

## BIODATA

### Personal Details:

1. Name : BAISALI RAJBANSI
2. Telephone and mobile No : +919836864273, Office- 23508386 Extn. 252
3. E-mail id : [baisali\\_rajbansi@rediffmail.com](mailto:baisali_rajbansi@rediffmail.com) , [brbchemengg@caluniv.ac.in](mailto:brbchemengg@caluniv.ac.in)
4. Fax : 91 33 2351 9755
5. Address for Communication : Department of Chemical Engineering  
University of Calcutta  
92, Acharyya Prafulla Chandra Road  
Kolkata- 700009, India
6. Present Position : Assistant Professor

### Academic Qualification:

College/ University	Degree
Regional Engineering College(Durgapur), Burdwan University	B.E in Chemical Engineering
Jadavpur University	M.E in Chemical Engineering
Jadavpur University	Ph.D.

### Job Experience:

1. Done job as a part-time Instructor in Chemical Engineering at Hooghly Institute of Technology (Polytechnic) from 2002-06.
2. Also done job as a part-time Instructor in Basic Training Center (ITI) in Chemical at Sahaganj, Hooghly from 2004-06 and sometime also as an External Examiner.
3. Done job as an Assistant Professor in Calcutta Institute of Technology, Banitabla, Uluberia from 22<sup>nd</sup> July, 2008 – 30<sup>th</sup> November, 2014.
4. Doing job as an Assistant Professor in Calcutta University, Rajabajar Science College, from 1<sup>st</sup> December, 2014-till now.

### Research Grant

Received grant for research project entitled 'Treatment of wastewater from small and medium scale dyeing industries of West Bengal' from West Bengal Pollution Control Board(WBPCB) under R& D Project. Financial assistance received is INR Nine lakh eighty one thousand six hundred and eighty. Grant period 2020-2022 (24 months).

### Teaching (B.Tech.)

- Fluid Mechanics
- Heat Transfer
- Process calculation
- Process Equipment Design and Drawing
- Energy resources and their utilisations
- Mechanical operations

### Teaching (M.Tech.)

- Air Pollution and control- Design and operation of air pollution control devices, noise pollution and Global issues

### Research Guidance

#### Ongoing / Submitted M.Tech Thesis

Sl. No.	Scholar Name	Title of thesis	Status	Year
1.	Bampi Roy	Removal of ammonia from aqueous solution using prepared low cost adsorbent study and characterisation	completed	2016
2.	Sayan Biswas	Batch equilibrium isotherm study for removal of ammonia from aqueous solution using Camellia Synesis.	completed	2017
3.	Richik Patra	Hydrogen production by electrolysis of waste water using novel packed bed electrode	completed	2018
4.	Saheli Kar	Treatment of wastewater from dyeing industries of West Bengal	ongoing	-

#### Ph. D. On-going: 2

- Samanwita Bhattacharya – enrolled for Ph.D. (Jointly with Prof. S.K.Das)
- Ram Chandra Dutta – enrolled for Ph. D. (with Prof. S.K.Das)

### Publications:

#### Paper publications

1. **B. Rajbansi, U. Sarkar** (2009). Evaluation of odour intensity from activated sludge based sewage treatment works. *Desalination and Water Treatment*, 12, 360–368.
2. **B. Rajbansi, U. Sarkar** (2010). Adsorption of odorous gases in and around activated sludge based Sewage Treatment Plant, *Chemical Engineering Transactions (AIDIC)*, 23, 345-350, *Doi: 10.3303/CET1023058, ISBN 978-88-95608-14-3 ISSN 1974-9791*.
3. **B. Rajbansi, U. Sarkar, Stephen E. Hobbs** (2014). Hazardous Odour Markers from Sewage Wastewater: A step towards Simultaneous Assessment, Dearomatization and Removal, *Journal of Taiwan institute of Chemical Engineers*, *Doi:10.1016/j.jtice.2013.10.004*, 45, 1549–1557.

#### Seminar and conference publications

1. **B. Rajbansi, U. Sarkar** (2012). Sensing 1-propanethiol, ethyl methyl sulfide, Disulfide, bis[1-(methylthio)ethiol] from odorous emissions of a Sewage Treatment Plant, 978-1-4577-0167-2/12/\$26.00©2012, IEEE, Pg-836-841.
2. **B. Rajbansi, U. Sarkar** (2013). Masking of odorous gases from Trickle Filter based Sewage Treatment Plant, *Environment Observer, Society for Environment Research And Management, IWSA*, 14, 90-91, ISSN-2320-5997.
3. **B. Rajbansi, S. Ghosh, S. Paul, S. Betal, R. Ghosh** (2013). Batch equilibrium isotherm study and Uncertainty analysis for removal of Cu(II) from waste water, *66<sup>th</sup> Annual Session of Indian Institute of Chemical Engineer, Chemcon 2013, Code:P422, Pg-278*.

4. S. Bhattacharya, **B. Rajbansi**, S. K. Das (2018). Adsorptive removal of Cu(II) from Aqueous Solution by Chitosan/SiO<sub>2</sub> Nanocomposite, Nat. Conf. Science, Technology and Communication Skills (NCSTCS- 2K18) 21st April, 2018 at Narula Institute of Technology, Agarpara, Kolkata.
5. S. Bhattacharya, **B. Rajbansi**, S. K. Das (2018). Nanocomposite- Preparation and Application in Cu(II) Removal from Aqueous Solution, National Conference on Engineering and Technology for Rebuilding India, 5-6 June, 2018, CSIR, Kolkata.
6. S. Bhattacharya, **B. Rajbansi**, S. K. Das (2018). Adsorptive removal of Cu(II) from Aqueous Solution by Chitosan/SiO<sub>2</sub> Nanocomposite-Isotherm, Kinetic and Thermodynamic Study, Int. Seminar Recent Advances in Molecules and Materials.
7. S. Bhattacharya, **B. Rajbansi**, S. K. Das (2019). Adsorptive Removal of Methylene Blue from Aqueous Solution by Chitosan-nano-silicacomposite. 106th ISC 2019.ISCA. PP-95, Pg-171.
8. R. Mullick, **B. Rajbansi** (2019). Comparison of Linear and Nonlinear Regression Methods for Equilibrium Modelling of Ammonia adsorption by Error Analysis Criteria Using Cost Effective Waste Camellia Sinensis. Proceeding Abstract Book of National Symposium on Sustainable Waste Management (NSSWM-2019).ISWMAW. Pg-41. ISBN: 978-93-5361-940-4.
9. S.Nandy, **B. Rajbansi** (2020). Extraction of oil from Cadamba seed using modified Soxhlet apparatus: characterization and optimization study, 16th Annual session of Students Chemical Engineering Congress, SChemcon 2013, ID: OP-06-015, Pg-136.
10. S. Bhattacharya, **B. Rajbansi**, S. K. Das (2020). Applicability of different adsorption isotherms for adsorption, Resource Efficiency through Circular Economy, Proceedings of 10<sup>th</sup> IconSWM-CE 2020, Pg-82.

#### **Presentations:**

1. "International Conference on Environmental Odour Monitoring and Control" *Organised by AIDIC at Florence, Italy on 22-24<sup>th</sup> September, 2010.*
2. "Sixth, International Conference on Sensing Technology" *Organised by CDAC, Kolkata, along with Massey University, New Zealand at India, Kolkata on 19-21<sup>st</sup> December, 2012.*
3. "Current Trends in Science and Technology" *Organised by IWSA at Pune University Campus on 28-30<sup>th</sup> November, 2013.*
4. "CHEMCON 2013" *Organised by IICHE at ICT, Mumbai on 27-30<sup>th</sup> December, 2013.*
5. "9<sup>th</sup> IconSWM 2019" *Organized by KIIT, India. Under the aegis of International Society of Waste Management, Air and Water (ISWMAW) Consortium of Researchers in International Collaboration (CRIC), on 27-30<sup>th</sup> November 2019.*

#### **Winter or Summer School Training / Workshop / Seminar / Short term course:**

1. MHRD/AICTE Sponsored In House program on Development of Laboratory / Workshop Instruction Materials on 10-27<sup>th</sup> November, 2003 at Hooghly Institute of Technology, Hooghly.
2. MHRD/AICTE Sponsored Winter School on Advanced Process Modeling and Control on January 19-30, 2009 at N.I.T (Durgapur), Chemical Engineering Department.
3. Scientific sessions of the workshop on Sensory systems for Environmental Monitoring of Obnoxious odors and VOCs in Industries, Organized by CSIR, NEERI in association with CDAC, Kolkata, during 7-8<sup>th</sup> February, 2013 at NEERI, Nagpur.
4. AICTE Sponsored national seminar on Chemical Engineering Education and Career Prospect on 13<sup>th</sup> November, 2013 at Calcutta Institute of Technology, Uluberia, Chemical Engineering Department.
5. WBSCST/DST and Bharat Consortium Institutes Sponsored workshop on Intellectual Property Rights on 12<sup>th</sup> September, 2014 at Calcutta Institute of Pharmaceutical Technology, Uluberia.

6. National Conference on Zero Liquid Discharge: Technology & Environmental Policy organised by Calcutta University Chemical Engineering Alumni Association in association with Department of Chemical Engineering, University of Calcutta on December 19, 2014.
7. TEQIP II Sponsored National Workshop on Solid waste Management organized by Department of Chemical Engineering Department, Heritage Institute of Technology, Kolkata on 19-20<sup>th</sup> March, 2015.
8. Industry-Academia Workshop on Safety, Health and Environmental Management in Oil Refining & Pipeline Transportation Organized by Petroleum Federation Of India and Lovraj Kumar Memorial Trust(LKMT) in association with Indian Oil Corporation Ltd.(Haldia Refinery) and Oil Industry Safety Directorate (OISD) during April 17-19, 2015 at Haldia Refinery, Haldia, West Bengal.
9. National Symposium on Recent Advances in Chemistry & Industry(2015), Organized by the Indian Chemical Society in the auditorium of Meghnad Saha Bhavan, Kolkata during 31<sup>st</sup> July & 1<sup>st</sup> August, 2015, in Commemoration of the 154<sup>th</sup> Birth Anniversary of Acharya Prafulla Chandra Roy.
10. Summer Course on Design and Optimization of Heat Transfer Device during 3-6<sup>th</sup> August, 2015, Organized by the Department of Chemical Engineering, National Institute of Technology, Durgapur.
11. International Seminar on Smart Materials and Chemical Industries organized by Department of Chemical Engineering, University of Calcutta, 23-24<sup>th</sup> December 2015.
12. HRDC/UGC sponsored Orientation Programme-112 during 1<sup>st</sup> - 30<sup>th</sup> December 2015 at Academic Staff College, CU, Rajabajar Science College.
13. HRDC/UGC sponsored Refresher Course on Environmental Studies during 8<sup>th</sup> – 31<sup>st</sup> March, 2016 at Academic Staff College, CU, Rajabajar Science College as a coordinator.
14. Entrepreneurship Development Programme (EDP- 2016), Phase IA, organized by Dept. of Chemical Engineering in association with Chemical Engineering Alumni association, TEQIP-II and CII-Eastern region innovation task force, on 23<sup>rd</sup> July 2016.
15. Entrepreneurship Development Programme (EDP- 2016), Phase IB, organized by Dept. of Chemical Engineering in association with Chemical Engineering Alumni association, TEQIP-II and CII-Eastern region innovation task force, on 10<sup>th</sup> September 2016.
16. HRDC/UGC sponsored Special Winter School 2017 during 2<sup>nd</sup> – 22<sup>nd</sup> February 2017 at Academic Staff College, CU, Rajabajar Science College.
17. National Seminar on Carbon Capture & Utilization Technology during 24<sup>th</sup> - 25<sup>th</sup> February 2017 at JU, H.L.Roy building, organised by CRC, IChE.
18. National Seminar on Cooling in Industry- A Journey from Wet to dry system during 24<sup>th</sup> March 2017 at JU, H.L.Roy building, organised by IChE in association with ICC, eastern region & HTSI.
19. Refresher Course on Separation Process for Chemical & Allied Industry on 29<sup>th</sup> April & 6<sup>th</sup> May 2017 at JU, H.L.Roy building, organised by IChE.
20. Worked as an organized member member in National Seminar on “Project Management – Objectives and Challenges” at Gateway Hotel, Kolkata, organised by IChE in association with ICC, eastern region on 7-8<sup>th</sup> July, 2017.
21. HRDC/UGC sponsored Orientation Programme-119 during 17<sup>th</sup> – 22<sup>nd</sup> July 2017 at Academic Staff College, CU, Rajabajar Science College as a coordinator.
22. TEQIP-III sponsored Short Term Course on Recent Trends in Industrial Pollution Control and Regulation organized by the School of Environmental Science and Engineering, Indian Institute of Technology, Kharagpur during November 19-23, 2018.
23. National seminar on Challenges in Design, Operation and Maintenance of Process Industries organized jointly by Calcutta University Chemical Engineering Alumni Association and Chemical Engineering Department, University of Calcutta during 21<sup>st</sup> & 22<sup>nd</sup> December, 2018.
24. MHRD, ASC Sponsored Interdisciplinary Refresher Course in Chemical Sciences, Engineering. & Technology during August 26<sup>th</sup>- September 9<sup>th</sup> 2019 in the Department of Chemical Engineering, University of Calcutta.

25. Symposium on Recent Trends in Chemical and Allied Industries-Technology, Economics and Related Issues organized jointly by Calcutta University Chemical Engineering Alumni Association and Chemical Engineering Department, University of Calcutta during 13<sup>th</sup> &14<sup>th</sup> September, 2019 on 100 years of Applied Chemistry Education in India.
26. 9<sup>th</sup> International Conference on Sustainable Waste Management towards Circular Economy, at Bhubaneswar, KIIT, organized by ISWMAW, during November 27<sup>th</sup> – 30<sup>th</sup> 2019.

### **Fellowships / Awards**

1. MHRD Fellowship, for qualifying GATE
2. DST Travel Grant for attending international conference at Italy, Florence
3. Icon Excellence award for presentation in 9<sup>th</sup> IconSWM.

### **Membership of Professional Bodies/Societies**

- 1) Life Member, Calcutta University Chemical Engineering Alumni Association
- 2) Life Member, Indian Institute of Chemical Engineers