Photo: 

Name: Dr. Yogesh Jayasing Chendake

Qualification: Ph. D. (Tech.) – Chemical Engineering

Designation : **Associate Professor**

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Experience (years):

Teaching: 12**,**

Industry: 0**,**

Research: 11

Portfolio at college level:

1. Member, Board of Studies, Department of Chemical Engineering
2. Head, NAAC Criteria III compilation for university AQAR
3. NBA coordinator for department
4. Chairman Research Methodology – PhD Course work

Conferences: National/ International (Participation and publication):

1. Y. J. Chendake, U. K. Kharul, Acid transport through polymeric membranes, DAE-BRNS Biennial Symposium on Emerging Trends in Separation Science and Technology (SESTEC), 2010, IGCAR Kalpakkam, India.
2. Y. J. Chendake, U.K. Kharul, Separation of lactic acid by chemodialysis, Indo-Euro workshop on membrane separation (MEMSEP), 2011, Anna University, Chennai, India.
3. Y. J. Chendake, U. K. Kharul, Transport of acids through polymeric membranes, Polymer science and technology: vision and scenario, Polymeric congress (APA), 2009, IIT Delhi, India.
4. A. R. Ahire, Y. J. Chendake, U. K. Kharul, Selective permeation of acid through polymeric membranes, Recent advances in polymeric materials (MACRO), 2009, IIT Chennai, India.

5. Y. J. Chendake, P. B. Karadkar, U. K. Kharul, R. V. Gadre, V. V. Jogdand, Transport of carboxylic acids through polymeric membranes, International conference on membrane science and technology (ICCMR), 2008, CGCRI Kolkata, India.
6. Supriya Dhume, Atharva Baxi, Risika Jakhanwal, Recovery milk components in dairy effluent, International conference on Nanotechnology (NANOCON 2018), BUDUCOE Pune, India
7. Pallavi Mahajan-Tatpate, Supriya Dhume, Yogesh Chendake, Use of ultrafiltration membranes for heavy metal separation: a review, International conference on Energy and Environment, ICEE 2019, VIT Pune, India
8. Pallavi Mahajan-Tatpate, Supriya Dhume, Yogesh Chendake, Recovery of Chromium using Membrane containing charged Material, Advances in Thermal – Fluid engineering, ATFE 2021, Pandit Deendayal Petroleum University, Gandhinagar, Gujrat, India
9. [9] Pallavi Mahajan-Tatpate, Supriya Dhume, Yogesh Chendake, Recovery of Copper from Industrial Effluent for Water Recycle and Reuse, International Conference on Water Desalination, Treatment & Management & Annual Congress of InDA (InDACON-2021), BARC Mumbai, India.
10. Pallavi Mahajan-Tatpate, Supriya Dhume, Yogesh Chendake, Copper Separation from Industrial Wastewater using Membrane, International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021), Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, India.
11. Aniket. S. Jadhav, Sachin Chavan, Yogesh Chendake, I.A. Shaikh, Synthesis and Characterization of TiO2 Nanomaterial Based Thin Films for Agriculture with Climatic Control, International Conference on Recent Development on Mechanical Engineering (IRCDME - 22), Shree Ramdeobaba College of Engineering and Management, Nagpur (23,24 September 2022) – Best paper award.
12. Bahadure Nilesh, Khomane Ramdas, Raut Deep, Chendake Yogesh, Routray Sidheswar, Mishra D. 2024, Regression Model Selection for Life Expectancy Prediction: A Comparative Analysis of Imputation Techniques, ICARC 2024 - 4th International Conference on Advanced Research in Computing: Smart and Innovative Trends in Next Generation Computing Technologies, 49-54. https://doi.org/10.1109/ICARC61713.2024.10499788

Publications: National/ International Journal

1. Y. J. Chendake, U. K. Kharul, Transport of organic acids through polybenzimidazole based membranes by Chemodialysis, Accepted in J. Membr. Sci., 451 (2014) 243-251

2. Y. J. Chendake, U. K. Kharul, Transport of inorganic acids through polybenzimidazole (PBI) based membranes by chemo-dialysis, Des. Water Treat. 38 (2012) 96-103
3. Y. J. Chendake, Y. S. Bhole, H. R. Lohokare, and U. K. Kharul, Polyarylate based thin film composite (TFC) membranes: effects of coating parameters, gutter layer, and intrinsic material properties, Sep. Sci. Tech. 45 (2010) 163-171
4. Supriya S. Dhume, Yogesh J. Chendake, Rahul K. Kulkarni, Improvement in process economy by using RO retentate from seawater desalination into sodium carbonate production, Int. J. Adv. Technol. Eng. Sci., 3 (2015) 199-206
5. Jayant S. Phale, Yogesh J. Chendake, Polysulfone based ultrafiltration membrane preparation by phase inversion: parameter optimization, Int. J. Sci. Res., 5 (2016) 2569 - 2573
6. Ishan. I. Shaikh, Yogesh J. Chendake, Removal of ammonium nitrate from aquaculture by sorption using zeolite, Int. J. Rec. Sci. Res., 7 (2016) 11869-11874
7. Pravin R. Jedhe, Yogesh J. Chendake, Biogas - renewable energy source: optimization of production and application, Int. Res. J. Eng. Technol., 3 (2016) 374 – 379
8. Akshay Khade, Yogesh J. Chendake, Improvement in Polysulfone (PSf) Film Properties by Porogen Concept, Int. J. Res. Appl. Sci. Eng. Technol., 5 (2017) 2303– 2309
9. Manisha A. Khedkar, Pranhita R. Nimbalkar, Prakash V. Chavan, Yogesh J. Chendake, Sandip B. Bankar, Cauliflower waste utilization for sustainable biobutanol production: revelation of drying kinetics and bioprocess development, Bioprocess BiosystEng, 40 (2017)1453 – 1506, DOI: 10.1007/s00449-017-1806-y
10. Pritesh Ghatawat, Yogesh Vankar, Supriya Dhume, Yogesh Chendake, Separation and Recovery of Milk Components from Dairy Effluent, Inter. J. Eng. Res. Technol., 8 (2019) 884 – 888
11. Aniket S. Jadhav, Sachin Chavan, Yogesh Chendake, Pinal Gandha, Effect of temperature, light, ultraviolet radiation and humidity on the productivity of crops in an agricultural field, Inter. J. Mech. Prod. Eng. Res. Dev., 10 (2020) 8505 - 8511
12. Supriya S. Dhume, Pallavi Mahajan-Tatpate, Yogesh J. Chendake, Optimization of PSF Membrane Transport Properties with the Use of Porogenic Additive, J. Appl. Membr. Sci. Technol., 24 (2020) 57–74
13. Pallavi Mahajan-Tatpate, Supriya Dhume, Yogesh Chendake, Removal of heavy metals from water: Technological advances and today's lookout through Membrane Applications, Inter. J. Membr. Sci. Technol., 8 (2021) 1-21, https://doi.org/10.15379/2410-1869.2021.08.01.01
14. Pallavi Mahajan-Tatpate, Supriya Dhume, Yogesh Chendake, Recovery of chromium using membrane containing charged material, IOP Conf. Ser.: Mater. Sci. Eng. 1146 (2021) 012022; DOI 10.1088/1757-899X/1146/1/012022

15. Yogesh Wadhvane, Yogesh Chendake, Anand Kulkarni, Kavita Kulkarni, Microwave assisted synthesis of antimicrobial nano-films from Water Hyacinth (Eichhornia crassipes) and Roselle (Hibiscus Sabdariffa) plant extract, J. Biomimetics Biomater Biomed Eng., 56 (2022) 37-48 https://doi.org/10.4028/p-ixf3fr; https://www.scientific.net/JBBBE.56.37
16. Kavita Kulkarni, Sivakrishna Dhulipudi, Yogesh Chendake, Anand Kulkarni, C. V. Subrahmanyam, Adsorptive Removal of Copper and Chromium Ion by Using Azospirillum Biofertilizer as Low-cost Biosorbentin Aqueous Medium, Water Air Soil Pollut,233 (2022) 233:245 https://doi.org/10.1007/s11270-022-05707-5
17. Kavita Kulkarni; Rahul Kulkarni; Yogesh Chendake; Arghya Garg; Pragati Srivastava, Adsorptive Removal of Acetic Acid by Walnut Shell as Low-Cost Adsorbent, Asian J. Chem. 34 (2022) 2318-2324, DOI: https://doi.org/10.14233/ajchem.2022.23851
18. Swapnil Namekar, Deepak Bankar, Vishal Mehtre, Yogesh Mandake, Yogesh Chendake, Development and optimization of Dual Non-uniform electric field and Frequency modulation (Di-electrophoresis) technique for cell sortingon the basis of viability and size, Mukt Shabd Journal, 11 (2022) 529 -538, DOI:09.0014.MSJ.2020.V9I3.0086781.356
19. Pallavi Mahajan-Tatpate, Supriya Dhume, Sachin Chavan, Yogesh Chendake, Acid-Modified ZnO Nanoparticles Embedded Polysulfone Membranes for Separation of Copper from Industrial Wastewater, Inter. J. Membr. Sci. Technol., 9 (2022) 67 – 76, https://doi.org/10.15379/2410-1869.2022.07
20. Aniket. S. Jadhav, Sachin S. Chavan, Yogesh Chendake, I.A. Shaikh, Synthesis and Characterization of Nanomaterial Based Polymeric Thin Films for Agriculture with Climatic Control, Asian J. Chem. 35 (2023) 57-61, DOI: 10.14233/ajchem.2023.24015
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22. Kavita Kulkarni, Sunny Kurhade, Yogesh Chendake, Anand Kulkarni, Satchidanand Satpute, Utilization of Low Cost Biofertilizers for Adsorptive Removal of Congo Red Dye,Bulletin of Environmental Contamination and Toxicology, 111 (2023) 33; https://doi.org/10.1007/s00128-023-03784-8
23. Pallavi Mahajan-Tatpate, Supriya Dhume, Naveenkumar Jayakumar, Yogesh Chendake, Sachin Chavan, Ramdas Khomane, Vinayak Wadagaonkar, Separation of Cr and Mn by Polysulfone(PSF) based Ultrafiltration(UF) Membranes Anchored with Nanoparticles - Mathematical Analysis of Rejection Properties, Environmental Engineering Research, 29 (2024) 230543, Doi: https://doi.org/10.4491/eer.2023.543

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25. N. B. Bahadure, R. Khomane, D. Raut, Y. Chendake, S. Routray and D. P. Mishra, "Regression Model Selection for Life Expectancy Prediction: A Comparative Analysis of Imputation Techniques," 2024 4th International Conference on Advanced Research in Computing (ICARC), Belihuloya, Sri Lanka, 2024, pp. 49-54, DOI: 10.1109/ICARC61713.2024.10499788.

26. P. S. Ranaware, P. L. Chaudhari, S. C. Bandpatte, Mohd. Ajmal, D.P. Bhatt and Y. J. Chendake, Optimization of membranes for treatment of textile industrial effluent, Rasayan J. Chem., 17 (2024), 985-992. http://doi.org/10.31788/RJC.2024.1738902

27. Supriya Dhume, Yogesh Chendake, Pallavi Mahajan-Tatpate, Sachin Chavan, Ramdas Khomane, Naveenkumar Jayakumar, Optimization of Polysulfone Based Membranes Using Charged Graphite Nano platelets for Separation of Manganese and Chromium (VI) from Water, Water Air Soil Pollut 235 (2024) 560https://doi.org/10.1007/s11270-024-07375-z.

28. Harshada Mhetre, Yogesh Chendake, Manan Nayyar, Piyush Kumar, Sarvesh Sorte, Nithesh Naik, Salmataj S A and Pavan Hiremath, Harnessing the potential of electrospun TiO2 nanofibers and nanoparticles enriched with natural dyes: a path towards affordable solutions for low-cost electronic devices, Mater. Res. Express 11 (2024) 105002 DOI:10.1088/2053-1591/ad7fb8

29. Aniket Jadhav, Sachin Chavan, Kailasnath Sutar, Yogesh Chendake, Israr A Shaikh and Mukesh Kumar Sihna, Experimental investigation on climate-control nano-composite polycarbonate sheets enhanced with TiO2, ZnO, and zeolite nanoparticles for polyhouse use, Eng. Res. Express 6 (2024) 045553, DOI: 10.1088/2631-8695/ad923b

30. Mali Sonali D., Yogesh Chendake, Mrunal Bewoor, Vikram R. Patil, Priyanka Paygude, and Roshni V., Plant Derived Nanoporous Carbon Materials: A Brief Review On Sustainable Alternative With Advance Applications, Metallurgical and Materials Engineering, 31 (2025) 646-665. ISSN (Online) 2812-9105, ISSN (Print) 2217-8961 https://doi.org/10.63278/mme.vi.1620. (Scopus: https://www.scopus.com/sourceid/21100913883 and WoS: https://mjl.clarivate.com://search-results?issn=2217-8961,0921-5093,1073-5623,1073-5615,1002-185X,1438-1656,0959-2989,1001-4381,8756-758X,0971-4588&hide_exact_match_fl=true&utm_source=mjl&utm_medium=share-by-link&utm_campaign=search-results-share-these-results)

31. Shashank S. Gawade, Pradeep A. Patil, Virendra K. Bhojwani, Yogesh J. Chendake, Ramdas B. Khomane4 Impact of Payload, Speed, and Rolling Resistance on Battery Performance in Electric Vehicles, Accepted in Cogent Engineering
32. Goyal Ankush, Chavan Sachin S., Mohite Rajendra A., Shaikh Israr A., Chendake Yogesh, Mohite Dadaso D., Emerging trends and perspectives on nano-fertilizers for sustainable agriculture, Discover Nano, 20 (2025) 97, ISSN - 2731-9229, https://doi.org/10.1186/s11671-025-04286-8
33. Dadaso D. Mohite, Sachin S. Chavan, Prasad E. Lokhande, Kailasnath B. Sutar, Yogesh Chendake, Sumit Dubal, Amol Vedpathak, Udayabhaskar Rednam, D. N. Raut, Deepak Kumar & A. RamaKrishna, Taguchi-based optimization of electrospinning parameters for controlling PAN/ZnO nanofiber diameter and morphology. J Mater Sci: Mater Electron 36, 1461 (2025). https://doi.org/10.1007/s10854-025-15520-5

Publications: Book Chapter

1. Supriya Dhume, Yogesh Chendake, Membrane technology for green engineering, in Applied Biopolymer Technology and Bioplastics – Sustainable Development by Green Engineering Materials, Apple Academic Press (April 2021) https://www.appleacademicpress.com/applied-biopolymer-technology-and-bioplastics-sustainable-development-by-green-engineering-materials/9781771889216
2. Pallavi Mahajan – Tatpate, Supriya Dhume, Yogesh Chendake, Carbon nanomaterial embedded membranes for heavy metal separation – Carbon Nanotubes for Green Environment, Apple Academic Press, CRC publications (June 2022) https://www.appleacademicpress.com/carbon-nanotubes-for-a-green-environment-balancing-the-risks-and-rewards/9781774638620%201/3
3. Pallavi Mahajan – Tatpate, Supriya Dhume, Yogesh Chendake, Sachin Chavan, Application of Nanomaterial Modified Membranes aimed to Separate Heavy Metal Pollutants - Green & sustainable nanomaterials for engineering applications, Apple Academic Press, CRC publications (February 2023) https://www.appleacademicpress.com/advances-in-green-and-sustainable-nanomaterials-applications-in-energy-biomedicine-agriculture-and-environmental-science/9781774911662
4. Garima Shandilya, Yogesh Chendake, Sachin Chavan, Green Nanotechnology for Renovating Phytomedicines - Green & sustainable nanomaterials for engineering applications, Apple Academic Press, CRC publications (January 2023 Accepted) https://www.appleacademicpress.com/advances-in-green-and-sustainable-nanomaterials-applications-in-energy-biomedicine-agriculture-and-environmental-science/9781774911662

5. Sonali Dhamal, Yogesh Chendake, Sachin Chavan, Natural origin biodegradable polymer bandages and structures loaded with nano-medicines for biomedical applications - Innovations in Green Nanoscience & Nanotechnology: Synthesis, Characterization & Applications, Routledge, CRC publications (January 2023 Accepted) https://www.routledge.com/Innovations-in-Green-Nanoscience-and-Nanotechnology-Synthesis-Characterization/Kulkarni/p/book/9781032333281
6. Kavita Kulkarni, Yogesh Chendake, Anand Kulkarni, Plant based Antimicrobial Nanofilms - Innovations in Green Nanoscience & Nanotechnology: Synthesis, Characterization & Applications, Routledge, CRC publications (January 2023 Accepted) https://www.routledge.com/Innovations-in-Green-Nanoscience-and-Nanotechnology-Synthesis-Characterization/Kulkarni/p/book/9781032333281
7. Dhume, S., Mahajan-Tatpate, P., Chendake, Y., Chavan, S. (2023). Separation of Heavy Metals from Metal Industry Effluent for Acid Recovery. In: Siddiqui, N.A., Baxtiyarovich, A.S., Nandan, A., Mondal, P. (eds) Recent Advances in Recycling Engineering . AIR 2021. Lecture Notes in Civil Engineering, vol 275. Springer, Singapore. https://doi.org/10.1007/978-981-19-3931-0_16; https://link.springer.com/chapter/10.1007/978-981-19-3931-0_16
8. Yogesh Chendake, Harshada Mhetre, Supriya Khatavkar, Vishal Mehtre, Swapnil Namekar, Vikas Kaduskar, Prashant Chougule, Graphene: A Promising Material for Flexible Electronic Devices, In: Patel, S.K., Taya, S.A., Das, S., Vasu Babu, K. (eds) Recent Advances in Graphene Nanophotonics. Advanced Structured Materials, vol 190. Springer, Cham. https://doi.org/10.1007/978-3-031-28942-2_5
9. Kanawade, R., Chendake, Y.J., Asthana, S., Panda, S.R. (2025). Nanomaterials for Capturing and Storing CO_2: A Sequestration Approach. In: Desimone, M.F., Jotania, R.B., Khomane, R.B., Chaudhary, R.G. (eds) Nanotechnology. Nanotechnology in the Life Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-86508-4_7
10. Mhetre, H., Goyal, A., Kaduskar, V., Namekar, S., Chendake, Y., Khomane, R.B. (2025). Integrating Nanoscience in the Realm of Renewable Energy. In: Desimone, M.F., Jotania, R.B., Khomane, R.B., Chaudhary, R.G. (eds) Nanotechnology. Nanotechnology in the Life Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-86508-4_10
11. Chaudhari, P. Yogesh Chendake, Vishal Mhetre, S. D. Jadhav, Khomane R. B, Kanawade R. B. (2025). Revolutionizing Water Purification Through Nanotechnology. In: Desimone, M.F., Jotania, R.B., Khomane, R.B., Chaudhary, R.G. (eds) Nanotechnology. Nanotechnology in the Life Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-86508-4_11

Patents/ Copyright:

1. Kharul U. K., Gadre R. V., Jogdand V. V., Chendake Y. J., Polybenzimidazole based membrane for deacidification, WO 2010/097681 (EP2401066B1,CA2735411A1,US9415352)
2. Anand Bhalerao, Yogesh Chendake, Sachin Chavan, Supriya Dhume, Pallavi Mahajan – Tatpate, Akhay Khade, A Process for Preparing an Ultrafiltration Membrane for Separation of Heavy Metals, Indian Patent 201921032915, Patent No. 408073
3. Chavan Sachin Shankarrao, Chendake Yogesh Jayasing, Bhalerao Anand Ramchandra, Bansod Samiksha, Gund Sailee, Disinfectant Nanofibers and Process for Their Preparation, Indian Patent Application 202021023810
4. Chavan Sachin Shankarrao, Sunil Jagannath Kadam, Sachin Marotrao Shendokar, Tukaram Dattatray Dongale, Chendake Yogesh Jayasing, Cost-Effective Electrospinning Setup for Synthesis of Nanofibers, Indian Patent Application 202121004762
5. Sachin Shankarrao Chavan, Aniket Sanjay Jadhav, Yogesh Jayasing Chendake, Israr Ahmed Shaikh, Nano Particle Doped Polycarbonate Sheets for Temperature Control of Polyhouse, Indian Patent Application 202321043714.
6. Chavan Sachin, Chendake Yogesh, Kanu Nand, Mohite Rajendra, Mohite Suhas, Narkhede Balkrishna, Shendokar Sachin, A system for developing nylon 6,6 nanofibers interleaved e-glass fiber reinforced epoxy composites, German Patent No. 20 2023 105 831, IPC No. C08J 5/04.
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8. Nilam Sanjay Lohar, Nikhil Sanjay Lohar, Yogesh Chendake, A novel Jambhul juice processing method, Indian Patent Application 202521038559

Projects:

1. Preparation of ultrafiltration membranes with low fouling properties for different applications
   Funding agency – BVUCOE, Pune
   Amount – Rs. 1.19 L
   Duration – 2014 - 2016
   Status - Completed
2. Ultrafiltration membrane with desired permeation properties
   Funding agency: Bharati Vidyapeeth Deemed University, Pune
   Amount – Rs. 32,000
   Duration – 2015 – 2016
   Status - Completed
3. Preparation of Ultrafiltration Membranes with precise control on pore morphology and permeation characteristics for water treatment application

Funding agency: TEQIP-II
Amount – Rs. 2.75 L
Duration – 2016 – 2018
Status - Ongoing

4. Charged graphite nanoplateletes anchored Ultrafiltration Membranes for separation of heavy metals from water
   Funding agency: DST Nanomission
   Amount – Rs. 33.75 L
   Duration – 2018-2020
   Status –Completed
5. Customize design and fabrication of metal gyroid labyrinth samples and their analysis.
   Funding agency: Bharati Vidyapeeth Deemed University – Co Funded by: Wipro 3D
   Amount – Rs. 2.25 L by BVDU + Rs. 1.2 L by Wipro 3D
   Duration – 2020-2022
   Status –Completed
6. Extraction of Chitosan for porous biodegradable and biosorbable dressing material impregnated with antimicrobial nano particle.
   Funding agency: Bharati Vidyapeeth Deemed University
   Amount – Rs. 1.00 L
   Duration – 2025-26
   Status – Ongoing

Achievements:

1. **Professional Memberships**
   International Association of Engineers (Membership No. 157570)
   International Society for Development and Sustainability (ISDS), Japan (ID: M171763)
   Institute for Engineering Research and Publication(IFERP)
   Indian Institute Of Chemical Engineers – Life Membership
2. **Reviewer**
   Nanomaterials and Energy
   Journal of Polymer Engineering
   Journal of Applied Polymer Science
   Journal of Hazardous Material
   Water Science and Technology: Water Supply
   Environmental Engineering Research
   Green Materials
   International Journal of Chemical Reactor Engineering

Materials Today: Proceedings

3. Member of editorial board, "Journal of Energy, Environmental & Chemical Engineering (http://www.jeece.org)"
4. Member executive committee – NBA Margdarshak Scheme – Sponsored by AICTE 2022 – 23
5. Member, Board of Studies, Paper and Printing Technology – Savitribai Phule Pune University
6. Convener National conference: SANVARGAM – 2016
7. Conference session judge: PRAKALP - 2016
8. Conference session judge: PRAKALP – 2017
9. National advisory committee member: International Conference On Technological Innovation In Engineering And Management-2017 (ICTIEM-17)
10. Member outreach committee: International conference on startup ventures: Technology developments and future strategies (SV-TDFS) – 2018 (Ministry of External Affairs, Springer, IFERP, Manipal University, IOP publishing)
11. Expert lecture: AISSMS COE Pune on "Membrane separation in effluent treatment: recovery perspective", 07th September, 2018.
12. Convener, workshop on "Advances in effluent treatment: industrial perspective", 5, 6 October 2018
13. Expert, workshop on "Sustainable Development through Green Technology", April 2019.
14. Coordinator AQAR criteria III – NAAC for Bharati Vidyapeeth (Deemed to be University) – Since 2022
15. Member executive committee – NBA Margdarshak Scheme – Sponsored by AICTE 2022 - 23
16. Expert lecture: on "Membrane Separation in Effluent Treatment: Recovery Perspective", in two day seminar on "Recent Advances In Separation Technology" organized by IIC Sinhagad College of Engineering Pune, 3,4 May 2023.