

Faculty Profile



Dr. A. Balasubramanian, M.Tech., Ph.D
HoD (i/c) – Chemical Engineering

HIGHLIGHTS:

- Number of Journal Publications: 9
- H-Index: 7
- Project Funding Received: Rs. 10000 (From IICHE)

PROFESSIONAL LINKS:

- Scopus ID: 54912567400
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=54912567400>
- Google Scholar ID: <https://scholar.google.com/citations?hl=en&user=D8xAO9IAAAAJ>
- Anna University Faculty ID: 2122478
- AICTE Faculty ID: 1-4576153634
- Anna University Supervisor ID: 4150012
- LinkedIn: <https://www.linkedin.com/in/dr-balasubramanian-a-50004414/>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 11 Years 6 Months
- Industrial Experience: 1 Year

AREA OF SPECIALIZATION:

- Desalination
- Wastewater Treatment
- Separation Technology
- Batteries and Fuel cells

COURSES CERTIFIED:

- International Engineering Educator Certification Program, IGIP, Austria, Canvas, 2023.
- Excel Skills for Business: Essentials, Macquarie University, Coursera, 2020.
- Oil & Gas Industry Operations and Markets, Duke University, Coursera, 2020.
- Programming for Everybody (Getting Started with Python), University of Michigan, Coursera, 2020.

ACHIEVEMENTS AND AWARDS:

- Exemplary Leadership Award, The Institution of Engineers (India), Kanchipuram Local Centre, October 2024.

SPECIAL SESSIONS DELIVERED:

- Given a talk on “Current Challenges and future prospects of AI and ML Implementation in the Pharmaceutical Industry”, Saveetha College of Pharmacy, Chennai, Tamilnadu, March 2nd, 2023.
- Given a talk on “Energy from Biomass and waste”, Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, August 29th, 2022.
- Invited as Session chair in IICHE’s “International Conference on Advances in Chemical & Material Sciences (ACMS-2022)”, Heritage Institute of Technology, Kolkata, April 14th -16th, 2022.
- Given a talk on “World Water Day”, Department of Chemical Engineering, Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, March 22nd, 2022.
- Given a talk on “Metal Organic Frameworks for the Capture of Toxic Chemicals”, AICTE Sponsored 5 Days ATAL FDP on “Waste Technology – Energy Conservation and Utilization”, Department of Chemical Engineering, Mohamed Sathak Engineering College, Kilakarai, Tamilnadu, November 9th, 2021.
- Given a talk on “An Overview of Nuclear Energy & Power Reactors”, International Seminar on “Recent Advancement in Chemical Engineering Field”, Department of Chemical Engineering, Saveetha Engineering College, Chennai, July 15th, 2020.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- TEQIP-III sponsored Three days online workshop on "Future of Chemical Engineering", Department of Chemical Engineering, IIT (ISM) Dhanbad and IChE, Dhanbad Regional Center, 19th – 21st March 2021.

- TEQIP-III sponsored Three days online workshop on “Experimental Methods in Analytical Electrochemistry and Advanced Chemical Engineering”, Department of Chemical Engineering, Ujjain Engineering College, Ujjain, 23rd – 25th November, 2020.
- Three Days International Workshop on “Technology Development of E-Vehicles”, Department of EEE, Sri Venkateswara College of Engineering, Sriperumbudur, 28th – 30th May, 2020.
- Two days online Workshop on “MATLAB applications in Process Simulation and Control”, Department of Chemical Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, 23rd – 24th May, 2020.
- Attended one day National Seminar on Future Challenges and Opportunities in Chemical Engineering Organized by Department of Chemical Engineering at Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai, September 18, 2019.
- Presented a paper in CHEMCON 2015 - Indian Chemical Engineering Congress, titled “Statistical optimization of emulsion ionic liquid membrane for phenol removal from aqueous solution and industrial effluents”, December 27th -30th, 2015.
- Presented a paper in CHEMCON 2015 - Indian Chemical Engineering Congress, titled “Experimental analysis and mass transfer model for removal of Phenol from wastewater using emulsion ionic liquid Membrane”, December 27th -30th, 2015.
- National workshop on “Desalination by Membrane Distillation” at St. Joseph College of Engineering, Chennai, August 24th & 25th, 2012.
- National workshop on “Troubleshooting in HPLC Techniques” at Anna University Tiruchirappalli, September 10th, 2011.
- Presented a paper at “CHEMCON-2010” Annamalai University, Chidambaram, titled “Studies on removal of phenolic compounds from wastewater using Supported Liquid Membrane Technique”, December 27th - 29th, 2010.
- Presented a paper in the National Conference on “Clean, Green Environment by implementing Renewable Energy Technologies” conducted at Oxford Engineering College, Pirattiyur; July 16th & 17th, 2010.
- Presented paper in the Fourteenth National Convention of Electrochemists (NCE-14) conducted at the Indira Gandhi Center for Atomic Research (IGCAR), Kalpakkam, December 6th & 7th, 2007.

PROFESSIONAL MEMBERSHIPS:

- Life Member (LM-70783) in Indian Institute of Chemical Engineers, (IChE).
- Member (M-1767164) in The Institution of Engineers (India), (IEI).

FACULTY DEVELOPMENT PROGRAMME (FDP) ATTENDED

- Five days online FDP on “Energizing Sustainability through Renewable Energy Systems”, Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur, 18th – 22nd March, 2024.
- Five days online FDP on “Process Intensification in Chemical Engineering”, Department of Chemical Engineering, Vishwakarma Institute of Technology, Pune, 5th – 9th February, 2024.
- Six days online FDP on “Additive Manufacturing Advancements in Different Applications”, Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram, 26th – 31st December, 2023.
- Five days online FDP on “Sustainability in Process Engineering”, Department of Chemical Engineering, MIT World Peace University, Pune, 18th – 22th December, 2023.
- Three days online FDP on “Oil and Gas Industry”, Indian Oil Corporation & PALS, 2nd – 4th May, 2023.
- Five days online FDP on “Recent Advances in Chemical Engineering (RACE-22)”, Department of Chemical Engineering, Rajalakshmi Engineering College, 8th – 12th November, 2022.
- NPTEL FDP on “Technologies for Clean and Renewable Energy Production”, IIT Madras, 25th July – 16th September, 2022.
- ATAL Academy Online Elementary FDP on "Computational Mathematics using Computer Algebra Systems with Applications to Machine Learning", Institute of Chemical Technology, Mumbai, 11th - 15th February, 2022.
- Five Days online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by AICTE, 12th – 16th July, 2021.
- ATAL Academy Online Elementary FDP on "Plastics Recycling and Waste Management", Central Institute of Petrochemicals Engineering and Technology (CIPET), 14th -18th June, 2021.
- ATAL Academy Online Elementary FDP on "Industry Oriented FDP on Artificial Intelligence", MSME-Technology Development Centre (PPDC), Meerut, 7th - 11th June, 2021.
- ATAL Academy Online Elementary FDP on "Environment, Energy, Health and Safety: Trends & Industrial Aspects", Karmaveer Kakasaheb Wagh Polytechnic, Nashik, 17th – 21st May, 2021.

- ATAL Academy Online FDP on "Waste Technology", CV Raman Global University, Bhubaneswar, 21st – 25th December, 2020.
- ATAL Academy Online FDP on "Green Technology & Sustainability Engineering", National Institute of Technology, Raipur, 8th – 12th December, 2020.
- AICTE Training And Learning (ATAL) Academy Online FDP on "Waste Technology", Manipal University, Jaipur, 2nd – 6th November, 2020.
- Five days online FDP on “Advanced Materials and Surface Properties” organized by Department of Chemical Engineering of GMR Institute of Technology, Rajam, 26th – 30th October, 2020.
- Five days online FDP on “Machine Learning in Research Perspective”, Organized by the Department of Computer Science and Engineering, St. Joseph’s Institute of Technology, Chennai, 18th to 22nd July, 2020.
- Four days online FDP on Advanced Technologies in Chemical Industries, Department of Chemical Engineering in association with IChE-St. Peters College of Engineering and Technology Student Chapter, 23rd -26th June, 2020.
- Five days online FDP/ workshop, Inculcating Universal Human Values in Technical Education, AICTE, 11-15 May, 2020.
- MHRD Sponsored Two weeks online FDP on “Managing Online Classes and Co-Creating MOOCS”, Ramanujan College, University of Delhi, April 20th to May 06th, 2020.
- AICTE Sponsored Two weeks FDP on Creative Pedagogy and its Significance in Engineering Education, Saveetha TLC, Saveetha Engineering College, 22nd April 19 to 04th May 19.

SHORT TERM TRAINING PROGRAMME (STTP) ATTENDED

- AICTE Sponsored one-week STTP on “Optimization, Modelling and Simulation for Process Industries”, (MOSCHEMA III - 2021), Department of Chemical Engineering, Annamalai University, Chidambaram, 04th – 09th October, 2021.
- AICTE Sponsored one-week STTP on “Recent Advances in soft computing techniques for Optimizing Industrial Process”, (MOSCHEMA II - 2021), Department of Chemical Engineering, Annamalai University, Chidambaram, 27th September – 02nd October, 2021.
- AICTE Sponsored one-week STTP on “Modelling and Simulation of Industrial Processes”, (MOSCHEMA I - 2021), Department of Chemical Engineering, Annamalai University, Chidambaram, 20th – 25th September, 2021.

- AICTE Sponsored Six Days STTP on “Development of Chemical Engineering Thermodynamics Laboratory for Undergraduates, School of Engineering & Technology, GIET University, Duntur, 14th – 19th December, 2020.
- DST SERB Sponsored Five Days online STTP on “Electrochemical Technology for Environmental Treatment and Clean Energy Conversion”, ECTCEC 2020, Department of Chemical Engineering, National Institute of Technology, Calicut, 16th – 20th November, 2020.
- AICTE Sponsored one-week STTP on "Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education - Phase II", Department of Chemical Engineering, St. Joseph's College of Engineering, 24th – 29th August, 2020.

WORKSHOP/ CONFERENCE (NATIONAL / INTERNATIONAL) ORGANIZED:

- Organized a National level Intercollegiate Technical and Management Fest, DRESTEIN' 24, Saveetha Engineering College, Chennai, November 8th & 9th, 2024.
- Organized a 2 Days Workshop on “ASPEN Insight – Modeling Reactor and Distillation Processes”, Saveetha Engineering College, Chennai, November 5th & 6th, 2024.
- Organized a National Seminar on “Green Technology”, Saveetha Engineering College, Chennai, March 2nd, 2024.
- Organized a National level Intercollegiate Technical and Management Fest, DRESTEIN' 23, Saveetha Engineering College, Chennai, November 2nd & 3rd, 2023.
- Organized a 3 Days Workshop on “Hands on Training - Green Energy Production”, Saveetha Engineering College, Chennai, October 30th – 1st November, 2023.
- Organized a National Seminar on “Roles & Responsibilities of Chemical Engineers in the Petroleum Refinery Industry”, Saveetha Engineering College, Chennai, May 11th, 2023.
- Organized a National Seminar on “An Overview of Petroleum Refinery”, Saveetha Engineering College, Chennai, March 11th, 2023.
- Organized a National level Intercollegiate Technical and Management Fest, DRESTEIN' 22, Saveetha Engineering College, Chennai, November 18th & 19th, 2022.
- Organized a 2 Days Workshop on “Excel for Chemical Engineers”, Saveetha Engineering College, Chennai, November 16th & 17th, 2022.
- Organized a 5 Days Online Workshop on “ASPEN Plus – Chemical Engineering Applications”, Saveetha Engineering College, Chennai, October 20th & 26th, 2021.
- Organized a National level Intercollegiate Technical and Management Fest, E-DRESTEIN' 21, Saveetha Engineering College, Chennai, October 22th & 23th, 2021.

- Organized a National Seminar on “Current Trends in Chemical Engineering Field”, September 20th, 2020.
- Organized an International Seminar on “Recent Advancement in Chemical Engineering Field”, Saveetha Engineering College, Chennai, July 11th and 15th, 2020
- Organized a National level Intercollegiate Technical and Management Fest, DRESTEIN’ 19, Saveetha Engineering College, Chennai, September 6th & 7th, 2019.
- Organizing member of the National Conference on “Recent trends in petroleum exploration and production - PETRAMET’17”, AMET University, Chennai, March 30, 2017.
- Editor (Proceedings) and Organizing member of the International Conference on “Challenges and way ahead in Oil & Gas Industry - PETRAMET’15”, AMET University, Chennai, April 21st & 22nd, 2015.
- Organizing member and Editor (Proceedings) of the National Conference on “Emerging Interdisciplinary Trends of Chemical Technology”, “EITCT 2014”, Sathyabama University, March 6th & 7th, 2014.
- Organizing member and Editor (Proceedings) of the National Conference on “Emerging Interdisciplinary Trends of Chemical Technology”, “EITCT 2013”, Sathyabama University March 21st & 22nd, 2013.
- Organizing member of the National Conference on “Recent trends in Renewable Energy sources for Sustainable Development”, “NCRES2011”, Anna University Tiruchirappalli, February 22nd & 23rd, 2011.
- Organizing member of the National Conference on “Role of Renewable Energy in Energy Conservation”, “REEC 2010”, Anna University Tiruchirappalli, December 14th & 15th, 2010.