka Rana**, attended a SIXTH Lecture Workshop (online) on "Trans-disciplinary areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee", as part of the Lecture Workshop on "DNA cutting and shredding: how bacteria prevent phage attacks", organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, on January 03, 2022.
9. **Keka Rana**, attended a SIXTH Lecture Workshop (online) on "Trans-disciplinary areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee", as part of the Lecture Workshop on "Understanding the social language of bacteria: Speak or not to speak?", organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, on January 07, 2022.
10. **Keka Rana**, attended a SIXTH Lecture Workshop (online) on "Trans-disciplinary areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee", as part of the Lecture Workshop on "Affordable Healthcare Technologies in Sensing, Drug Delivery and Therapy", organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, on January 10, 2022.

11. **Keka Rana**, attended a SIXTH Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swaup Bhatnagar (SSB) Awardee”,as part of the Lecture Workshop on “Cryptographic Engineering: Journey from Theory to Practice”, organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, *on January 14, 2022.*
12. **Keka Rana**, attended a SIXTH Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swaup Bhatnagar (SSB) Awardee”,as part of the Lecture Workshop on “Alzheimer’s Disease: Diagnostics to Therapeutics”, organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, *on January 19, 2022.*
13. **Keka rana**, attended a SIXTH Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swaup Bhatnagar (SSB) Awardee”,as part of the Lecture Workshop on “Organic-Inorganic Hybrid Materials for Capture, Separation and Chemical Conversion of CO₂”, organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, *on January 21, 2022,.*
14. **Keka Rana**, attended a SIXTH Lecture Workshop (online) on “Trans-disciplinary areas of Research and Teaching by Shanti Swaup Bhatnagar (SSB) Awardee”,as part of the Lecture Workshop on “Evolution of Darwin’s Finches from Ecology to Genomics”, organized by The National Academy of Sciences, India, Allahabad in collaboration with Deen Dayal Upadhyaya College, University of Delhi and Under Aegis of DBT Star College Program, *on January 24, 2022.*
15. **Aditi Sinha**, participated as co-convenor in five days online workshop & technical quiz on “ Industrial Process Safety Management (PSM-2021), organised by Haldia Institute of Technology , during 13-17th Dec,2021.
16. **Lipika Das Samanta**, Participated in five days online workshop & technical quiz on “Industrial Process Safety Management (PSM-2021)”organized by Department of Chemical Engineering, HIT in association with internal quality assurance cell (IQAC), HIT & students' chapter, Haldia Regional Centre (HRC), IICChE Haldia-721657, Purba Medinipur, West Bengal, india, during 13 – 19th December, 2021.
17. **Lipika Das Samanta**, participated in the NPTEL E-Awareness workshop on 6th January, 2022.

18. **Sutapa Roy** attended five days online Workshop and Technical Quiz on " Industrial Process Safety Management (PSM 2021)" organized by Department of Chemical engineering, Haldia Institute of Technology, during 13th - 17th Dec, 2021.
19. **S. J Sahu** participated in five days online workshop & technical quiz on "Industrial process Safety management (PSM -2021)", organized by Haldia Institute of Technology, West Bengal, India, 13 - 17th Dec, 2021.
20. **Sonali Samanta**, Participated in Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee programme on "Affordable Healthcare Technologies in Sensing, Drug Delivery and Therapy" organized by Department of BSBE, IIT Bombay, Powai, on 10th Jan, 2022.
21. **Sonali Samanta**, Participated in Trans-disciplinary Areas of Research and Teaching by Shanti Swarup Bhatnagar (SSB) Awardee programme on "Alzheimer's Disease: Diagnostics to Therapeutics" organized by Bio-organic Chemistry Laboratory, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, on 19th Jan, 2022.
22. **Tapas Kumar Manna**, Participated in Five Days Online Workshop & Technical Quiz On "Industrial Process Safety Management (PSM-2021)" organized by Department of Chemical Engineering, HIT in association with Internal Quality Assurance Cell (IQAC), HIT & Students' Chapter, Haldia Regional Centre (HRC), IICHe, Haldia-721657, Purba Medinipur, W.B, India., during 13 – 17th December, 2021.