**CURRICULUM VITAE**

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1. **Name:** Dr. B. SARATH BABU
2. **Designation:** Associate Professor
3. **Department:** Chemical Engineering
4. **Organization:** S V University College Of Engineering, Tirupati.
5. **Date of Birth:** 12-06-1975
6. **Area of interest:** Reactive Separations. Environmental Engineering
7. **Date of Joining in the S V University:** 04.09.2007
8. **Residential Address:** Flat Type Quarters, Quarter No.P/F.7,

Prakasam Nagar, S V University,

Tirupati.

1. **E-mail:** [bsarathbabu75@gmail.com](mailto:bsarathbabu75@gmail.com)
2. **Mobile No.:** 9849568083 **office:** 0877-2249577

**Educational Qualifications:**

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| Degrees | Subject | Year of Passing | Percentage of Marks obtained | Division/ class/ Grade | Name of the Board/ University |
| S.S.C. | General | 1990 | 70.67 | First | Board of Secondary Education, Andhra Pradesh. |
| Intermediate | M.P.C | 1992 | 73.4 | First | Board of Intermediate Education, Andhra Pradesh. |
| B.Tech. | Chemical Engineering | 1996 | 67.9 | First | Osmania University, Hyderabad. |
| M.Tech. | Chemical Engineering | 1998 | 7.34 (CGPA) | First | Indian Institute of Technology, Madras |
| Ph.D. | Chemical Engineering | 2012 | Title: Modeling and Experimental Studies on Reactive Separation Operations | | Osmania University, Hyderabad. |

**Experience:**

1. Worked as Assistant Professor in Chemical Engineering Department at Nagarjuna Institute of Technology and Sciences, Miryalaguda from 05.01. 2002 to 14.08.2006.
2. Worked as Assistant Professor in Chemical Engineering Department at Vignan University, Vadlamudi, Guntur from 23.08. 2006 to 31.08.2007.
3. worked as Assistant Professor in Chemical Engineering Department at S V University, Tirupati from 04.09. 2007 to 22.07.2020.
4. Have been working as Associate Professor in Chemical Engineering Department at S V University, Tirupati from 23.07. 2020 to till date.

**Workshops/ Refresher courses/Orientation Programs/Short Term Courses attended: 42**

1. Short term training programme on ‘Modeling, Simulation and Optimization of Chemical Engineering Process Industries’ at NIT, Warangal during 15th- 27th December, 2003.
2. Short term course on ‘Recent Advances in Chemical and Bio-Process Engineering’ at Vignan’s Engineering College, Vadlamudi, Guntur during 5th  to 8th June, 2007.
3. National Workshop on “Aspen Plus and Modeling” conducted by Chemical Engineering department, R V R & J C College of Engineering, Guntur during 5th  to 7th November, 2007.
4. National Workshop on “Instructional Design and Delivery Systems” conducted by NITTTR at SVUCE, S V University, Tirupati during 24th  to 29th November, 2007.
5. Short term training programme on ‘Process Modeling, Simulation and Optimization’ at NIT, Warangal during 1st- 14th June, 2009.
6. Faculty Development Programme **(FDP)** on ‘Entrepreneurship Development’ at SPMVV, Tirupati from 29.03.2010 to 09.04.2010.
7. Course on “Pattern Formation in Material and Biomedical Science” (SERC School) Organized by Chemical Engineering department, Indian Institute of Technology, Madras during 24th  to 28th January, 2011.
8. National Workshop on “Research Methodology” conducted by Computer Science Engineering department, SVUCE, S V University, Tirupati from 29th  to 30th September, 2012.
9. UGC-sponsored **Orientation Programme** at Sri Venkateswar University, Tirupati from 29.10.2012 to 24.11.2012.
10. Faculty Developing Programme (FDP) on “Developing Employability Skills among Students – Industry Perspective” organized by S V U College of Engineering, Tiruapati and Tata Consultancy Services Ltd., Hyderabad on 27.07.2013 under TEQUIP- II.
11. National Workshop on “Nanotechnology – A Fuel for Chemical Industry” conducted by Chemical Engineering department, R V R & J C College of Engineering, Guntur during 21st  to 23rd September, 2013.
12. A Two week Faculty Development Programme **(FDP)** on ‘Foundation Skills in Information Technology (FSIT)’ at Sri Venkateswar University College of Engineering, Tirupati from 20.01.2014 to 30.01.2014.
13. Participated in the Faculty Development Programme **(FDP)** on ‘Intellectual Property Rights’ held on 08. 07.2014 at Sri Venkateswar University College of Engineering, Tirupati.
14. Participated in the Workshop on “Quality Initiatives in Technical & Higher Educational Institutions” Organized by Engineering Staff College of India, Hyderabad from 8th to 10th October, 2014.
15. Participated in the two day Workshop on “Initiatives for Quality Improvement in Engineering Education” at Sri Venkateswar University College of Engineering, Tirupati during 15th to 16th November, 2014.
16. Participated in an AICTE sponsored short term course on “Thermodynamic Analysis of Modern Separation Processes” Organized by Chemical Engineering Department, IIT Madras, Chennai from 24th to 28th November, 2014.
17. Attended one day workshop on “Exposition on Advances in Nanoparticle Engineering” conducted by Indian Institute of Chemical Engineers, Guntur regional centre and Satish Dhawan Space Centre SHAR on 25th May, 2015 at SDSC SHAR Sriharikota.
18. Participated in a two week ISTE STTP on Environmental Studies Conducted by IIT Bombay under National Mission on Education through ICT (MHRD) from 2nd to 12th June, 2015.
19. Attended UGC-sponsored **Refresher Course** at Human Resource Development Centre, Sri Venkateswar University, Tirupati from 16.11.2015 to 05.12.2015.
20. Participated in the Short Term Training Program (STTP) on ‘’Advanced Process Control’’ Conducted by Chemical Engineering Department, NIT, Warangal from 7th to 11th March, 2016.
21. Attended a National Level Workshop on “Research Methodology and Report Writing’’ organized by Electrical and Electronics Engineering Department, S V U College of Engineering, Tirupati from 21st to 23rd April, 2016.
22. Attended in the one week GIAN course on ‘’Advanced Process Control’’ Conducted by Chemical Engineering Department, NIT, Warangal from 12th to 17th December, 2016.
23. Participated in “The Indian Science Congress” Conducted by S V University, Tirupati from 3rd to 7th January, 2017.
24. Participated in “Role of Digital Technology for National Development” Conducted by S V U College of Engineering, Tirupati on 26th and 27th October, 2018.
25. Participated in Short term GIAN course on“Chemical Vapor deposition” Conducted by University College of Technology,Osmania University, Hyderabad from 14th – 20th September, 2018.
26. Attended two weeks Faculty Development Programme on “Entrepreneurship” organized by S V U Entrepreneurship Development Cell, S. V. University, Tirupati from April 29th – 9th May, 2019.
27. Attended Three day Workshop on “Sponsored Research, IPR and Entrepreneurship’’ organized by S V U College of Engineering, Tirupati from 1st to 3rd August, 2019.
28. Attended Two day Workshop on “Sensitizing Higher Education Institutions to Promote Quality Assurance for Nation Building - Opportunities and Challenges’’ organized by S V U College of Engineering, Tirupati from 9th to 10th November, 2019.
29. Attended Two day Workshop on “Audit & Legal Aspects of adminstration’’ organized by S V U College of Engineering, Tirupati from 15th to 16th November, 2019.
30. Attended Two day Workshop on “Materials for Energy Conversion and Storage Devices’’ organized by JNTU College of Engineering, Anantapuramu from 27th to 28th December, 2019.
31. Attended Three day Workshop on “Train the Trainers on Examination Reforms’’ organized by KLE Technological University from 9th to 11th January, 2020.
32. Attended Faculty Development Programme on “Healthcare Management’’ organized by S.V. University College of Engineering, Tirupati from 7th - 8th February, 2020.
33. Attended Two week Faculty Development Programme on “Mathematical Modeling and Simulation for Scientists and Engineers’’ organized by Dept. of chemical Engineering, JNTU College of Engineering, Anantapuramu from 24th February to 7th March, 2020.
34. Attended international webinar on “Process Safety for Design Engineers” organized by Department of Chemical Engineering of GMR Institute of Technology, Rajam on 29th June, 2020.
35. Participated in the 5-day online FDP on “Advanced Materials and Surface Properties” organized by Department of Chemical Engineering of GMR Institute of Technology, Rajam during 26th – 30th October, 2020.
36. Participated in two-week online AICTE sponsored Faculty Development Programme on “Catalysis and Reaction Engineering” during 18th January - 30th January 2021 at Laxminarayan Institute of Technology, Nagpur
37. Participated in the 5-day online FDP on “Safety & Industrial Hygiene” organized by Department of Chemical Engineering of GMR Institute of Technology, Rajam during 22nd – 26th June 2021.
38. Participated in online one week Faculty Development Program (FDP) on “Novel Applications of Chemical Engineering (NACE)” organized by Department of Chemical Engineering, M V G R College of Engineering (A) Vizianagaram from 15th -19th, July 2021.
39. Participated in the 5-day online FDP on “Green Technologies towards Sustainable Future GTTSF-2022” (08th – 12th March,2022) Jointly Organized by Department of Chemical Engineering, GMR Institute of Technology, Rajam, Srikakulam, Andhra Pradesh, and National Institute of Technology-Warangal, Telangana, India .
40. Participated in the 5-day online International Faculty Development Programme on “Sustainable Nanotechnologies SNT-2022” (11th – 15th October 2022), Jointly Organized by Department of Chemical Engineering, GMR Institute of Technology, Rajam, Vizianagaram Dist., Andhra Pradesh, and National Institute of Technology-Warangal, Telangana, India.
41. Attended 5-day online Faculty Development Programme on “Recent Advances in Chemical Engineering – 2022 (RACE - 2022) Organized by Department of Chemical Engineering, Rajalakshmi Engineering College, Chennai from 8th – 12th November 2022.
42. Participated in the IEI Technical Webinar on the theme Bnt (bio nanotube of escherichia coli k-12) it`s engineering and health care systemorganized by West Bengal State Centre of The Institution of Engineers (India) under the aegis of Chemical Engineering Division on 12/12/2022.

**Papers Presented in Conferences: 23 (National: 14 and International: 09)**

1. Presented a paper in National Conference on “Pollution Control in Chemical and Related Industries” organized by Chemical Engineering Department, St. Stanley college of Engineering and Technology, Muttangi, Medak Dist.on 05.11.2006.

1. Took part in the proceedings of the National Conference on “Current Trends in Chemical and Bioprocess Engineering” organized by Chemical Engineering Department, S V University, Tirupati during 13th – 14th December, 2007.
2. Presented a paper on “Removal of Chromium from Aqueous System by Activated Red Mud and Rice Husk Ash” in 2nd AP Science Congress organized by S V University, Tirupati during 14th to 16th November, 2009.
3. Presented a paper on “Cryonics – On Way to Raising the Dead” in National Conference on “Modern Innovations and approaches in Biotechnology” organized by Biotechnology Department, Sri Padmavati Mahila Visvavidyalayam, Tirupati from 29th February to 1st March, 2012.
4. Presented a paper on “Biodiesel Production from Vegetable Oils” in National Conference on “Modern Innovations and approaches in Biotechnology” organized by Biotechnology Department, Sri Padmavati Mahila Visvavidyalayam, Tirupati from 29th February to 1st March, 2012.
5. Presented a paper on “Adsorption of Congo Red Dye from Aqueous Solutions using Neem Leaves as Adsorbents” in National Conference on “Pollution Control: Chemical and Biological Techniques” organized by Chemical Engineering Department, Vignan Unversity, Guntur on 26th March, 2012.
6. Presented a paper on “Studies on Esterification of Acetic Acid with n-Butanol by Packed Bed Reactive Distillation” in National Conference on “Recent Trends in Green Processing Strategies (RTGPS - 2012)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 29th March, 2012.
7. Presented a paper on “Industrial Effluent Treatment” in National Conference on “Recent Trends in Green Processing Strategies (RTGPS - 2012)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 29th March, 2012.
8. Presented a paper on “Design and Analysis of Decoupling Control Schemes for MIMO Non–Square Processes” in National Conference on “Technological Advancements in Chemical and Bioprocess Engineering(TACBE – 2012)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 28th September, 2012.

1. Presented a paper on “A Study on Solid Dissolution in Agitated Vessels with and without Chemical Reaction” in National Conference on “Technological Advancements in Chemical and Bioprocess Engineering(TACBE – 2012)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 28th September, 2012.
2. Presented a paper on ‘Adsorption of Cromium (VI) from Aqueous Solution using Solid Waste’ in International Conference on ‘Environmental Impact on human health and Therapeutic Challenges’ organized by department of virology, S V University, Tirupati on December 20th – 22nd, 2012.
3. Presented a paper on ‘Solid Dissolution of Cinnamic and Benzoic Acids in Agitated Vessels with and without Chemical Reaction’ in International Conference on Chemical and Bioprocess Engineering – India (ICCBE \_ IN, 2013) at National Institute of Technology, Warangal during 16th - 17th November, 2013.
4. Presented a paper on ‘Experimental Studies on Reactive Distillation of Lactic Acid with Butanol’ in International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC - 2014), held at National Institute of Technology, Tiruchirappalli, Tamilnadu on 27th - 29th September, 2014.
5. Presented a paper on ‘Simulation Studies on Heat and Hydrodynamic Aspects of Newtonian and Power law Fluids Past Spherical Particles’ in National Conference on “Novel Process Developments for Sustainable Industrial Practice” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 12th – 13th December, 2014.
6. Presented a paper on ‘Analysis of the lead in commonly used medicinal plants’ in National Conference on “Novel Process Developments for Sustainable Industrial Practice” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 12th – 13th December, 2014.
7. Presented a paper on ‘Ultrasound Assisted Extraction Of Menthol from Mint Leaves’ in International Conference on “New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2015)” at National Institute of Technology, Warangal during 20th – 21st March, 2015.
8. Presented a paper on ‘Reactive Extraction of Propionic Acid Using Alamine 336 (TOA) in different diluents’ in National Conference 1st AP Science Academy organized by department of physics, S V University, Tirupati on December 27th – 29th, 2016.
9. Presented a paper on ‘Reactive Extraction of Levulinic Acid Using TBP in Octanol and Butanol’ in National Conference on “Pollution Control Strategies in Chemical and Related industries (PCSCRI - 2017)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on March 10th – 11th, 2017.
10. Presented a paper on ‘Removal of Zinc from Aqueous Solution Using Algae’ in National Conference on “Pollution Control Strategies in Chemical and Related industries (PCSCRI - 2017)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on March 10th – 11th, 2017.
11. Presented a paper on ‘Reactive Extraction of Levulinic Acid from Aqueous Solutions with Tri – n – Butyl Phosphate in 1 – Octanol: Equilibria and Effect of pH’ in International Conference on “Power Green Technology in Power Grid: Issues, Challenges and Control (ICGTPG – 2019)” organized by S V University College of Engineering, Tirupati on December 19th – 21st, 2019.
12. Presented a paper on ‘Studies on Fatty Acid Methyl Ester from Used Sunflower Oil using Pottasium Salts’ in International Conference on “Recent Advances in Chemical Engineering-2020” organized by Dept.of Chemical Engineering, University College of Technology, Osmania University, Hyderabad on 08th – 09th January, 2020.
13. Presented a paper on “Experimental Studies on Esterification of Lactic acid With Butanol by Packed Bed Reactive Distillation” in International Conference on “Education 5.0-Role of Institution, Industry and Society(ERIIS – 2022)” organized by National Institute of Technology, Warangal during 14th - 15th October, 2022.
14. Presented a paper on “Removal of malachite Green Dye from Aqueous Solution Using Lemon Leaf Powder as an Adsorbent” in 12th International Conference on Sustainable Waste Management & Circular Economy and IPLA Global Forum 2022 organized by International Society of Waste Management, Air and Water (ISWMAW) Sri Venkateswara University, Tirupati, Andhra Pradesh, India from November 30 - December 03, 2022.

**Publications: 32**

1. Dr.P. Akhila Swathanthra, **Dr. B. Sarath Babu**, M. Srinivasa Rao, Dr.V.V.Basava Rao ‘Removal of copper from aqueous solutions by using sugar cane bagasse;’ Journal of Innovative Research and Solutions (JIRAS) ISSN: 2320 1932, Volume No.1A, Issue No.2, Page No: 95 ‐ 99, Jan – Jun 2013.
2. **Dr. B.Sarath Babu**, P.Sreedhar, J. Vijayasanti ‘Settling Characteristics of Subsieve Particles in Flowing Media’ International Journal of Emerging Trends in Engineering and Development, ISSN 2249-6149, Issue 3, Vol.6, November 2013.
3. **Dr. B.Sarath Babu**, C. Bhardwaj Kumar, P.Sreedhar ‘Minimization of COD Level in Dairy Effluent’ Inernational Journal of Scientific Research, ISSN 2277-8179, Vol. 2, Issue .12, December 2013.
4. R. Bharath Kumar, S. Asha and **B Sarath Babu** ‘A note on phytodiversity and phytochemistry of important plant species of vignan university campus,Vadlamudi, Andhra Pradesh’ International Journal of Pharma and Bio Sciences,ISSN 0975-6299, 2014 Jan; 5(1): (B) 373 – 386.
5. Meenakshi. N, **Sarath Babu. B**, Pavan Kumar. S “Analysis of the Arsenic in commonly used Medicinal plants” International Journal of Ayurveda and Pharma Research” ISSN:2322-0910, January – February, 2014;2(1):77-83.
6. D. Hymavathi, G. Prabhakar and **B.Sarath Babu** “ Biodiesel Production from Vegetable Oils: An Optimization Process” International Journal of Chemical & Petrochemical Technology( IJCPT), ISSN(P):2277-4807; ISSN(E):2319-4464; Vol-4, Issue-2, April 2014, 21-30.
7. Meenakshi N, **Sarath Babu B**, Pavan Kumar **S “**Analysis of the Mercury in commonly used Medicinal Plants” International Journal of Ayurvedic Medicine, ISSN: 0976-5921, April – July, 2014, 5(2), 223-233.
8. Dr. B. Satyavathi, Ch.Venkatakrishnaiah, **Dr. B. Sarath Babu**, Dr. T. Pratap Kumar, D. Hymavathi, “Optimization of Reaction Parameters for Production of p-tert Butylbenzoic Acid” International Journal of Scientific and Engineering Research, Volume 6, issue 2, February 2015, ISSN 2229-5518.
9. **Sarath Babu B** and Sreedhar P “Solid Dissolution of Cinnamic and Benzoic Acids in Agitated Vessels with and without Chemical Reaction” Published in book chapter of “Chemical and Bioprocess Engineering Trends and developments”, Apple Academic Press and Taylor and Francis Group, pp 227 – 237, 2015.
10. P.Bangaraiah, **B.Sarath Babu** and P.Ashok Kumar “Extraction of Biodiesel from Azadirachta Indica” Research Journal of Pharmacy and Technology, 9(10), October 2016, ISSN 0974-3618 (print) 0974 – 360X (Online),pp 1451-1455.
11. P.Bangaraiah, and **B.Sarath Babu** “Biosorption of Lead and Zinc using Tamarind Indica” Published in “ Proceedings of International Conference on Biotechnology and Bioengineering – Trends (ICBT-2017)” ISBN 978 – 93 – 85518 – 18 -2, March 2017, pp 227 – 237.
12. P.Bangaraiah, and **B.Sarath Babu** “Study on Various Parameters in Biosorption of Lead using Tamarind Fruit Shell as an Adsorbent” International Journal of Civil Engineering and Technology (IJCIET), Volume 8, Issue 6, June 2017, pp 708-715.
13. P.Bangaraiah, and **B.Sarath Babu** “Biosorption and Kinetics of Lead using Tamarind Indica” Journal of Pharmaceutical Sciences and Research, Volume 9(7), 2017, pp 1209-1211.
14. P.Bangaraiah, **B.Sarath Babu** “Kinetic and Equilibrium Studies on Biosorption of Zinc Using Tamarindus indicaL” Research Journal of Pharmacy and Technology”, Volume 10, Issue 8, August 2017, ISSN 0974-3618 (print), pp 2641-2644,DOI: 10.5958/0974-360X.2017.00469.3
15. P.Bangaraiah, and **B.Sarath Babu** “Kinetic and Thermodynamic Studies on Removal of Lead using Tamarind Indica Fruit Shell Powder and Algae” Journal of Material and Environmental Sciences, 2018, Volume 9, issue 7, pp 2158-2163.
16. P.Bangaraiah, and **B.Sarath Babu “**Optimization of process parameters in removal of lead from aqueous solution through response surface methodology”Chemical engineering Communications, December 2018.
17. P.Bangaraiah, **B.Sarath Babu**, K.Abraham Peele, E.Rajeswar Reddy, and T. C. Venkateswarlu “Removal of Multiple Metals using Tamarindus Indica as biosorbent through Optimization of Process variables: A statistical Approach” International Journal of Environmental Science and Technology, August 2019.
18. N. Meenakshi, **Dr.B. Sarath Babu** “Equilibrium study on Reactive Extraction of Levulinic Acid from Aqueous Solutions using Tri – n – Butyl Phosphate in 1 – Decanol” International Journal of Research, November 2019, Volume VIII, Issue XI, pp 96 – 113.
19. N. Meenakshi, **Dr.B. Sarath Babu** “Reactive Extraction of Levulinic Acid from Aqueous Solutions with Tri – n – Butyl Phosphate in 1 – Octanol: Equilibria and Effect of pH” International Journal for Advanced Research in Science and Technology, December 2019, Volume 09, Issue 12, pp 1 – 8.
20. N. Meenakshi, **Dr.B. Sarath Babu** “Recovery of Levulinic Acid from an Aqueous Phase by Reactive Extraction using Tri – n – Octylamine in 1 – Decanol” International Journal for Innovative Engineering and Management Research, December 2019, Volume 08, issue 12, ISSN 2456 – 5083, pp 547-555.
21. N. Meenakshi, **Dr.B. Sarath Babu** and N.Suresh “Reactive Extraction of Levulinic Acid using Tri – n – Octylamine in 1 – Hexanol” International Journal of Engineering and Advanced Technology, December 2019, Volume 09, Issue 02, December 2019, pp 4534 – 4539, **ISSN: 2249 – 8958**
22. N. Meenakshi, **Dr.B. Sarath Babu** “Reactive Extraction of Levulinic Acid using Tri-n-octylamine in 1-Octanol: Equilibria and Effect of pH” International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-5, January 2020, pp 5252 – 5256.
23. **Dr.B. Sarath Babu** and G.Yamini “Removal of Methylene Blue by using Lemon Leaf Powder as an Adsorbent” Springer nature Singapore Pvt. Ltd. February 2020 Ghosh S., Saha P., Francesco Di M. (eds) Recent Trends in Waste Water Treatment and Water Resource Management, pp 101 -109. <http://doi.org/10.1007/978-981-15-0706-9_10>.
24. J. Uday Sekhar, **B.Sarath Babu** “Control of Non-regulating Processes” International Journal of Research and Analytical Reviews(IJRAR), E-ISSN 2348-1269, P-ISSN 2349-5138, Volume7, Issue 2, May 2020, pp 659-671.
25. J. Uday Sekhar, **B.Sarath Babu** “Enhanced Performance with PID Controllers and Lead/Lag Compensators for Unstable Processes with Time Delays” International Journal of Latest Trends in Engineering and Technology (IJLTET), E-ISSN 2278-621X, P-ISSN 2319-3778, Volume16, Issue 3, May 2020, pp 21-32.
26. N.Meenakshi, **Dr.B.Sarath Babu** and K. Govindaiah “kinetics of Reactive Extraction of Levulinic Acid using Tri-n-Octylamine in 1-Hexanol” GIS Science Journal, ISSN No: 1869-9391, Volume8, Issue 6, June 2021, pp 1848-1857.
27. K.Sivasankar and **Dr.B.Sarath Babu ‘** Reactive Extraction of Gluconic Acid using Tri-Octylamine in different Diluents” Chemical Engineering Technology, January 2022,45 No.00,pp 1-9.
28. M.Sindhuri and **Dr.B.Sarath Babu** “Cadmium Removal Using Eucalyptus Bark and Syzygium Cumini Bark as Adsorbents” International Journal for Research in applied Science and Engineering Technology, Volume 10, Issue 4, April 2022, pp 1-6.
29. **B. Sarath Babu** and Seerla Venkata Priyanka “Kinetic Study on Propionic Acid using Alamine 336 in Petroleum Ether by Reactive Extraction” Indian Journal of Petroleum Engineering, ISSN: 2582-9297, Volume-2 Issue-2, November 2022
30. **Dr.B.Sarath Babu,** Shaik Sahu Vazeer, Seerla Venkata Priyanka and Dr. D.Hymavathi **“**Removal of Methyl Orange from Effluent Water by Silver/Copper Nanoparticles Deposited on Antigonon Leptopus Leaf Powder an Adsorbent” International Journal of Innovative Science and Research Technolgy” ISSN: 2456-2165, April 2023
31. K. Laila, **Dr.B.Sarath Babu** and G. Jyothsna Deepika “Reactive Extraction of Gluconic Acid Usin TOA in 1-Decanol” International Journal for Research Trends and Innovation, ISSN: 2456-3315, Volume-8, Issue-6, June 2023, pp 687-692.
32. **B. Sarath Babu** and Seerla Venkata Priyanka “Removal of Malachite Green Dye from Aqueous Solution using Lemon Leaf Powder as an Adsorbent” Journal of Solid Waste Technology and Management, Volume-49 Issue-2, August 2023, pp 141-151.

**Books Published: 02**

1. N.Meenakshi, **Dr.B.Sarath Babu “**Reactive Extraction of Levulinic Acid” LAMBERTS Academic Pubishing, July 2021.
2. **Dr.B.Sarath Babu** and J.Udaya Sekhar “Studies on Enhanced Control of Time Delayed Processes”LAMBERTS Academic Pubishing, August, 2022, ISBN -13: 978-620-5-48815-7. http://www.lap-publishing.com/

**Guest Lectures Delivered: 07**

1. Delivered a lecture on ‘Design of Heat Exchanger’ organized by Dept. of Mechanical Engineering, S.V.U.College of Engineering, Tirupati on 10th December, 2020.
2. Delivered a lecture on ‘Fluid Mechanics and its Applications’ organized by Dept. of Mechanical Engineering, S.V.U.College of Engineering, Tirupati on 10th March, 2022.
3. Delivered a lecture on “Water pollution and Control Measures” on the eve of ‘World Water Day – 2021’ organized by Dept. of Environmental science, S V University, Tirupati & A. P. Pollution Control Board, Regional Office, Tirupati on 22nd March, 2022.
4. Delivered a lecture on ‘Mass Transfer Techniques’ organized by Dept. of Mechanical Engineering, S. V. U. College of Engineering, Tirupati on 29th July, 2021.

1. Delivered a lecture on “Impact of Single Used Plastics (SiP) and Its Adverse Effects on Soil Profile” on the eve of ‘World Earth day – 2022’ organized by Dept. of Environmental science, S V University, Tirupati & A. P. Pollution Control Board, Regional Office, Tirupati on 22nd April,2022.
2. Delivered a lecture on “Impact of Air Pollution on Human Beings” on the eve of ‘International Ozone Day - 2022’ organized by Dept. of Environmental science, S V University, Tirupati & A. P. Pollution Control Board, Regional Office, Tirupati on 16th September,2022.
3. Delivered a lecture on “Removal of Heavy Metals from Industrial Effluents” on the eve of ‘World Water Day – 2022’ organized by Dept. of Environmental science, S V University, Tirupati & A. P. Pollution Control Board, Regional Office, Tirupati on 22nd March,2023.

**Conference Organized: 10**

1. Coordinator for National Conference on “Recent Trends in Green Processing Strategies (RTGPS - 2012)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 29th March, 2012.
2. Coordinator for National Conference on “Technological Advancements in Chemical and Bioprocess Engineering(TACBE – 2012)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 28th September, 2012.
3. Organized one day Industry – Institution Interaction on **“**Industrial Practice – Scope for Trouble Shooting and Process Development” under TEQIP – II on 12th April, 2014.
4. Coordinator for National Conference on “Novel Process Developments for Sustainable Industrial Practice (NDSIP - 2014)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 12 – 13 December, 2014.
5. Coordinator for two day Seminar on “Career Guidance and Aptitude Skills (CGAS-2017)” organized by S V University College of Engineering, Tirupati on 3rd – 4th March, 2017.
6. Coordinator for National Conference on “Pollution Control Strategies in Chemical and Related industries (PCSCRI - 2017)” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 10th – 11th March, 2017.
7. Coordinator for STTP on “Solid Waste Management” organized by Chemical Engineering Department, S V University College of Engineering, Tirupati on 6th – 9th March, 2017.
8. Coordinator for two day seminar on “Roll of Digital Technology for National development” organized by S V University College of Engineering, Tirupati on 26th and 27th October, 2018.
9. Coordinator for one day webinar on“Technological Advancements in Chemical Process Industries” organized by Dept. of Chemical Engineering, S V University College of Engineering, Tirupati on 26th February, 2021.
10. Coordinator for Guest Lecture on “Future Prospects of Chemical Engineering” By Dr. Moses M.David, Staff Scientist, 3M Company, USA organized by Dept.of Chemical Engineering, S V University College of Engineering, Tirupati on 27th March, 2021.

**Acted as Chair for conferences: 05**

1. National conference on **CREDARS March, 2012** conducted by Dept. of Civil Engineering, S V University, Tirupati.
2. International Conference on Chemical and Bioprocess Engineering – India (ICCBE \_ IN, 2013) on 16th and 17th November, 2013 at National Institute of Technology, Warangal.
3. Refresher Course in Environmental Studies conducted by Human Resource Development Centre, Sri Venkateswar University, Tirupati on 18.08.2018.
4. International Conference on “Power Green Technology in Power Grid: Issues, Challenges and Control (ICGTPG – 2019)” organized by S V University College of Engineering, Tirupati on December 19th – 21st, 2019.
5. 12th International Conference on Sustainable Waste Management & Circular Economy and IPLA Global Forum 2022 organized by International Society of Waste Management, Air and Water (ISWMAW) Sri Venkateswara University, Tirupati, Andhra Pradesh, India from November 30 - December 03, 2022.

**M. Tech. Projects Guided: 25**

1. J Vijaya Shanti worked on ‘Kinetic Studies on Esterification of Acetic Acid with Butanol by Packed Bed Reactive Distillation’ during the year 2009-2010
2. N.Naresh (Roll No.1109103) worked on ‘Batch and Semi–Continuous Transvinylation of Lauric acid’ during the year 2010 – 2011.
3. P. Sreedhar (Roll No.11101102) worked on ‘A Study on Solid Dissolution in Agitated Vessels with and without Chemical Reaction’ during the year 2012 – 13.
4. R. Srinivasa Reddy (Roll No. 11101104) worked on Process Validation & In Process Quality Control for Mesalamine Extended Release Tablets’ during the year 2012 – 13.
5. N. Meenakshi (Roll No.1111106) worked on ‘Analysis of Heavy Metals in Medicinal Plants’ during the year 2013-14.
6. V.Kumari (Roll No.1112106) worked on ‘Reactive Extraction of Propionic Acid using Alamine 336 in Different Diluents’ during the year 2014-15.
7. P. V. S. Bhargavi (Roll No.1112104) did project on “Simulation and Experimental Validation of Composition and Temperature Profiles in Batch Distillation” during the year 2014-15.
8. S. Nazia (Roll No.131104) did project on “Extraction of Steviol Glycosides for Diabetic and Obese Patients from Steviol Leaves through Membrane Separation” during the year 2013-15.
9. B.Vani (Roll No.1113102) did project on “Recovery of Anisole and Other Important Fractions from Multicomponent Liquid Mixtures through Distillation, Solvent Extraction and Crystallization Techniques” during the year 2013-15.
10. P.Rajitha (Roll No.1114106) worked on “Measurements, Correlation of Isobaric Vapor-Liquid Equilibrium Data for the Binary systems of Anisole+ o-Cresol, Anisole+ p-Cresol, Anisole+ Phenol at Sub-Atmospheric Pressures to Local Atmospheric Pressures” during the year 2014-16.
11. G.Hemalatha (Roll No.1114103) worked on “Modeling Studies on Chemical looping Combustion” during the year 2014-16.
12. Hakeem Mohammed Khalid (Roll No.1115102) worked on “Development of an Advanced Separation Technique for the Separation of Gaseous Mixtures” during the year 2015-17.
13. G. Yamini (Roll No.1115101) worked on “Removal of Methyelene Blue and Malachite Green Dyes by using Lemon Leaf Powder as a Adsorbent” during the year 2015-17.
14. N. Spandana (Roll No.1115103) worked on “Synthesis and Characterization of Tetra Sodium Pyrophosphate” during the year 2015-17.
15. Kakku Sivasankar (Roll No.1116102) worked on “Reactive Extraction of Gluconic Acid using Trioctylamine in Different Diluents: Volume Optimization” during the year 2016-18.
16. Shaik Sabji (Roll No.1117112) worked on “Purification of Crude Glycerol by Membrane Separation Techniques” during the year 2017-19
17. D. Jyothi (Roll No.1117101) worked on “Poly 3-Hydroxybutyrate-CO-3-Hydroxyvalerate (PHBV) Based Nanoparticles as Sustained Drug Delivery System” during the year 2017-19.
18. N. Suresh (Roll No.1116103) worked on “Reactive Extraction of Levulinic Acid with TOA using 1-Hexanol” during the Year 2016-2019.
19. P. Bhargavi (Roll No.1117111) worked on “Development of Membranes for Gas Separation and Glycerol Dehydration” during the Year 2017-2020.
20. Naidu Sowkhya (Roll No.1118104) worked on “Treatment of Natural Dye Effluent Using Moringa Oleifera Seed Extract” during the Year 2018-2021.
21. K C Praveen (Roll No.1118102) worked on “Adsorption of Lead by using Sesabania grandi floura” during the Year 2018-2021.
22. K Sravan Kumar (Roll No.1118103) worked on “Adsorption of Zinc by using Tamarindus Indica” during the Year 2018-2021.
23. R.D.Kavitha (Roll No.1118105) worked on “Removal of Red F3B Dye by Adsorption with Zinc Oxide Nanoparticles Synthesized Using Tabernaemontana Divaricata Leaf Extract” during the Year 2018-2021
24. M.Sindhuri (Roll No.1119102) worked on “Cadmium Removal from Aqueous Solution Using Eucalyptus Bark and Syzygium Cumini Bark as Adsorbents” during the Year 2019-2021.
25. G.Jyothsna Deepika (Roll No. 1120102) worked on “Reactive Extraction of Gluconic Acid Using Trioctylamine in 1-Decanol and 1-Hexanol” during the Year 2020-2022.

**Ph.D. Guided: 03**

1. Pagala Bangaraiah (R13105) had presented thesis on “Kinetic, Equilibrium and Thermodyanamic Studies on Biosorption of Lead and Zinc Using Tamarindus Indica and Algae” for the degree of Ph.D. are declared qualified for the award of Ph. D in the year 2018.
2. N Meenakshi (R15101) had presented thesis on “Reactive Extraction of Levulinic Acid using Tri-n-Butyl Phosphate and Tri-n-Octylamine in Different Diluents” for the degree of Ph.D. are declared qualified for the award of Ph. D in the year 2021.
3. J.Udayasekhar (R13102) had presented thesis on “Studies on Enhanced Control of Time Delayed Processes” for the degree of Ph.D. are declared qualified for the award of Ph. D in the year 2022.

**Research Guidance:** Number of M.Tech.s and Ph.D.s guided: 25 + 3 = 28

Ph.D. guiding: 02 M. Tech. Projects Guiding: 01

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| --- | --- | --- |
| **Course** | **Guided** | **In progress** |
| M. Tech. | 25 | 01 |
| Ph. D. | 03 | 02 |
| Total | 28 | 03 |

**Awards: 04**

1. Received outstanding service and contribution to the society Award- 2021 from Viswabhara Charitable Trust, Nellore on 23.01.2021.
2. Received Dr APJ Abdul Kalam Best Teacher Award- 2022 from Sai Radha Krishna Educational Society , Tirupati on 11.12.2022
3. Received State University Best Teacher Award- 2023 from Government of Andhra Pradesh on 5th September, 2023.
4. Expert member for the consent Management (CTE & CTO) cum Monitoring (Task Force) committees at Kurnool Zonal office, AP Pollution Control Board, Vijayawada from 20.07.2023.

**Membership/ Participation in Bodies: 04**

1. The Institution of Engineers (M1544351)
2. International Association of Engineers (M181872)
3. Indian Science Congress Association (L31928)
4. Indian institute of Chemical Engineers

**Additional Duties:**

1. Worked as Deputy Warden for S V U College of Engineering Hostels from 30.04.2010 to 30.05.2016
2. Worked as internal BoS member in Chemical Engineering, S V U College of Engineering from19.12.2013 to 18.12.2016.
3. Worked as NSS programme Officer for S V U College of Engineering Hostels from 07.09.2017 to 30.06.2022.
4. Worked as Additional Chief superintendent of Examinations for S V U College of Engineering from 27.04.2018 to to 20.09.2021
5. Worked as Head of Chemical Engineering, S V U College of Engineering from 17.12.2018 to to 06.04.2022.
6. Working as NCC officer, S V U College of Engineering from August 2020 to 25.04.2023.
7. Working as internal BoS member in Chemical Engineering, S V U College of Engineering from 07.06.2022 to 21.05.2024.

**Signature**