

KORLA SWAPNA VAHINI

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Sector-3, M.V.P. Colony,
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Andhra Pradesh, India.

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Objective

To obtain a challenging position where I can effectively contribute my skills.

Academic Qualifications

PhD	August, 2019 Andhra University
PhD	March, 2013 GITAM Institute of Science GITAM
Master of Technology	Applied Botany (2006) Indian Institute of Technology, Kharagpur, India CGPA: 8.94
Master of Science	Biotechnology (2004) Andhra University Visakhapatnam, India. Aggregate percentage: 67.1
Bachelor of Science	Botany, Zoology and Chemistry (2002) B.V.K. College, Visakhapatnam, India. Aggregate percentage: 77.9

Present Status

- ❖ Presently working as Assistant Professor in the Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam
- ❖ Coordinator, IQAC (I/c), Dr B.R. Ambedkar University, Srikakulam
- ❖ Honorary Librarian (I/c), Dr B.R. Ambedkar University, Srikakulam.
- ❖ Coordinator, Raj Bhavan, Dr B.R. Ambedkar University, Srikakulam
- ❖ Proctor, LMS, Dr B.R. Ambedkar University, Srikakulam for APSCHE.
- ❖ General Body Member, Government Degree College (Women), Srikakulam
- ❖ Member, Board of Studies, Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Member, Central Purchase Committee, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Member, Women Grievance Cell, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Member, Anti-Ragging Squad, Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.

Work Experience

Position	Organization	Duration
Assistant Professor (ad hoc)	GITAM College, Visakhapatnam	1 Year
Assistant Professor	GITAM (Deemed to be University), Visakhapatnam	2 years 8 months
Assistant Professor	Dr B.R. Ambedkar University, Srikakulam	11 Years 10 months

Patents

- ❖ Ocean Spilled Oil Cleaning Device IPR Number: 359268-001(2022)
- ❖ Bowl to identify the content in a mixture chemical IPR Number: 362144-001 (2022)

Research Projects

- ❖ Co-Principal Investigator, Disaster Recovery and risk mitigation program in cyclone affected areas in Srikakulam district funded by UNICEF for a grant of 39,90,990 from December, 2013 to July, 2014 (8 Months)
- ❖ Project Officer, Development of Block Printing Technology in Bejjipuram Jute crafts under UBA Phase 2.0 funded by MoE from March, 2020 to March, 2021.

Consultancies

- ❖ Project Officer, Bejjipuram for Village Development Plan of Bejjipuram Village as a part of UBA Phase 2.0 for a period of 6 months in 2018 by MHRD for an amount of 10,000/-
- ❖ Project Supervisor, Student survey on Disaster Recovery and risk mitigation program in cyclone affected areas in Srikakulam district funded by UNICEF for an amount of 1,00,000/-

Administrative Experience

- ❖ Head (I/c), Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam from 18th April, 2018 to June 27th, 2021
- ❖ Dean (I/c), Confidential (Paper Setting – UG, PG and Professional), Dr B.R. Ambedkar University, Srikakulam from March, 2018 to June, 2021
- ❖ Co-Convener, DRBRAUSKLMCET -2019 and DRBRAUSKLMCET -2020
- ❖ Assistant Principal, College of Engineering (Administration and Finance), Dr B.R. Ambedkar University, Srikakulam for the academic year 2018-2019 and 2019-2020
- ❖ Associate Training and Placement Officer, Dr B.R. Ambedkar University, Srikakulam since March, 2018 to August, 2021
- ❖ Member, Board of Studies for the Department of Environmental Studies, GITAM Institute of Science, GITAM University from 2008 - 2010.
- ❖ Course Coordinator, Department of Geosciences, Dr B.R. Ambedkar University, Srikakulam, June, 2011 – June 2013.
- ❖ Chief Superintendent, VRO/VRA Examination for Twenty First Century Gurukula Patasala, 2012.
- ❖ Chief Superintendent, LawCET 2012 Examination for Dr B.R. Ambedkar University, Srikakulam.

- ❖ Incharge, Lab Chemicals, Glassware and Miscellaneous Items, Department of Biotechnology, 2010 – 2015 Dr B.R. Ambedkar University, Srikakulam.
- ❖ Camp Officer, EdCET- 2013, EdCET- 2014 and EdCET- 2015 on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Camp Officer, LawCET- 2013 and LawCET- 2014 on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Chief Verification Officer, EAMCET-2013 (Engineering) on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Chief Verification Officer, EAMCET-2013 (Pharmacy) on-line verification centre, Dr BR Ambedkar University Campus, Srikakulam
- ❖ Member, Anti Ragging Squad (2016-2017), Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam.
- ❖ Chief Superintendent, PG End Semester Examinations, April-2018, College of Science, Dr BR Ambedkar University, Srikakulam
- ❖ Asst Chief Superintendent, PG End Semester Examinations, November-2018, College of Science, Dr BR Ambedkar University, Srikakulam
- ❖ Asst Chief Superintendent, PG End Semester Examinations, April-2019, College of Science, Dr BR Ambedkar University, Srikakulam
- ❖ Flying squad, Undergraduate end semester examinations, Dr BR Ambedkar University, Srikakulam

PhD Thesis

Anaerobic Digestion Of *Ocimum sanctum*: Effect of Inoculum, Substrate and Heavy Metal Concentration under the guidance of Prof T. Srinivas, Professor, Joint Director, Center for Distance Learning, Department of Biotechnology, GITAM Institute of Technology, GITAM University.

Silver Nanoparticles From Bio-extracts: Their Potential For Removal of Heavy Metals In Water And Antimicrobial Activity In Textiles under the guidance of Prof. T. Byragireddy, Department of Environmental Sciences, Andhra University

M.Tech. Project

“Exploring eugenol degradation in selected microorganisms for generating value-added phenolic products” under the supervision of Dr. Adinpunya Mitra, Assistant Professor, Agricultural and Food Engineering Department, Indian Institute of Technology, Kharagpur.

M.Sc Project

“Microbial treatment of dairy wastes” under the supervision of Dr. P.V.V. Prasada Rao, Associate Professor, Environmental Sciences Department, Andhra University, Visakhapatnam.

Academic Achievements

- ❖ **Associate Fellow, Andhra Pradesh Akademi of Sciences, Amaravathi for the year 2020-2021**
- ❖ **Awarded for Dr. Sarvepalli Radhakrishnan Best Academician Award -2018 for meritorious contribution towards Research, Development and Innovation (R&D&I) in the University.**
- ❖ **Awarded Naari Shakthi Award For Young Women Scientist Award On The Occasion Of International Women’s Day, 2022 (Award ID: NSAYWS22014)**
- ❖ **Qualified for lecturership in Joint CSIR-UGC National Eligibility Test.**

- ❖ Qualified National Level Exam “Graduate Aptitude Test in Engineering (GATE) – 2004” conducted by Indian Institute of Technology, India (Life Sciences, All India Rank – 79; Percentile – 98.38).
- ❖ Awarded GATE Scholarship (July 2004~June 2006) by Ministry of Human Resource and Development, Government of India for pursuing M.Tech study at the Indian Institute of Technology, Kharagpur.

Research Publications

- “PCP Degradation By *Pseudomonas aeruginosa* And *Pseudomonas putida* -A Comparative Study”. Dr.T.Byragireddy, K.Swapna Vahini and M.Sumanth Kumar. Vol. 12 (1); 375-379(2008)
- “Subsurface Water Quality in Selected Areas of Visakhapatnam City”. V.Saritha and **K.Swapna Vahini**. *Journal of Current Science* 12(1): 85-89, 2008.
- “Status of Environmental Awareness in Slum Dwelling Children of Selected Areas of Visakhapatnam”. V.Saritha, **K.Swapna Vahini** and M. Sumanth Kumar. *J. Natcon* 20(1): 151-156, 2008.
- “Potential of Groundnut Husk and Groundnut Husk Ash for Phenol Removal in Aqueous Solution” -*Jr of Ecotech*; Vol. (1); pp 61-66(2009)
- Geochemistry of Soil Samples in Yendada Area, Visakhapatnam. **K.Swapnavahini**, V.Saritha and B.Padmavathi. *Rasayan Journal of Chemistry* 2 (2), 415-417,2009. IF – 0.29
- Characterization of Groundwater of Different Activity regions of an Urban Settlement. V.Saritha, **K.Swapna Vahini**, B.Padmavathi and V.Rohini Kumari. *Rasayan Journal of Chemistry* 2 (2), 539-542,2009; IF-0.29
- Characterization of Wastewaters in Semi Urban Settlements of Visakhapatnam. B. Padmavathi, V. Saritha and **K. Swapnavahini**. *Rasayan Journal of Chemistry* 2 (2), 531-535, 2009. IF-0.29
- Environmental Health Hygiene and Personal Sanitation Status in Selected slums of Visakhapatnam. **K. Swapna Vahini**, V Saritha, & M. Sumanth Kumar. *The Ecotech* 2(1), 96-99, 2009.
- An Integration of GIS and Remote Sensing in Groundwater Investigations: A Case Study in Sub-urban Regions of Hyderabad and Parts of Mehbubnagar District. M.Sumanth Kumar, T .Byragireddy, **K.Swapnavahini**, B.Vijaya Bhaskar and K.Sudhakar. *The Ecotech* 2(1), 100-103, 2009.
- Feasibility study of Anaerobic Digestion of *Ocimum Sanctum* leaf waste generated from *Sanctum sanctorum*. **K. Swapnavahini**, T. Srinivas, P. Lokesh Kumar, M. Shanthi Kumari and T. Lakshmi. *Bioresources* 5(1), 389-396, 2009. IF – 1.334
- Anaerobic Protozoa and their effect on terminal decomposition of organic matter. K. Swapnavahini, T. Srinivas and K. Anil Kumar. *The Ecotech* 2(2), 105-107, 2010 .

- Solid Waste A Major Threat to Environment- A Case Study. C.H. Bhavannarayana, V. Saritha, K. Swapnavahini, P. Brahmaji Rao, K. Sarala, K. Manik Raj and Bhupati Rav. *The Biosphere* 2(2); 171-174, 2010.
- How Safe Is Railway Station Water? - A Study on The Drinking Water Quality of Various Railway Stations From Khammam To Srikakulam Train Route In Andhra Pradesh. B. Bhagya Lakshmi, Sowmya Devi, K. Swapnavahini, V. Saritha and M. Sumanth Kumar. *The Biosphere* 2(2); 192-194, 2010.
- Preliminary Assessment of Coastal Water Quality. Abhilasha NAMdeo, D. Anusha, V. Saritha, K. Swapnavahini, M. Anil Kumar, C.H. Bhavannarayana and P. Brahmaji Rao. *The Biosphere* 2(2); 198-201, 2010.
- Effect of Inoculum Density on Anaerobic Digestion of *Ocimum sanctum* (Holy Basil) K.Swapnavahini, T.Srinivas and M. Sumanth Kumar. *The Ecosphere* 2(1&2); 79-81, 2011; ISSN 0976-1578.
- Effect of Potassium Chromate on the Anaerobic Digestion of Holy Basil (*Ocimum sanctum*) *Int. J. Adv. Res. Sci. Technol. Volume 1, Issue2, , pp 120-124 (2012)ISSN Print 2319-1783; Online 2320-1126; IF -2.179*
- Nutrient Reduction and Biogas Production of Rose Residue by Anaerobic Digestion in a Batch Reactor *Int. J. Adv. Res. Sci. Technol. Volume 1, Issue2, pp 125-129 (2012); IF - 2.179*
- Antioxidant Potential of Aloe vera (*Aloe barbadensis* Miller) Extracts: Evaluation of three different ecotypes. K. Venkat Reddy and K. Swapnavahini. *The Ecotech*, Volume 4(2); 2012.
- Effect of Selenium on Acceleration of Biogas Production and Digestibility of Lignocellulosic Biomass *Indian Journal Of Applied Research* Volume : 3 Issue : 3 pp 17 – 19 (2013) (Impact Factor 4.894) ISSN 2249-555X
- Impact of Land Use and Land Cover Change on Ground Water Quality in South Eastern parts of Greater Hyderabad Municipal Corporation and its adjoining parts of Mahabubnagar District *Jr. International Journal of Multidisciplinary Education Research* Volume 3, Issue 10(3), 2014; 236-246 (Impact factor 3.318 & IC Value 5.16) ISSN 2277-7881
- Effect of Selenium on Acceleration of Biogas Production and Trends of Nitrogen and Phosphorous. *International Jr. of Innovative Research and Practices. Vol 1, Issue 7, pp 24-28 (2013) ISSN 2321-2926*
- Lignocellulose degradation of *Ocimum sanctum* during anaerobic digestion: effect of inoculum density and selenium trace metal, K.Swapnavahini^{a*} and Sumanth Kumar. M. Paripex-*Indian Journal of Research* (2015) ISSN 2250-1991. IF-6.941
- Therapeutic effect of green tea extract on alcohol induced hepatic mitochondrial DNA damage in albino wistar rats; 8, 289-295; 2017; *Journal of Advanced Research (Elsevier); IF – 6.992*

- Impact of alcohol on hepatic mitochondrial DNA damage in streptozotocin diabetic rats; Volume 2, Number 2, pp. 90-101, 2017. IF:0.68
- Experimental Study Concerning Lignocellulose Degradation of *Ocimum sanctum* During Anaerobic Digestion: Effect of Trace Metals; Printing Area, Volume 6; Issue 40, 2018, IF: 5.1
- Socio-economic impact of tribes on Sanitation and Hygiene – a case study of Pathapatnam Mandal, Srikakulam District, Andhra Pradesh (2018). Vidyawarta, 4(23); 61-64; IF:5.2234
- Assessment of Vijayawada to Visakhapatnam Railway Stations Drinking Water Quality (2018); International Journal of Research and Analytical Reviews (IJRAR), 5(3); 501-503; IF:5.75
- Anaerobic digestion of *Ocimum sanctum* (Holy Basil): Effect of Anaerobic Protozoa (2018); Research Reviews Journal, 3(8); 116-118; IF:5.164
- Influence of Inoculum and Substrate Concentration on Anaerobic Digestion of *Ocimum Sanctum* (Holy Basil). International Journal for Research in Engineering Application & Management (IJREAM). ISSN : 2454-9150 Vol-06, Issue-03, June 2020; 217-219. IF:6.466
- Pros and Cons of Personal Protective Equipment to health care workers (2020), International Journal of Advanced Science and Technology (IJAST), 29(7); IF: 0.11
- Plant-derived Antiviral Compounds as Potential Entry Inhibitors against Spike Protein of SARS-CoV-2 Wild-type and Delta Variant: An Integrative in silico Approach. Molecules, 27, 1773, 2022 (<https://doi.org/10.3390/molecules27061773>)

Book Chapters

- Feasibility study of anaerobic digestion of *Ocimum sanctum* generated from *Sanctum sanctorum*, 2010. Issues in Biological and Lifesciences Research: 2011 Edition; Ashton Acton, Scholarly Editions, Atlanta, Georgia. ISBN 978-1-464-96335-3
- Subsurface Water Quality in Selected Areas of Visakhapatnam City, 2009; 319-325. Ecotechnology and Environmental Issues ; Prof. Arvind Kumar and Er. Kumar Prasun Ramakrishnan; Daya Publishing House, Delhi. ISBN 978-81-7035-617-2
- Pros and Cons of Personal Protective Equipment to Healthcare Workers, 2020; 95-105. New Innovations and Recent Applications of Technical & Non-Technical Aspects in Challenging the Present Day Society. ISBN No. 979-8-6432-1141-9. Published by Immortal Publications, Vijayawada.

Awards and Merits

1. Associate Fellow, Andhra Pradesh Akademi of Science, Amaravathi for the Academic Year, 2020-2021
2. NAARI SHAKTHI AWARD for Young Women Scientist Award on the occasion of International Women's Day on March 8th 2022 (Award ID: NSAYWS22014)

3. Stri Shakthi Puraskar from Youth Club of Bejjipuram on the eve of Womens Day, March 8th , 2021
4. Certificate of appreciation from Youth Club of Bejjipuram, for UBA Team member at Bejjipuram adopted Village.
5. Certificate of Excellence from Geetha Srikanth Foundation for the Academic Year 2019-20.
6. Certificate of Merit from Action in Rural Technology and Service (Arts) for the Academic Year 2019-20.
7. Certificate of Appreciation from Rotary Club - Srikakulam for the Academic year 2019-20
8. Certificate of Recognition from Mitra Foundation for the Academic Year 2019-2020.
9. Certificate of Merit from SikkoluYuva Sakthi for the Academic Year 2019-20.
10. Awarded for Dr. Sarvepalli Radhakrishnan Best Academician Award -2018 for meritorious contribution towards Research, Development and Innovation (R&D&I), Dr B.R. Ambedkar University, Srikakulam.
11. Certificate of Merit from Action in Rural Technology and Service (Arts) for the Academic Year 2018-19.
12. Certificate of Excellence from Geetha Srikanth Foundation for the Academic Year 2018-19.
13. Certificate of Merit from SikkoluYuva Sakthi for the Academic Year 2018-19.
14. Certificate of Appreciation from Rotary Club - Srikakulam for JRC/YRC State Award for the Academic year 2018-19
15. Certificate of Recognition from Mitra Foundation for the Academic Year 2018-19.
16. Certificate of Merit from Action in Rural Technology and Service (Arts) for the Academic Year 2017-18.
17. Certificate of Recognition from Mitra Foundation for the Academic Year 2017-18.
18. Certificate of Merit from SikkoluYuva Sakthi for the Academic Year 2017-18.
19. Certificate of Excellence from Geetha Srikanth Foundation for the Academic Year 2017-18.
20. Certificate of Merit is Awarded on the eve of Vocational Day Celebrations on 29th April 2018 from Rotary Club - Srikakulam.
21. Certificate of Merit from Action in Rural Technology and Service (Arts) for the Academic Year 2016-17.
22. Certificate of Recognition from Mitra Foundation for the Academic Year 2016-17.
23. Certificate of Merit from SikkoluYuva Sakthi for the Academic Year 2016-17.
24. Certificate of Excellence from Geetha Srikanth Foundation for the Academic Year 2016-17.
25. Certificate of Appreciation from Rotary Club - Srikakulam for the Academic year 2016-17.
26. Certificate of Merit from Action in Rural Technology and Service (Arts) for the Academic Year 2015-16.
27. Certificate of Recognition from Mitra Foundation for the Academic Year 2015-16.
28. Certificate of Excellence from Geetha Srikanth Foundation for the Academic Year 2015-16.
29. Certificate of Merit from SikkoluYuva Sakthi for the Academic Year 2015-16.

Seminar/Conference/Symposia/Workshop Presentations

National

- Conference: “Biotransformation of phenylpropanoids by *Paecilomyces variotii*” **K.S. Vahini**, A.P. Srivastava, S. Ghosh, A.Sachan, G.Mukherjee and A. Mitra. National Conference on Current Researches in Plants and Microbial Sciences, Burdwan, 26-27 November, 2005.
- Conference: “Fungal biotransformation of *trans*-cinnamic acid for production of phenolic flavour/fragrance”. A.P. Srivastava **K.S.Vahini**, S. Ghosh, A.Sachan, G.Mukherjee and A.Mitra, National Conference on Current Researches in Plants and Microbial Sciences, Burdwan, 26-27 November, 2005.
- Seminar: “Drinking water quality assessment in selected pilgrim centers and tourist spots in Visakhapatnam”. CHVLL Kusuma Kumari, V.Saritha, YAVASNMaruthi, S.Ramakrishna Rao, Sujatha Thakre, **K.Swapna Vahini** and K.Ravi Kumar. National Seminar on Industry and Professional Academia : Responsibility (*NASPAR-2007*), Visakhapatnam, 9-10 February, 2007.
- Conference: How Safe Is Railway Station Water? - A Study on The Drinking Water Quality of Various Railway Stations From Khammam To Srikakulam Train Route In Andhra Pradesh. **K.Swapna Vahini**, B. Bhagya Lakshmi and Sowmya Devi. National Seminar on Solid and Hazardous Waste Management for Safety, Health. Department of Environmental Sciences, Andhra University from 16th – 17th March, 2009.
- Conference: Agricultural fibres as a potential source for Phenol removal. Dr. T. Byragireddy. M.Sumanth Kumar and **K.Swapna Vahini**. National Seminar on Solid and Hazardous Waste Management for Safety, Health. Department of Environmental Sciences, Andhra University from 16th – 17th March, 2009.
- Workshop: Energy recovery from waste: Biomethanation of waste biomass through anaerobic digestion. **K.Swapnavahini**. Environmental Pollution and its Impact on Climate Change. AP Pollution Control Board, Zonal Office, Visakhapatnam and Department of Environmental Studies, GITAM Institute of Science, GITAM University on 3rd December, 2009.
- Seminar: Occupational and Environmental Exposure to emissions from Photocopiers and Potential health effects – A case study. V.SAritha, Ch. Bhavannarayana, P. Brahmaji Rao, B. Malleswari and K. Swapna Vahini. National Seminar on Environment and Sustainable Development, Organized by Department of Environmental Sciences, Acharya Nagarjuna University, Guntur on 28th – 29th October, 2011.
- Conference: Experimental Study Lignocellulose Degradation of *Ocimum sanctum* during Anaerobic Digestion. **K.Swapnavahini** and T.Srinivas. Andhra Pradesh Science Congress, Organized by Andhra Pradesh Akademi of Sciences and GITAM University, 14th – 16th November, 2011.
- Conference: Effect of Inoculum Density on Anaerobic Digestion of *Ocimum sanctum* (Holy Basil). **K.Swapnavahini**, T.Srinivas, M.Sumanth Kumar and L.S.Praveen. Andhra

Pradesh Science Congress, Organized by Andhra Pradesh Akademi of Sciences and GITAM University, 14th – 16th November, 2011.

- Conference: Effect of Potassium chromate on the Anaerobic Digestion of Holy Basil (*Ocimum sanctum*). **K.Swapnavahini**, T.Srinivas and M.Sumanth Kumar. National Conference on Recent Advances in Biotechnology (NCRB – 2011), Organized by Department of Biotechnology, M.I.T.S. Rayagada, Odisha, 06th December, 2011.
- Seminar: Irrigation Growth in India – More Crop per Drop. V.Saritha, **K.Swapnavahini**, Ch Bhavannarayana and M.Sumanth Kumar. National Seminar on Irrigation Development Policy and Agriculture in India Since Independence. Department of Rural Development, Dr B.R. Ambedkar University, Srikakulam. 25-26th November, 2011.
- Seminar: Anaerobic Digestion of *Ocimum sanctum* : Effect of Selenium Heavy Metal. **K.Swapnavahini**, T. Srinivas and M.Sumanth Kumar. National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012). Department of Environmental Science, GITAM Institute of Science, GITAM University. 17 – 18th March, 2012.
- Seminar: Groundwater Quality: A Case Study in sub Urban Regions of Greater Hyderabad Municipal Corporation, Andhra Pradesh. M.Sumanth Kumar, T. Byragireddy and **K.Swapnavahini**. National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012). Department of Environmental Science, GITAM Institute of Science, GITAM University. 17 – 18th March, 2012.
- Seminar: Microbial Treatment of Dairy Effluent. **K.Swapnavahini** and P.V.V. Prasada Rao. National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012). Department of Environmental Science, GITAM Institute of Science, GITAM University. 17 – 18th March, 2012.
- Seminar: Environmentally Responsible Use of Biotechnology: Implications for Regulatory Strategies. **K.Swapnavahini**, V.Saritha, and M.Sumanth Kumar. UGC-SAP National Seminar on Science and Technology and Human Rights. Dr B.R. Ambedkar College of Law, Andhra University, Visakhapatnam, 28th March, 2012.
- Conference: Effect of Selenium on Acceleration of Biogas and Digestibility of Lignocellulose Biomass. National Conference on Environment & Pollution – The Future Ahead (EPFA 2012). Department of Biotechnology and Basic Sciences- Humanities, Majhighariani Institute of Technology and Science, Rayagada, Odisha. 15th December, 2012.
- Conference: Evaluation of Ecotypes for Antioxidant potential of *Aloe barbadensis* Extracts. National Conference on Environment & Pollution – The Future Ahead (EPFA 2012). Department of Biotechnology and Basic Sciences- Humanities, Majhighariani Institute of Technology and Science, Rayagada, Odisha. 15th December, 2012
- Conference: *Ocimum sanctum* (Holy Basil) Anaerobic Digestion: Effect of Inoculum density on Lignocellulose degradation. National Conference on Chemistry for Sustainable development (SusCon-2012). Department of Chemistry, GITAM Institute of Science, GITAM University. 10 – 11th October, 2012.
- Seminar: Environmental health and well being of Neelam and Phialin cyclone effected villages of Etcherla mandal. A two-day national seminar on Sustainable Environment through Green Energy, Andhra Loyola College, Vijayawada, 27th – 28th February, 2015
- Seminar: Assessment of microbial drinking water quality in the suburban regions of Srikakulam district post monsoon floods. National seminar on Recent Biotechnological Approaches in Biopharmaceuticals and Health Care. Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 16th -17th December, 2015
- Seminar: Lignocellulose Degradation-----Selenium Trace metal. National seminar on Recent Biotechnological Approaches in Biopharmaceuticals and Health Care.

Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam, 16th -17th December, 2015

- A study of groundwater quality post Phialin cyclone of Etchrela Mandal, Srikakulam District, Andhra Pradesh: WASH aspects and Environmental Health. National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Land use and Groundwater Quality: A case study of suburban parts of greater Hyderabad Municipal Corporation and Adjoining parts of Mahbubnagar district. National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Effect of Nickel as trace metal on Anaerobic digestion of *Ocimum sanctum* National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Assessment of Environmental Awareness among Tribal Population: A case study of Pathapatnam, Srikakulam District, Andhra Pradesh. National seminar on Challenges and Opportunities for sustainable development of mineral and fossil energy resources. Department of Geology, Andhra University
- Effect of Chromium and Nickel as trace metals on Anaerobic Digestion of *Ocimum sanctum*. National seminar on Environment, Urbanization and Bio-resources Management (NS-EUBRM). Department of Environmental Sciences, Andhra University, 28th June to 30th June, 2017.
- Assessment of Sanitation status among Tribal Population: A case study of Pathapatnam, Srikakulam District, Andhra Pradesh. National seminar on Environment, Urbanization and Bio-resources Management (NS-EUBRM). Department of Environmental Sciences, Andhra University, 28th June to 30th June, 2017.
- Anaerobic Digestion of *Ocimum sanctum* : Effect of Inoculum Density and Substrate Concentration, Recent Advances in Chemical Sciences (RACS 2017) organized by Department of Organic Chemistry, Dr BR Ambedkar University, Srikakulam on 26th October, 2017
- Socio-economic impact of Tribes on Sanitation and Hygiene. National Seminar on Rural Development in India: Issues and Challenges with Special Reference to Andhra Pradesh organized by Department of Rural Development and Economics, Dr BR Ambedkar University, Srikakulam on 30th April, 2018.
- Diabetes: A cross-sectional and comparative study of the Indian Urban and Rural Population. National Seminar on Rural Development in India: Issues and Challenges with Special Reference to Andhra Pradesh organized by Department of Rural Development and Economics, Dr BR Ambedkar University, Srikakulam on 30th April, 2018
- Socio-economic impact of tribes on Sanitation and Hygiene – a case study of Pathapatnam Mandal, Srikakulam District, Andhra Pradesh, National Seminar on State of Environment : Environmental Protection, Management and Governance (NS-SEEPMG) organized by Department of Environmental Sciences, Andhra University, Visakhapatnam on 29th and 30th June, 2018
- Phytosynthesis of Eco-friendly Silver Nanoparticles from *Borassus Flabellifer* Coir, its antimicrobial activity and application. National Seminar on State of Environment : Environmental Protection, Management and Governance (NS-SEEPMG) organized by Department of Environmental Sciences, Andhra University, Visakhapatnam on 29th and 30th June, 2018

- Phytosynthesis of Eco-friendly Silver Nanoparticles from *Borassus Flabellifer* Seed Shoots (Thegalu), its antimicrobial activity National Seminar on State of Environment : Environmental Protection, Management and Governance (NS-SEEPMG) organized by Department of Environmental Sciences, Andhra University, Visakhapatnam on 29th and 30th June, 2018
- Optimization of Physico-chemical parameter for silver nanoparticle production from *Terminalia bellarica* seed extract. National Seminar on Environmental Health and Biotechnological Applications on Food & Pharma Industries organized by Department of Biotechnology and Food, Nutrition & Dietetics, Andhra University on 27th and 28th October, 2018
- Anaerobic digestion of *Ocimum sanctum* (Holy Basil): Effect of Inoculum, Substrate and Selenium trace metal. National Seminar on Environmental Health and Biotechnological Applications on Food & Pharma Industries organized by Department of Biotechnology and Food, Nutrition & Dietetics, Andhra University on 27th and 28th October, 2018

International

- Conference: “Effect of effluents on soil quality of GITAM University-a case study”. **K.Swapna Vahini**, S.Tejaswi, Krishnaja, B.V.Pavan. International Conference on Sustainable Environmental Sanitation and Water Resources During the New Millennium (*SESNM-2008*), Visakhapatnam, 26 March, 2008.
- Symposium: Effect of Selenium on Acceleration of Biogas Production. **K.Swapnavahini**, T.Srinivas And M.Sumanth Kumar. International Symposium on Effect of Emissions and Effluents on Environment (EEEE- 2011). Organized by Department of Engineering Chemistry, AU College of Engineering, Andhra University in Association with National Environmental Engineering Research Institute. 23 – 24th December, 2011
- Symposium: Land use and groundwater quality: A case study in South Eastern parts of Greater Hyderabad Municipal Corporation and its adjoining parts in Mahabubnagar District, Andhra Pradesh. Dr.M.Sumanth Kumar, Prof.T.Byragireddy, **K.Swapnavahini**, and Dr.V.Saritha. International Symposium on Effect of Emissions and Effluents on Environment (EEEE- 2011). Organized by Department of Engineering Chemistry, AU College of Engineering, Andhra University in Association with National Environmental Engineering Research Institute. 23 – 24th December, 2011
- Seminar: Livelihood Promotion Through Non Timber Forest Produce/Products: Dependency And Usage Pattern of Forest-Dwellers Ch.Bhavannarayana, V.Saritha, P.Brahmaji Rao, **K.Swapnavahini** and Vinay Sagar. International Seminar on emerging threats and challenges to biodiversity: Policy Framework for sustainable management (etcob-2012). Department of Botany, Sri Venkateswara University, Tirupathi (Sponsored by UGC) from 2-4th March, 2012.
- Seminar: Species Diversity Study In Community Managed Degraded Forests. Ch. Bhavannarayana, V. Saritha, **K.Swapnavahini** and Trinadh Rao. International Seminar on emerging threats and challenges to biodiversity: Policy Framework for sustainable management (etcob-2012). Department of Botany, Sri Venkateswara University, Tirupathi (Sponsored by UGC) from 2-4th March, 2012.
- Conference: Anaerobic digestion of *Ocimum sanctum*: effect of substrate concentration. First International and Third National Conference on Biotechnology, Bioinformatics and Bioengineering, Society for Applied Biotechnology, 28-29 June, 2013

- Conference: A novel biochemical method for production of an antibacterial drug trimethoprim from industrial wastes. First International and Third National Conference on Biotechnology, Bioinformatics and Bioengineering, Society for Applied Biotechnology, 28-29 June, 2013
- Conference: Land use and groundwater quality: a case study of suburban parts of greater hyderabad municipal corporation. International conference on technologies for sustainable waste management in developing countries, Schools of Biotechnology, Chemical Engineering and Civil Engineering, Vignan's University, 23-24 August, 2013.
- Conference: Assessment of water quality for Groundwater in Gara Mandal after the Severe cyclone Storm Phialin affecting Srikakulam District. International Conference on Environmental Biotechnology and Biodiversity, Department of Chemical Engineering, Andhra University, 3-4 March, 2014
- Conference: Lignocellulose degradation of *Ocimum sanctum* during Anaerobic digestion: effect of inoculum density. International Conference on Environmental Biotechnology and Biodiversity, Department of Chemical Engineering, Andhra University, 3-4 March, 2014
- Conference: Experimental study concerning lignocellulose degradation of *Ocimum sanctum* during anaerobic digestion: effect of trace metals. International Conference on Effects of Emissions & Effluents on Environment (EEEE-2014). A.U. College of Engineering, Andhra University, Visakhapatnam, 30th June -1st July, 2014
- Conference: Landuse and Groundwater Quality; A case study of Sub Urban parts of Greater Hyderabad Municipal Corporation. International Conference on Technologies for Sustainable Waste Management in Developing Countries, Vignan University, Guntur, 23rd- 24th August, 2014
- Conference: Groundwater quality in Phialin affected areas of Vajrapukotturu mandal, Srikakulam District, Andhra Pradesh, India. Second Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Mrs A.V.N. College, Visakhapatnam, 13th -14th December, 2014
- Conference: Groundwater and Water Quality Index: A case study in South Eastern parts of Greater Hyderabad Municipal Corporation, Andhra Pradesh. Second Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Mrs A.V.N. College, Visakhapatnam, 13th -14th December, 2014
- Conference: Lignocellulose Degradation Of *Ocimum Sanctum* During Anaerobic Digestion: Effect Of Inoculum Density And Chromium Trace Metal. Third Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Dr B.R. Ambedkar University, Srikakulam, 16th -17th December, 2014
- Conference: Assessment Of Water Quality For Groundwater In Gara Mandal After The Severe Cyclone Storm Phialin Affecting Srikakulam District And Wash Aspects For Personal Hygiene And Sanitation. Third Annual International Conference (AIC-2): Industry - CCRS Congress (ICC) 2014, Dr B.R. Ambedkar University, Srikakulam, 16th -17th December, 2014
- Effect of Nickel as trace metal on Anaerobic digestion of *Ocimum sanctum* from Sanctum sanctorum. International Symposium on Social Business for Sustainable development. Andhra University, Visakhapatnam in association with YunusCenter, Dhaka
- Assessment of Environmental Awareness and sanitation among Tribal population : A case study of Pathapatnam, Srikakulam District, Andhra Pradesh. International Symposium on Social Business for Sustainable development. Andhra University, Visakhapatnam in association with YunusCenter, Dhaka

- Anaerobic Digestion of *Ocimum sanctum*: Effect of Inoculum density and Substrate concentration and Micronutrient Selenium. International Conference AP Bio 2017 from 10 to 11th August, 2017. GITAM University, Visakhapatnam
- Diabetes: A cross-sectional survey on awareness among Kakinada residents. International Conference AP Bio 2017 from 10 to 11th August, 2017. GITAM University, Visakhapatnam
- Anaerobic digestion of *Ocimum sanctum*: Effect of Inoculum and Trace Metals, International Conference on Environmental Biotechnology (A promise to clean energy and green future) EBIO – 2017 held during 23rd to 25th November, 2017, Department of Chemical Engineering AUCEA (A), Andhra University, Visakhapatnam
- Anaerobic Digestion of *Ocimum Sanctum* (Holy Basil): Effect of Inoculum And Substrate Concentration. The 8th International Conference on Sustainable Waste Management under the aegis of International Society of Waste Management Air and Water (ISWMAW) at Acharya Nagarjuna University, Guntur from November 22 – November 24, 2018
- Pros and Cons of Personal Protective Equipment on Healthcare Workers. Global Webinar on Engineering, Science and Technology, organized by BITS, Visakhapatnam on 13th and 14th June, 2020.
- Pros and Cons of N95 Face Masks Usage by Healthcare Workers. International Virtual Conference on COVID-19 and Infectious Diseases in relation to Public Health: Perspectives and Challenges, organized by Career Point University, Hamirpur, Himachal Pradesh on 31st May, 2020
- Influence of trace metals on Anaerobic Digestion of *Ocimum sanctum*, International Conference on Biological Sciences vis-à-vis Sustainable Development & Environmental Conservation organized by Career Point University, Himachal Pradesh on 3rd and 4th July, 2020
- “Covid-19 Pandemic and it's influence on the Environment and Ecosystems: A global perspective” in a two day National E-Seminar on “Ecosystem Restoration” on the eve of “World Environment Day”(WED2021) organized by Department of Environmental Science, Institute of Science, GITAM (Deemed to be University), Visakhapatnam in association with Society for Science of Climate Change and Sustainable Environment, New Delhi, India on 4th & 5th June, 2021.
- International e- Conference on Developments in Chemical, Biological and Environmental sciences organized by Department of Chemistry, GITAM (Deemed to be University) on 28th to 30th June, 2021
- “Pros and cons of covid-19 on environment and ecosystem: a global perspective” and “Socio-economic impact of tribes on water quality, sanitation and hygiene – a case study of Srikakulam district, Andhra Pradesh, India” organized by 11th International Conference on Sustainable Waste Management & Circular Economy & IPLA World Forum 2021 from 1st to 4th December, 2021

Seminar/ Conferences/Workshops Attended

- ❖ National Workshop on Recent Advances in Genomics and Proteomics. Department of Biotechnology, Biochemistry and Microbiology, GITAM Institute of Science, GITAM University, 14th February, 2009
- ❖ National Seminar on New Horizons in Microbiology. Department of Microbiology, GITAM Institute of Science, GITAM University, 23rd February, 2010.

- ❖ National Seminar on Role of Geo-Spatial Technologies in Regional Development A focus on Nizamabad District – Telangana State in Department of Geo Informatics, Telangana University, Nizamabad, 12th -13th March, 2015
- ❖ Global summit on Emerging Science & Technologies: Impact on Environment & Human Health (ESTIEH-2014) & Special Symposia on “ Cancer Therapy & Environmental Toxicology”, Department of Biotechnology, Vikrama Simhapuri University, Nellore, 01-03 August, 2014
- ❖ Participated in a two day national Seminar on “Genetics and Genome Analysis for Novel Therapeutics” organised by Government Degree College Men, Srikakulam from 19th to 21st December, 2016
- ❖ Two Day National Workshop on Remote Sensing in water resources evaluation and sustainable management (RSWESM) organised by Department of Geo-Engineering and Centre for Remote Sensing during 22-23 March, 2017
- ❖ National workshop on Dissemination of Geo-spatial Technology for development of Andhra Pradesh” organised in association with APSAC, Vijayawada on 7th March, 2017
- ❖ One day workshop on “ Internal Quality Assessment and Enhancement “ organised by IQAC, BRAU, Srikakulam on 2nd December, 2016
- ❖ One day national workshop on “ Electron spin resonance spectrometer” held on 7th April, 2017 at Advanced Analytical Laboratory, DST-Purse Programme, Andhra University, Visakhapatnam
- ❖ Workshop on Capacity building in Biology and Allie Sciences by Govt Degree College, Srikakulam from 1st to 3rd April, 2017
- ❖ National workshop on “ Next Generation Sequencing: A new advancement in Bioinformatics” during 17th to 19th February, 2017
- ❖ Six day training workshop on “Science & Technology Communication through Digital Media” from 16th December to 22nd December, 2016 organised by AASRA, Vizianagaram and Supported by NCSTC, DST, GOI, New Delhi
- ❖ National Workshop on Advanced Techniques Related to Analytical, Molecular, Material Testing and Statistical Tools organized by Advanced Analytical Laboratory, Andhra University during 27-29 March, 2018
- ❖ National workshop on Recent Advances in Geo-spatial Technology with Special Emphasis on Disaster Management organized by Department of Geosciences, Dr B.R. Ambedkar University, Srikakulam in association with APSAC, Vijayawada on 4th April, 2018
- ❖ National Workshop on Conservation Status and Resilience of Indian Wildlife (NW-CSRIW) organized by Department of Environmental Sciecnes, Andhra University on 31st August, 2018
- ❖ National Workshop on Intellectual Property Rights and Patents (IPR&P) organized by College of Science, Dr B.R Ambedkar University, Srikakulam in collaboration with National Researh Development Corporation (NRDC), New Delhi on 28th February, 2019.
- ❖ National level workshop on NIRF Rankings -2022 for Higher Educational Institutions organized by IAE on 5th and 6th January, 2022

Seminars/Conference/Workshops Organised

- ❖ International Conference on Sustainable Environmental Sanitation and Water Resources During the New Millennium (*SESNM-2008*), Visakhapatnam, 26 March, 2008.
- ❖ Co-convener, Workshop cum Exhibition on “Biodiversity Conservation for Sustainable Development”. 12 March, 2008
- ❖ Co-convener, Workshop on “Climate Change”. 19 March, 2009.
- ❖ Active member, Advisor and Mentor for Exhibition on Ozone Day, 16th September, 2007.
- ❖ Co-convener, Workshop on “Solid Waste Management”, 21st March, 2007.
- ❖ Active member, Advisor and Mentor for Science Expo, February, 2007 and 2009.
- ❖ Workshop on “ Environmental Pollution and its Impact on Climate Change”, 3rd December, 2009
- ❖ Co-convener, Workshop on “Climate Change Challenges and Future Prospects”, 9th February, 2010.
- ❖ Member, Industrial Meet – 2011. Department of Biotechnology, Dr B.R. Ambedkar University, Srkakulam, 18th August, 2010.
- ❖ Organizing Secretary, National Workshop on New Horizons in Biotechnology. Department of Biotechnology, Dr B.R. Ambedkar University, Srkakulam, 18th March, 2011.
- ❖ Convener, XXIX Annual Convention of AHI and National Seminar on Hydrology with a special Colloquium on Management of Rural Water Resources. Association of Hydrologists of India and Department of Geosciences, Dr B.R. Ambedkar University, Srkakulam, 15 – 17th July, 2011.
- ❖ Member, National Seminar on Irrigation Development Policy and Agriculture in India Since Independence. Department of Rural Development, Dr B.R. Ambedkar University, Srkakulam. 25-26th November, 2011.
- ❖ Member, Workshop on Current Trends in Drug Development. Department of Biotechnology, Dr B.R. Ambedkar University, Srkakulam, 18th March, 2011.
- ❖ Organizing Secretary, International Workshop on Water, Air, Sanitation and Hygiene : Attitudes and Practices (WASH-2018) conducted by Department of Biotechnology, Dr B.R. Ambedkar University, Srkakulam on 27th January, 2018
- ❖ Member, National Workshop on ODF and ODF+ conducted by Dr B.R. Ambedkar University, Srkakulam, on 30th January, 2018
- ❖ Co-convener, International Conference on Water Sanitation and Hygiene (WASH-2019) conducted by Dr B.R. Ambedkar University, Srkakulam, on 23rd and 24th February, 2019
- ❖ Member, Two Day National Seminar on Drug Abuse Prevention : Role of Youth on 19th and 20th December, 2018 organized by Department of Social Work, Dr B.R. Ambedkar University, Srkakulam
- ❖ Organizing Secretary, International conference on Water, Sanitation and Hygiene (WASH-2019) organized by Department of Biotechnology, Chemistry and Social Work on 23rd and 24th February, 2019.
- ❖ Organizing Secretary, International Workshop on New Frontiers in Biotechnology and Chemistry organized by Department of Biotechnology and Chemistry on 7th Aug, 2019
- ❖ AP Science Congress organized by College of Science and AP Akademi of Sciences from 28th to 30th November, 2019.
- ❖ Organizing Member, National workshop on Protection of GI for Empowering rural craftsmen through technological interventions Jointly organized by NRDC and Dr B.R. Ambedkar University on 28th November, 2019
- ❖ Organized many workshops, exhibitions and seminars in the Department of Environmental Studies, GITAM Institute of Science, GITAM University upto April 2010.

Short Term/ Refresher/ QIP Programmes Attended

- ❖ Refresher course on “**Biotechnology**” in the Department of Biotechnology, Andhra University from 14th July to 4th August, 2008.
- ❖ Staff development Programme/ Quality Improvement Programme on “Instructional Design and Delivery System” conducted by National Institute of Technical Teachers Training and Research (NITTTR), at GITAM institute of Science, GITAM University, Visakhapatnam- 45 from 1st to 6th May, 2009.
- ❖ Orientation Programme conducted at Academic Staff College, Andhra University, Visakhapatnam from January 19th to February 15th, 2013.
- ❖ Refresher Course on Life Sciences at Academic Staff College, Andhra University from 7th March, 2015 to 27th March, 2015
- ❖ 7-Day Faculty Development Programme on Rural Community Engagement held from 21st Jan to 27th Jan, 2019 organized by Mahatma Gandhi National Council of Rural Education, Hyderabad
- ❖ One week National Workshop on “ Research Methodology” conducted by Skill Development Centre, Adikavi Nannayya University, Rajamahendravaram from 12th to 17th October, 2020
- ❖ One week online course “ Gender and development”conducted by BECH-RUSA 2.0, Bharatisadan University, 8-15 June, 2020
- ❖ Two week online FDP on Pedagogy and Challenges in Pharmaceutical Research by MRPG College, Vizianagaram, 1-12 June, 2020
- ❖ Phase-I of *AICTE sponsored one week Online Short Term Training Programme(STTP) on “ Power Systems and Power Electronics for Green Energy ”*, held by Department of EEE, Vignan’s Institute of Engineering for Women, Visakhapatnam, during 13-09-2021 to 18-09-2021
- ❖ Science Academies Refresher Course in Recent Trends in Molecular Biology Technology: Concepts and Practice organized by Department of Biotechnology, Dr B.R. Ambedkar University, Srikakulam from 2nd to 15th March, 2021
- ❖ Science Academies Refresher Course in Recent Trends in Organization, Complexity and Evolution of Living Systems organized by Government Degree College (Men), Srikakulam from 14th to 27th March, 2022

Extension Activities/ Co-curricular Activities

- Convener, Stage Committee, 2nd Convocation, Dr B.R. Ambedkar University, Srikakulam held on 9th March, 2022
- Member, Steering Committee, Inaugural Committee of Ultra Modern Kitchen on 9th January, 2021
- Convener, Judges Committee to examine National Science Day Models on the eve of National Science Day on 28th Feb, 2019 in A.P.J. Abdul Kalam Block
- A survey on the crop productivity variations with different crop varieties to farmers
- A Survey on ODF in different villages of five mandals of Srikakulam District, Andhra Pradesh
- Free medical camp at Anganwadi Centre, Etcherla Mandal, Srikakulam
- Farmers congress for awareness on Natural Farming and Organic Farming in Etcherla Village, Etcherla Mandal, Srikakulam

- Fecal Coliform in Drinking Water Supplies – A case study of groundwater quality of Srikakulam District
- Investigation on the distribution of ABO and Rh Blood Groups in the population of Allinagaram village, Srikakulam District
- Health Survey on Prevalence of Life Style Disorders in Various Mandals of Srikakulam District
- Survey on Prevalence of Life Threatening Diseases in Various Villages of Etcherla Mandal, sSrikakulam District
- Survey on Prevalence of Life Threatening Diseases in Boravanipeta Village of Gara Mandal, Srikakulam District
- Awareness programme on Open Defecation Problems in different mandals of Srikakulam District
- Population based Baseline UBA survey for data collection and prospective study
- Organic Farming – A sustainable way to agricultural system
- Survey on the present available strategies of livestock feeding
- Growing of Napier Grass as Fodder for livestock feeding

Membership of Professional Bodies

Life Member, Forum for Intellectual Academicians and Researchers (No. FIAR 13034)

Life Member, Indian Science Congress Association

Personal Details

Father's Name	:	K.S. Chowdary
Date of Birth	:	8 December 1980
Nationality	:	Indian
Marital Status	:	Married
Sex	:	Female

(K.SWAPNA VAHINI)