

Bio-data

Mr. Sainath K

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Education

Name of the Course	University/Institute	Year of Passing	Percentage of Marks/CPI	Remarks
B. E. (Chemical Engineering)	Visvesvaraya Technological University BMS College of Engineering, Bengaluru	2010	81	First Class with Distinction
M. Tech. (Chemical Engineering: Material Science and Technology)	IIT Guwahati Assam	2013	9.37	First Class with Distinction
Doctor of Philosophy, Ph.D.	IIT Bombay, Mumbai	Pursuing (From the academic year 2018-19)		

Personal Details

Date of Birth: July 07 1985

Sex: Male

Nationality: Indian

Marital Status: Married

Work Experience

- ✧ Working as Assistant Professor in the Department of Chemical Engineering, BMS College of Engineering.
- ✧ Worked with SAB Miller India, SKOL Breweries, Unit: Charminar Breweries, Shivampet, Sangareddy, Hyderabad for two and half years as Process Shift in charge.

Course Taught

Sl. No.	Name of the Course
1.	Chemical Process Equipment Drawing
2.	Material Science and Biomaterials
3.	Chemical Technology
4.	Mechanical Operations with laboratory
5.	Mass Transfer I with laboratory
6.	Chemical Equipment Design
7.	Transport Phenomena
8.	Applied Mathematics in Chemical Engineering (Numerical Techniques in Chemical Engineering)
9.	Interfacial Phenomena
10.	Chemical Process Equipment Design and Drawing
11.	Process Engineering Economics
12.	Composite Materials
13.	Novel Separation Technology
14.	Pilot Plant and Scale up Techniques

Projects Guided to Students

1. Removal of CO₂ using Aqueous Blends of Amines by Chemical Absorption Method: Modelling and Simulation: Bidushree R P, P Kinnera, Shubham Singh, Soham Roy Chowdhury, June 2014
2. Thermodynamic analysis of fluidized bed drying of carrots and modelling studies: Nitesh Agarwal, Pooja Kumari Jain V, Rachit Agarwal, June 2014
3. Study of Rotating Double Pipe Heat Exchanger: Jayaprakash, Pradeep Poojary, Sandeep, May 2015
4. Thermodynamic analysis of fluidized bed drying of Vegetables: Anusha Rai, Nishmita, Shilpa, Thulasilatha, May 2015
5. Synthesis and Characterization of Alumina Particles: Roopashree M V, Swetha J, Tilakapriya Ganesh, May 2016
6. Purification of Hard-Water using Bio-sorbents: Haritha Haridas, Junaid Rasheed Shaikh, Rashmitha K Bolor, Stania Deborah Peris, May 2017
7. Dye Wastewater Treatment Using Coagulation and Adsorption: Pavan Kumar S D, Prathiksha Doddamani, Hanumantha Raya T, Ranganatha B R, May 2018

Research Publications in National/International Journals

Sl. No.	Authors	Title of the Paper	Journal Details
1.	Krishnamurthy Sainath and Pallab Ghosh	Stabilization of Silicone Oil-in-Water Emulsions by Ionic Surfactant and Electrolytes: The Role of Adsorption and Electric Charge at the Interface	Industrial and Engineering Chemistry Research Volume 52 , 15808–15816 October 18, 2013
2.	Shubham Singh, Soham Roy Chowdhury, Bindushree R P, Kinnera P,	Removal of CO ₂ using Aqueous Blends of Amines by Chemical Absorption Method: Modelling	Proceedings of International Conference on Clean Green and Sustainable Technology in Biotechnology and Chemical Engineering

	Krishnamurthy Sainath		STM Journals, Vol 1, issue 1, 119 – 123, March 2014
3.	Krishnamurthy Sainath and Pallab Ghosh	Electrical properties of silicone Oil-water interface in the presence Of ionic surfactants and salt: Importance in the stability of oil-in-water emulsions	Chemical Engineering Communications Volume 201, Issue 12, 1645 – 1663 June 23, 2014
4.	Govindarajan Varsha, Malini Dasgupta, Krishnamurthy Sainath	Review on Synthesis of Selected Mesoporous Particles	International Journal of Advanced Technology in Engineering and Science, vol 3, issue 2, 337 – 343 February 2015
5.	Shivakumar R, Usha H S, ChetanA Nayak, Krishnamurthy Sainath and Samita Maitra	Establishing Program Educational Objectives	Journal of Engineering Education Transformations (JEET), October 2015 Issue with Print, ISSN: 2349 - 2473, Online eISSN: 2394-1707 October 2015

Papers Presented in National/International Conferences

Sl. No.	Authors	Title of the Paper	Conference Details
1.	Krishnamurthy Sainath, Pallab Ghosh	Zeta Potential of Silicone Oil–Water Interface in Presence of a Cationic Surfactant: The Effect of Salts	National Conference, Reflux 1.0, April, 6-7, 2013, IIT Guwahati, Assam
2.	Shubham Singh, Soham Roy Chowdhury, Bindushree R P, Kinnera P and Krishnamurthy	Removal of CO ₂ Using Aqueous Blends of Amines by Chemical Absorption Method: Modeling	International conference on Green and Clean technologies in Chemical Engineering and Biotechnology, February 14-15 2014, SIT, Tumakuru, Karnataka

Sl. No.	Authors	Title of the Paper	Conference Details
	Sainath		
3.	Aheli Sengupta, Halak Mehta, Jason Dsilva, Krishnamurthy Sainath	Biodegradation of Anionic and Cationic Surfactants: Review	National Conference on Recent Innovations in Process Engineering and Sustainability (RIPES 2016), April 22 nd – 23 rd 2016, KLE Belgaum
4.	Mutthu Annamalai, Arul Ashok, Krishnamurthy Sainath	Modification of Polymers using Starch and its Applications	National Conference on Recent advances in Chemical, Biochemical and Environmental Engineering (RACBEE 2016) on 1 st October 2016 in SDM College of Engineering and Technology, Dharwad
5.	Mohamme Riyaz A M , Pavan P Nayak, Samita Maitra and Krishnamurthy Sainath,	Usage of Concentrating Solar Power to make Solar Water Desalination more Efficient	National Conference on Recent advances in Chemical, Biochemical and Environmental Engineering (RACBEE 2016) on 1 st October 2016 in SDM College of Engineering and Technology, Dharwad
6.	Akash M B Kaushal, Vindhya K Masthi, Krishnamurthy Sainath	Extraction of Semi-Conductor Grade Silica from Rice Husk Ash	National Conference “Chemexcel 2016” on 21 st October 2016 in Bapuji Institute of Engineering and Technology, Davanagere
7.	Junaid Rasheed Shaikh, Haritha Haridas, Rashmitha K Bolor, Stania D Peris and Krishnamurthy Sainath	Identification of Potential Adsorbents for removal of ions in Sea water	National Conference, Chemovation 17, 6 th April 2017 in DSCE, Bengaluru
8.	Junaid Rasheed Shaikh, Haritha Haridas, Rashmitha K Bolor, Stania D	Desalination of Sea-Water using Natural Adsorbents	National Conference ALCHEMIST-2017 on 1 st March 2017 in KLE College of Engineering and Technology,

Sl. No.	Authors	Title of the Paper	Conference Details
	Peris and Krishnamurthy Sainath		Belagavi
9.	Mohammed Riyaz A M, Drishya Priya S, Sainath Krishnamurthy	Fluidized Bed Drying of Carrot and Beetroot Cubes	International Conference SPICE'18, on 6 th March 2018 in Adhiyamaan College of Engineering, Hosur, Tamil Nadu
10.	Sameer Kalghatgi, Gayathri Nair, Sainath Krishnamurthy	Rotating Double Pipe Heat Exchanger	International Conference SPICE'18, on 6 th March 2018 in Adhiyamaan College of Engineering, Hosur, Tamil Nadu

List of Conference/Seminars/Workshops attended

Sl. No.	Name of the Conference/Seminar/Workshop	Date	Place/Venue
1	Management Development Program on "Role of Digitalisation on New Businesses"	7 th and 8 th September 2017	BMSCE, Bengaluru
2	AICTE QIP STTP on Applications of Emulsions, foams and colloidal dispersions	23 Jan to 28 Jan 2017	IIT Madras, Chennai
3	Applications of Process Simulators in Chemical and Biochemical Engineering (APSCBE – 2016)	30 May to 3 June 2016	NIT Warangal, Telangana
4	One day Outreach Symposium	27-02-2016	IISc. Bengaluru
5	Training Programme on IPR for Faculty of Engineering	04-02-2016	BMSCE, Bengaluru
6	Research quality through quality publications: Why? How? When?	30-10-2015 and 18 November 2015	BMSCE, Bengaluru
7	Awareness workshop on Outcome based education and accreditation	21 st July 2015	BMSCE, Bengaluru

Sl. No.	Name of the Conference/Seminar/Workshop	Date	Place/Venue
8	IUCEE workshop on “Integrating Projects and Design into Core Engineering Courses: Enhancing Learning and Preparing Professions”	20 th July 2015	BMSCE, Bengaluru
9	VTU – VGST Sponsored FDP on Recent Advances and Developments in Downstream Processing (RADDP)	16 – 19 th June 2015	Dayananda Sagar College of Engineering, Bengaluru
10	Sustainability and Social Innovation	29 th May 2015	BMSCE, Bengaluru
11	Intellectual Property Rights: Significance for Academia	23 th March 2015	BMSCE, Bengaluru
12	Modeling Using MS Office Excel	21 st to 25 th July 2014	BMSCE, Bengaluru
13	Classical Modeling Concepts and Hands on Training using UniSim Simulation Software	30 th June to 2 nd July 2014	BMSCE, Bengaluru
14	Classical control theory and design using Matlab/Simulink	May, 22-23, 2014	BMSCE, Bengaluru
15	Statistics for Experimentalists	March, 17-29, 2014	IIT Madras, Chennai
16	Tequip Innovation Meet	September, 25-26, 2013	ICT, Mumbai
17	Outcome Based Education- The Science of Being a Teacher	June, 10-15, 2013	BMSCE, Bengaluru
18	Latex and Excel for Research-Hands on Sessions	August, 2-7, 2013	BMSCE, Bengaluru
19	Identification of Slow Learners and Performance Enhancement	August, 20 th 2013	BMSCE, Bengaluru

Sl. No.	Name of the Conference/Seminar/Workshop	Date	Place/Venue
20	Industry-Academia Workshop: Recent Trends in Oil and Gas Production Technology	February, 4-8, 2013	Sivasagar, Assam
21	Advanced Nanomaterials -Process, Characterization and Applications	July, 6-12, 2011	NIT Kozhikode, Kerala

Membership in National/Internal Societies

☼ Associate Member of the Institution of Engineers India (IEI), Kolkata, India.

Achievements

- ★ Secured 7th VTU rank in Chemical Engineering for the batch 2006 – 2010, for all over Karnataka.
- ★ Qualified the Graduate Aptitude Test in Engineering (2011- Chemical Engineering).
- ★ Received 1st prize (the best paper and Post presentation) in REFLUX 2013, IIT Guwahati, Assam.

Competence

- Languages: English (read, write and speak), Hindi (read, write and speak), Kannada (read, write and speak), Telugu (read and speak).
- Computer skills: Windows-XP/Vista/7/8, Microsoft Office- all versions, MATLAB-R2013a (basics).
- Simulation software: UNISIM R410 (basics)

NPTEL Online Certification Courses

Sl. No.	Course	Date
1.	Introduction to research (10 hour course)	Jan to Feb 2016
2.	Introduction to Bioreactors (10 hour course)	Mar to April 2016

Events/Workshops Organized

Sl. No.	Events Coordinated	Details
1.	Best project competition under IChE BRC	17 th May 2014, BMSCE, Bengaluru
2.	Three days Faculty Development program on “Process Simulation using <i>UniSim</i> ® Design Software	15 th to 17 th March 2018, BMSCE, Bengaluru
3.	Three days Finishing School on “Documentation using MS Office and Latex”	17 th , 19 th and 20 th April 2018, BMSCE, Bengaluru

Guest lecture delivered/Resource Person

Sl. No.	Event/Topic	Details
1.	What is after Diploma in Chemical Engineering	17 th March 2017, Sri Jayachamarajendra (Govt.) Polytechnic, Bengaluru
2.	Three days Faculty Development program on “Process Simulation using <i>UniSim</i> ® Design Software	15 th to 17 th March 2018 BMSCE, Bengaluru
3.	Three days Finishing School on “Documentation using MS Office and Latex”	17 th , 19 th and 20 th April 2018, BMSCE, Bengaluru