

Faculty Profile

Brief Profile (Few Paragraphs)



I (P. L. Muralidhara) dedicated academician and experienced professional in the field of chemical engineering, with a strong background in plant utilities, process engineering, and plant erection. Over the years, I am contributed significantly to both teaching and mentoring, guiding students through core engineering concepts and fostering a practical understanding of real-world applications. My commitment to academic excellence and clarity in instruction has made me a respected figure among students and colleagues alike.

My areas of expertise span across engineering economics, mass transfer operations, distillation processes, and the evaluation of industrial projects. I known for methodical approach, keen analytical insight, and my ability to simplify complex technical topics. With a focus on both foundational theory and hands-on industrial practices, I have played a key role in bridging the gap between academia and industry.

Beyond the classroom, I am actively involved in academic planning, student development, and curriculum enhancement. My professional journey reflects a deep passion for continuous learning and knowledge dissemination. I was also appreciated for my positive rapport with students and my encouragement of critical thinking and innovation.

Personal Information

- **Name:** Dr. P. L. MURALIDHARA
- **Designation:** Assistant Professor
- **Department:** Chemical Engineering
- **Email:** muralidharapl@rvce.edu.in
- **Phone:** 8440

Google Scholar <https://scholar.google.com/citations?user=RgaDTPMAAAAJ&hl=en/>
ResearchGate / LinkedIn: [Link if applicable]/ **ORCID: 0**<https://orcid.org/000-0002-7007-5003>

Domain of Expertise

Lubricants, Transfer operations and Chemical Equipment Design

Research Focus

- **Primary Area:** Lube oils properties enhancement by using additives.
- **Allied Areas:**
Green additives, Eco - friendly additives

Academic Qualifications

- **Ph.D.:** Chemical Engineering, , VTU, 2016
- **ME:** Chemical Engineering, Bangalore University, 1998
- **B.E./B.Tech:** Chemical Engineering, Bangalore University, 1990
- **Postdoctoral Research:** NA

• Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration (From- To)
1.	Sri Ranga Chemicals Pvt. Ltd	Process Engineer	1990 - 1992
2.	Bangalore Mechtronics Pvt. Ltd	Shift Engineer	1992 - 1994
3.	M.V.J College of Engineering	Lecturer	1994 - 2004
4.	M.V.J College of Engineering	Senior Lecturer	2004 - 30.June- 2007
5.	R.V. College of Engineering	Lecturer	05.07.2007 - 31.12.2011
6.	R.V. College of Engineering	Assistant Professor	01.01.2012 - till date

Publications & Patents

- 1.**Journal Publications.** Jagadish H Patil, Vinay Shetty, Manjunath Hosur and **P L Muralidhara**,
” Impact of incubation period of primary sludge inoculum on bimethanation of water hyacinth”
Journal of Chemical and Pharmaceutical Research, Vol 4, Issue 3, 2012, pp 1719-1724, ISSN : 0975-7384. [H INDEX 7] [CITED 1]
2. Jagadish H Patil, MALourdu AntonyRaj, **P L Muralidhara**, S M Desai and G K Mahadeva Raju,
“Kinetics of Anaerobic Digestion of Water Hyacinth Using Poultry Litter As Inoculum ”,
International Journal of Environmental Science and Development, Vol. 3, Issue 2, April 2012, pp 94-98, ISSN 2010-0264. [D O I : 10.7763/IJESD] [CITED 15]
3. Jagadish H Patil, Shankar B B, **P L Muralidhara**, Ramya M C and Ramya R, “Effect of Substrate Concentration on Bimethanation of Water Hyacinth”, Conference proceedings of International Multi-Conference on Management, Chemical, Environment and Medical Sciences (IMMCEMS'12),

Bangkok, Thailand, 23-24 November 2012.

4. **P L Muralidhara**, Kavyashree M J, Gowrishankar B S, Jagannadha Rao Y and Jayarama Naidu C, “Studies on the Effect of Additive Package in Enhancing the Lubricating Oil”, the journal of CPRI, Volume 8, Issue 04, December 2012, pp 357-360, ISSN 0973 – 0338.
5. **P L Muralidhara**, Guruprasad M, Nirguna Babu P, Jagannadha Rao Y and Jayarama Naidu C, “Physico – Chemical Studies on the effect of package additives in Automotive Engine Oils”, the journal of CPRI, Volume 8, Issue 04, December 2012, pp 361-366, ISSN 0973 – 0338.
6. **P. L. Muralidhara**, Jagadish H Patil, T Babaria, S. Khaitan, A. Singhanian, and Tejaswi, “Synthesis of Mobil Crystalline Material using rice husk”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Iss. 5, pp. 12594 – 12600, 2014, ISSN: 2319 – 8753.
7. **Muralidhara P. L.**, Shrisha C Navalagatti., Jagannadha Rao Y and Jayarama Naidu C, “*Study on Effects of Triphenyl Phosphate as a Potential Additive for Lubricating Oil*”, International Journal for Scientific Research & Development, 2014, ISSN (online)2(5): 2321 - 0613 [Impact factor 1.26]
8. **Muralidhara P. L.** Shrisha C Navalagatti., Jagannadha Rao Y and Jayarama Naidu C, “*Study on Effects of Additive on Viscosity Index of Lubricating Oil*”, International Journal for Scientific Research & Development, 2015, ISSN (online)2(11): 2321 – 0613 [Impact factor 1.26]

Conference Papers

1. **Jagadish H Patil**, MALourdu AntonyRaj, P L Muralidhara and S M Desai, “Study on Biomethanation of Water Hyacinth Using Primary Sludge as Inoculum”, *International Conference on Environmental Pollution and remediation (ICEPR 2011)*, 17-19 Aug. 2011, **Ottawa, Ontario, Canada***.
2. **Jagadish H Patil**, MALourdu AntonyRaj, P L Muralidhara, Vidya C “Study on Biomethanation of Water Hyacinth Using Primary Sludge as Inoculum”, *International Conference on Challenges in Biotechnology and Food Technology (ICBF 2012)*, 9-10 Jan 2012.
3. **Jagadish H Patil**, MALourdu AntonyRaj, P L Muralidhara, S M Desai and G K Mahadeva Raju, “Kinetics of Anaerobic Digestion of Water Hyacinth Using Poultry Litter As Inoculum ”, *1st Journal Conference on Environmental Science and Development (JCESD)*, 7-8 April 2012.
4. **Jagadish H Patil**, Shankar B B, P L Muralidhara, Ramya M C and Ramya R, “Effect of Substrate Concentration on Biomethanation of Water Hyacinth”, *International on Chemical, Engineering and its Applications (ICCEA'12)*, 23-24 November 2012.
5. **Muralidhara P. L.**, Shrisha C Navalagatti., Jagannadha Rao Y and Jayarama Naidu C, “*Effects of Additive on Extreme Pressure Properties of Lubricating Oil*”, Journal of Chemical Engineering and Research,,

Books/Book Chapters

Pollution to Purity: Biotechnological Advances in Clean Water Solutions Vinutha Moses¹, Swarna M Patra², Archana Narula³, Ramya P⁴, Chetan N⁵, Manjula Sarode¹, Shyla Moses⁶, K Saraswathi⁷, Muralidhara P L¹, Basavaraja R J¹

Patents Filed

Extraction of Cellulose Acetate from Processed Cigarette Filter Waste (RV-OMS-044)

1. Vinod Kallur ,2. Haritha Rajaram,3. Muskaan Agarwal,4. Vinayak Hulake,5. Ashwin Rao Padubidri,6. P.L. Muralidhara, 7. Purushotham Gururaj

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

Ongoing & Completed Consultancy Projects

Professional Memberships

- Life Member, Indian Society for Technical Education
- Life Member, Indian Institute of Chemical Engineers

Awards & Recognitions

- Best Teacher Award in MVJ college of Engineering during 2003 and 2004.
- Honored by RSST for PhD completion

Student Supervision

- **Ph.D. Candidates:** NIL
- **M.Tech/M.Sc. Students:** NIL]
- **Undergraduate Research Mentees:** NIL

Professional Roles

- **Editorial Board:** NIL
- **Committee Member:** IChE, Bangalore Regional Center Executive Committee Member
- **Industry Advisor:** NIL]

Teaching

Core Courses: [Current semester]

Momentum Transfer, Mass Transfer, Chemical Technology and Fundamentals of Indian Constitution

Advanced/Lab Courses:

- Momentum Transfer, Heat Transfer, Mass Transfer and Particulate Technology Lab.

Professional Roles

College level Anti- ragging committee member. IChE Department coordinator, CIE Coordinator

Responsibilities

- **Academic:** MVJ College of Engineering - Bangalore university Coordinator 2003 to 2007.
R. V. College of engineering Examination coordinator from 2009 to 2013.
R.V. College of Engineering College Coordinator from 2011 to 2012.
- **Administrative:** Heat Transfer Lab In - charge

External Connect

- Member, Board of Examiners, Visvesvaraya Technological University, 2008 and 2011
- Member, Board of Examiners, Bangalore University, 2000
- Examination Coordinator, Bangalore University, 2003 – 2007
- Tabulator, Bangalore University, 2004 – 2006
- Examination Squad, Visvesvaraya Technological University, 2001, 2004 and 2006
- Deputy Chief – Examinations, Visvesvaraya Technological University, 2005, 2007, 2011 and 2022.
- Worked as chief flying squad three times in lok sabha and assembly elections.
- Delivered Guest lectures in PESIT and PES University on Heat Exchangers, Adsorption and separation Techniques.
- Delivered internship lectures in RV college of Engineering.