Dr. SABNA V.

Assistant Professor (contract)
School of Environmental Studies
Thunchath Ezhuthachan Malayalam University
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ACADEMIC PROFILE:

- **Ph. D Environmental Engineering**, National Institute of Technology Calicut, 2019
  Title of thesis: Nanomaterials based treatment of wastewater containing industrial dyes.
- **M. Sc. Environmental Technology** (specialization in Environmental Engineering), Cochin University of Science and Technology, 2008
- **B. Sc Chemistry** (Mathematics and Physics subsidiary, University of Calicut, 2006

AWARDS:

- **University Grants Commission National Eligibility Test -** Junior Research Fellowship (UGC NET – JRF - SRF) – April 2010.
- **First Rank - M. Sc Environmental Technology 2006 - 08** (specialization in Environmental Engineering), School of Environmental Studies, Cochin University of Science and Technology, Cochin, Kerala.
- **Merit Scholarship, M.Sc Environmental Technology 2006 – 08**, School of Environmental Technology, Cochin University of Science and Technology, Cochin, Kerala.

ORGANIZATIONAL EXPERIENCE:

- **Assistant Professor (contract): 18th June 2024 – till date),** School of Environmental Studies, Thunchath Ezhuthachan Malayalam University, Tirur, Kerala.
- **Guest Faculty: (2**2nd Aug 2023 – 27th March 2024), School of Environmental Studies, Thunchath Ezhuthachan Malayalam University, Tirur, Kerala.
- **Guest Faculty: (**2st June 2022 – 10th August 2023), School of Environmental Studies, Thunchath Ezhuthachan Malayalam University, Tirur, Kerala**.**
- **Guest Faculty:** 1st July 2021 – 31st March 2022), School of Environmental Studies, Thunchath Ezhuthachan Malayalam University, Tirur, Kerala**.**
- **Guest Faculty:** 25th June 2020 – 31ST May 2021), Department of Environmental Studies, Thunchath Ezhuthachan Malayalam University, Tirur, Kerala**.**
- **Guest Faculty:** 09th July 2019 – 31ST March 2020), Department of Environmental Studies, Thunchath Ezhuthachan Malayalam University, Tirur, Kerala**.**

- **Assistant Professor (contract)**: 27th Nov 2015 – 6th March 2018, Department of Environmental Science, University of Calicut, Kerala **(2 YEARS AND 3 MONTHS)**
- **Junior Research Fellow:** 23rd July 2010 – till date (part time), National Institute of Technology Calicut, Kozhikode, Kerala.
- **Junior Project Fellow**: 23rd Jan 2009 - 22nd July 2010, Central Water Analysis Laboratory, Centre for Water Resources Development and Management, Kozhikode, Kerala.

  Project Title: Soil Quality Monitoring of Cheruvannur and NallalamPanchayaths of Kozhikode District, Kerala.

  Description: A baseline data on soil pollution status of the solid waste disposal site of Kozhikode Corporation, Nhjeliyamparamba in Cheruvannur and NallalamPanchayaths, Kozhikode, Kerala.

  Responsibilities: Physical and chemical analysis of the soil and water samples including heavy metals and pesticides.
- **Scientific Assistant:** 04th July 2008 – 22nd Jan 2009, Entec Consultants, Cochin, Kerala

  Responsibilities: Preparation of Environmental Impact Assessment reports for the upcoming flats, transportation facilities, resorts etc. in Kerala.
- **Project Trainee with M. Sc. Dissertation:** 01st Jan 2008 – 15th May 2008**,** Indian Institute of Technology Kanpur.
  Project Title: Concentration Polarization Analysis during the treatment of Inorganic Chemical Industry Effluent by using Reverse Osmosis, Indian Institute of Technology, Kanpur

PAPERS IN JOURNALS:

- P. S. Harikumar, Moly A, **Sabna V,** Water and Sediment Quality Assessment of a Multipupose Reservoir in India, Journal of Environmental Science and Engineering, 2010, 4(2). 1-8
- P. S. Harikumar, Amit Dhruvan, **Sabna V**, Babitha, Study on the leaching of mercury from compact fluorescent lamps using stripping voltammetry, Journal of Toxicology and Environmental Health Sciences, 2011, 3(1), 8 – 13.
- **Sabna V**, Santosh G. Thampi and S. Chandrakaran, Adsorption of crystal violet onto functionalised multi-walled carbon nanotubes: equilibrium and kinetic studies, Ecotoxicology and Environmental Safety, 2016, 134 (2), 390 – 397.
- **Sabna V.**, Santosh G. Thampi, and S. Chandrakaran, Degradation of rhodamine B with manganese dioxide nanorods, Journal of Water and Health, 2018, 16(5), 846 – 856.
- **Sabna V.**, Santosh G. Thampi, and S. Chandrakaran, Adsorptive removal of cationic and anionic dyes using graphene oxide, Water Science and Technology, 2018, 78(4), 732 -742.

- **Sabna V.**, Santosh G. Thampi, and S. Chandrakaran, Sasina E. P. and Resmi P. fMWNTs/GO/MnO_2nanocomposites as additives in a membrane for the removal of crystal violet, Membrane and Water Treatment, 2021, 12(5), 205-216.

PAPERS IN CONFERENCE PROCEEDINGS:

- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Carbon nanotubes for desalination of water, Proceedings, Full paper, **International Conference & Exhibition on Water, Wastewater & Isotope Hydrology (ICE-WWISH-2013)**, Bangalore University, Bangalore, Karnataka, India.Vol III, Page 155-160.
- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Fabrication and characterization of functionalized multiwalled carbon nanotubes/ polysulfonenanocomposite membrane, **Swadeshi Science Congress 2014**, Malayalam University, Tirur,Kerala, India 2014, Page. 155.
- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Application of different isotherm models for equilibrium sorption of crystal violet onto functionalized multi-walled carbon nanotubes, **International Conference on Energy, Environment, Materials, and Safety (ICEEMS'14), School of Engineering,** Cochin University of Science and Technology, Cochin, Kerala, India 2014, Page. 225-234.
- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Investigation on the oxidative degradation of crystal violet using needle like MnO_2 Naonostructures, **28th Kerala Science Congress**, University of Calicut, Kerala, India 2016.
- **Sabna V,** Santosh G Thampi, S Chandrakaran, Manganesedioxide nanoparticles for the oxidative degradation of rhodamine B,**Fifth International Conference on Water, Energy and Environment, American University of Science and Technology, Sharjah,** UAE, 2017, Page 120 – 133.

ABSTRACTS IN CONFERENCE PROCEEDINGS:

- P. S. Harikumar, Amit Dhruvan, **Sabna V,**Babitha, Study on the leaching of Mercury from the Compact Fluorescent Lamps to the soil by Anodic Stripping Voltammetry, Abstract, Proceedings, **Young Environmental Researchers Conference**, Centre for Water Resources Development and Management, Kozhikode, Kerala, India.
- P. S. Harikumar, Amit Dhruvan, **Sabna V,** Study on the heavy metal pollution in the sediments of the rivers Periyar, Meenachil, Karamana and Kadalundi in Kerala, **Young Environmental Researchers Conference**, Centre for Water Resources Development and Management, Kozhikode, Kerala, India.
- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Oxidative Degradation of Rhodamine B using Needle like MnO_2 Nanoparticles, International **Conference On Innovations in Sustainable Water and Wastewater Treatment** Systems (**ISWATS**), Pune, India 2016, Page 73.
- **Sabna. V,**Santosh. G. Thampi and S. Chandrakaran, Functionalization of Multiwalled carbon nanotubes, Abstract Proceedings, **International Conference on Advanced**

Functional Materials (ICAFM 2014), National Institute of Interdisciplinary Science and Technology, Thiruvanathapuram, Kerala. India, Page 242,

- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Crystal Violet Adsorption on Functionalised Multi-walled Carbon Nanotubes: Kinetic And Equilibrium Studies, **International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC-2014)**, Department of Chemical Engineering, National Institute of Technology Tiruchirappalli, Tamil Nadu, India. 2014, Page 122.
- **Sabna. V**, Santosh. G. Thampi and S. Chandrakaran, Manganese dioxide nanoparticles for the oxidative degradation of methyl orange**International Online Conference on Sustainable Technologies in Water Treatment and Desalination (STWTD-2020),** Dept. of Chemical Engineering, National Institute of Technology Calicut.

TRAINING PROGRAMMES ATTENDED

- Career Advancement Program for Scientists/Academicians Training of Scientists, Technologists and Academicians with Special Focus on Women, Centre for Water Resources Development and Management, Kozhikode, Kerala, India 15th July 2011.
- TEQUIP II Sponsored Short Term Training Program on Environmental Forensics, Department of Civil Engineering, National Institute of Technology Calicut, Kozhikode, Kerala, India
- Instruments for Environmental Quality Assessment (IEQA-2015), Department of Civil Engineering, National Institute of Technology Calicut, Kozhikode, Kerala, India

WORKSHOPS ATTENDED

- Workshop on Research Methodology, Writing Practices and Language Skills, Central Water Analysis Laboratory (CWAL), Centre for Water Resources Development and Management, Kozhikode, Kerala, 04 – 05th March 2011.
- National Workshop on Multivariate Analysis using SPSS and Spreadsheets, School of Management Studies, National Institute of Science and Technology Calicut, Kerala,30th January to 1st February 2014.
- Workshop on Spectroscopy: Instrumentation and Applications, Applied Optics and Instrumentation Group, School of Nano Science and Technology, National Institute of Technology Calicut, Kerala, 11th January, 2014.
- TEQUIP II Sponsored National Workshop on Water, Air and Soil: Sampling and Analysis (WASSA-2014), Department of Civil Engineering, National Institute of Technology Calicut.

AREAS OF EXPERTISE

- Wastewater treatment using reverse osmosis and nanofiltration
- Nanotechnology applications in water, wastewater treatment and membrane technology
- Analysis of physical, chemical and biological parameters of the environment
- Environmental Management and Environmental Impact Assessment Studies
- Solid Waste Management