

Dr. P. VENKATESWARA RAO

Assistant Professor



Address: #Flat No.401, House No 1-1-710, Siddharth Nagar, Kazipet, Warangal, Telangana, 506004, India.
Cell No: +918332969263
Email : pvenku@gmail.com

EDUCATIONAL QUALIFICATIONS

Ph.D in Environmental Engg	2011	BITS, Pilani
M.E (Environmental Engg)	2002	Anna University
B.Tech (Civil)	1999	Sri Venkateswara University, Tirupati
10+2 (Intermediate)	1993	AP Board of Intermediate Education
SSC (10 th)	1991	AP Board of Secondary Education

PROFESSIONAL EXPERIENCE

- *Currently working as Assistant Professor in Department of Civil Engineering, NIT Warangal.*
- **Work Experience : 15 years** (Research Exp : 10 Yrs).
- Acting as NSS Co-ordinator for the units at NITW.
- BITS Coordinator for ongoing projects at Pentair Water India Ltd, IFB technologies and BOC India in Goa for BITS-Pilani during 2008-2013.
- Acted as a key administrator in various positions in the institute such as **warden, In-charge of wastewater treatment plant, water treatment plant**. Also member in various committees constituted by the director for campus development at BITS Pilani Goa campus.
- **PhD Title : (Waste to Energy Technologies) - Optimising the Biogas Production by Anaerobic Co-Digestion using Statistical and Decision Making Methods**
- No. of Research Publications (National/International Journals and Conferences): 15

RESEARCH FUNDING

As a principal investigator:

Title of the project: Investigating the effect of co-digestion and advanced sludge pretreatment methods on the anaerobic conversion potential of the organic wastes.

Total cost (Rs.) : **27,42,800/-**

Year of Commencement: 2014

As a co-principal investigator:

Title of the project: Development of efficient bioleaching process for the metal recovery from spent catalysts.

Total cost (Rs.) : **26,56,000/-**

Year of Commencement: 2013

LIST OF PUBLICATIONS

PAPER PUBLISHED IN INTERNATIONAL JOURNALS

1. Mohit Gupta , P.V. Rao and K.V. Jayakumar, Cost Optimisation of Integrated Sewerage System by using Linear Programming, Journal of Basic and Applied Engineering Research, Volume 4, Issue 5; 2017, pp. 364-368.

2. S.S. Baral, K. Raja Shekar, Megha Sharma, P.V. Rao, Optimization of leaching parameters for the extraction of rare earth metal using decision making method, *Hydrometallurgy*, 143 (2014) 60–67.
3. S. S. Baral, G. Surendran, N. Das, P.V. Rao, Statistical design of experiments for the Cr(VI) adsorption on weed *Salvinia cucullata II*, *Environmental Engineering and Management journal*, 12 (2013) 1535-1544.
4. P. V. Rao, S. S. Baral, Experimental design of mixture for the anaerobic co-digestion of sewage sludge. *Chemical Eng. J.* 172 (2011) 977– 986.
5. P. V. Rao, S. S. Baral, Attribute based specification, comparison and selection of feedstock for anaerobic digestion using MADM approach, *Journal of Hazardous Materials*, 186 (2011) 2009-2016.
6. P. Venkateswara Rao, S. S. Baral, Ranjan Dey, M. Srikanth, Potential for biogas generation by anaerobic digestion for sustainable energy development in India, *Renew. & Sust. Energy Rev.* 14 (2010) 2086–2094.

PAPER PUBLISHED IN CONFERENCES

1. Smruti Ranjan Sahoo and P. Venkateswara Rao, Temperature phased anaerobic co-digestion of food waste and rice husk using response surface methodology, at International conference on “Emerging trends in water resource and Environmental Engineering-2017” at MVGR College of Engineering Vizianagaram, Andhra Pradesh, 30th March - 1st April, 2017.
2. Atul Navnath Muske, P.Venkateswara Rao., Studies on the biogas production potential of fruit wastes with manure using anaerobic co-digestion. Presented at National conference of “Trends in Environmental Engineering Management and Science (TEEMS ‘17), 09-10 February, 2017. Organized by Center for Environmental Studies, Anna University, Chennai.
3. M J Sukhesh, P.Venkateswara Rao. Investigating the Effect of Anaerobic Co-Digestion of Poultry Manure with Lawn Grass Cuttings, Recycle 2016- International conference on recycle management, 1st-2nd April, 2016, IIT, Guwahati
4. P.Venkateswara rao, Manufacturing of low cost ceramic filters for water treatment, National Conference on Climate Change and Sustainable Water Resources Management, September, 2015, NIT Warangal.
5. D.Divya Bharathi, P.Venkateswara Rao, Satish Babu and S.S.Baral. Development of efficient bioleaching process for the metal recovery from Spent catalysts. Presented at International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2015), 2015, NIT Warangal
6. PKN Jogeswara rao, P.Venkateswara rao, M.V.N.Siva kumar. Environmental Impact Assessment in the Construction stage for Commercial Buildings Using Decision supportive Tool. Presented at National Conference on Technological Innovations for Sustainable infrastructure, 2015, NIT

Calicut.

7. P. V. Rao, S. S. Baral, R. Dey. Potential of biogas from biomass for sustainable energy development in India, 80th Annual Session of NASI and Symposium on Climate Change, 2-4 December 2010.
8. P. V. Rao, S. S. Baral, Anaerobic Co-Digestion of Organic Wastes, System Solutions for Global Challenges: Energy, Environment and Security, in Proceedings of National systems conference at NIT, Surathkal, India 10-12 December, 2010.
9. P.V. Rao, S.S. Baral, and Dey, R. Multiple Attribute Decision Making for Anaerobic Digestion. Presented at 81st Annual session of National Academy of Sciences and National Symposium on Sustainable Management of Biodiversity using Science and Technology at Kerala University, Thiruvananthapuram, Kerala, 24th – 26th November 2011.
10. P.V. Rao, S.S. Baral, and R. Dey, Anaerobic digestion of biomass in context with the indian energy scenario. Poster presented at First International Water Association - Conference On “Microbes in Wastewater & Waste Treatment, Bioremediation and Energy Production”. Organized jointly by Institut National de la Recherche Agronomique (INRA), France and Bits Pilani- K.K . Birla Goa Campus, Goa. 24th – 26th January-2011.
11. P.V. Rao, S.S. Baral. Pre-treatment of organic composite waste mixtures for enhanced biomethanation. Presented at 3rd International Engineering Symposium, Kumamoto University, Japan, March 4-6, 2013.

DISSERTATION GUIDANCE:

Undergraduate:

SNo	Title of the thesis	Name of the students	Academic Year and Sem
1	Manufacturing Process of Ceramic Pot Filter	M. Sri Sai Sathya K. Sai Pranathi Jigme Gurung	2014-2015
2	Optimisation of biogas production from kitchen and paper waste by anaerobic co-digestion	K V P Sandeep Reddy D Nikhil Swaroop Christian Abraham B Prasanna Lakshmi	2015-2016
3	RDF feasibility study for warangal city	Nirbhay Sachin Shivam Shukla Ajay Kumar	2016-2017

Post Graduate:

SNo	Title of the thesis	Name of the students	Academic Year
1	Development of Efficient Bioleaching Process for the Metal Recovery from Spent Catalysts	D. Divya Bharathi	2014-2015
2	Performance evaluation of a Moving Bed Biofilm Reactor	Sai Prasanna P	2014-2015
3	A study on Environmental Impact Assessment during the construction phase of a building in NIT Warangal	P K N Jogeswara Rao	2014-2015

4	Investigations on the effect of codigestion on biogas potential of organic wastes	Srutha Suresh	2014-2015
5	Pretreatment methods to improve the anaerobic biodegradability of organic fraction of municipal solid waste	Sruthy S	2014-2015
6	Risk assessment modeling tool for water distribution systems	Rudraraju Sravanthi	2015-2016
7	Investigating the effect of codigestion on biogas potential of organic wastes with residual crops	Mohammad Shuaib Mohsini	2015-2016
8	Ceramic filters for water treatment at the household level	Gangula Kranthikumar	2015-2016
9	Investigations on the effect of wastewater parameters on biogas potential and removal of hydrogen sulphide	Narasamma N	2015-2016
10	Temperature phased Anaerobic co-digestion of food waste and rice husk using response surface methodology	Smruti Ranjan Sahoo	2016-2017
11	Anaerobic co-digestion studies on the biogas production potential of fruit wastes with manure	Atul N Muske	2016-2017
12	A lab scale study on hybrid constructed wetland system for domestic wastewater treatment	Vinod Kumar J	2016-2017

Ph.D Guidance:

SNo	Title of the thesis	Name of the students	Status
1	Optimisation of Anaerobic co-digestion of organic wastes	M.Sukesh	Pursuing