

Profile details

Dr. Vishnu P S

Assistant Professor (Contract)

School of Environmental Studies

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Academic Background

- Ph. D. in Environmental Studies (2022), Cochin University of Science and Technology/KSCSTE- Kerala Forest Research Institute, India
Title: 'Pedogenesis and Geochemical Transformations in Forest Ecosystems of the Western Ghats of Kerala'
- M. Sc. in Environmental Technology (2012), Cochin University of Science and Technology, India
- B. Sc. in Chemistry - Environment and Water Management (2010), Mahatma Gandhi University, Kerala, India

Awards

- Kerala State Council for Science, Technology & Environment (KSCSTE) Research fellowship
- UGC - National Eligibility Test in Environmental Science

Employment Records

- **Assistant Professor** (contract) at Thunchath Ezhuthachan Malayalam University, Tirur (June 2024- till date)
- **Consultant** at Foundation for Environmental Research and Innovation (FERI), Cochin, India (March 2024 – June 2024)
- **Farm manager** at Carbon Planet Limited, Dar Es Salaam, Tanzania (December 2023- March 2024)
- **Project fellow** at KSCSTE-Kerala Forest Research Institute (KFRI), India (June 2023 – December 2023)
- **Research Scholar** at KSCSTE-Kerala Forest Research Institute (KFRI), India (November 2015- October 2022)
- **Junior Research Fellow** at Rubber Research Institute of India (RRII), Kottayam, Kerala (February 2013- August 2015)
- **Intern** at The Energy and Resources Institute (TERI), New Delhi (December 2011- May 2012)

Publications in Journals

- Binsiya, T.K., Sandeep, S, **Vishnu, P. S.** (2024). Edaphic influences on soil organic carbon in the forest systems of southern Western Ghats, India. *Environ Monit Assess* 196, 821 (2024). doi.org/10.1007/s10661-024-12988-2
- **Vishnu, P. S.**, Sandeep, S, Anil Kumar, K.S. (2023). Taxonomy and genesis of soils in contrasting ecosystems of Southern Western Ghats, India, *CATENA*, Volume 231, 107325. doi.org/10.1016/j.catena.2023.107325.
- **Vishnu, P. S.**, Sandeep, S, Anil Kumar, K.S. (2022). Soil Taxonomy and Mineralogy of Varying Geological Parent Material in Moist Deciduous Forests in Southern Western Ghats, Kerala, *Clay Research*, Vol. 41, No. 2, 102-112. doi.org/10.5958/0974-4509.2022.00009.2
- **Vishnu, P. S.**, Sandeep, S. (2021). Variations in weathering of natural and man-made forest systems in the Southern Western Ghats, India. *Int. Res. J. Environment Sci.*, Volume 10, Issue (4), 1-7.
- **Vishnu, P. S.**, Sandeep, S. (2021). Variations in taxonomy and soil pedon characters of two contrasting forest systems in the Southern Western Ghats, India. *GREEN FARMING*. Vol. 12 (1&2), 7-12.
- **Vishnu, P. S.**, Sandeep, S., Sujatha M, P. (2017). Physico – chemical properties of forest soils in Kerala– A review. *IOSR Journal of Environmental Science, Toxicology and Food Technology*. Vol 11. 23-26. DOI:10.9790/2402-1101032326.

Paper presentations in Seminars/Workshops/Conferences

- Muhsina P and **Vishnu P S.** (2025). Impact of pollution on carbon sequestration potential in Mangrove forests: a study based on mangrove forests of Tirur, Kerala. 37th Kerala Science Congress at KAU, Mannuthy, Kerala
- **Vishnu, P. S.**, Sandeep, S. (2021). Clay mineralogy and weathering of soils in different forest ecosystems of the Western Ghats of Kerala. 23rd Annual Convention and National Conference on ‘Application of Clay and Allied Sciences in Agriculture, Environment and Industry’ at ICAR-IARI, New Delhi.
- **Vishnu, P. S.**, Sandeep, S. (2018). Genesis and transformation of soils in the Southern Western Ghats, Kerala. ‘Training cum workshop on methods and challenges for quantitative palynology and paleoecology in South Asia’ organized by the French Institute of Pondicherry.

- **Vishnu, P. S., Sandeep, S.** (2018). Evaluating soil carbon stocks in different forest types of Western Ghats, Kerala. '14th National Silviculture Conference' organized by Institute of Wood Science and Technology (IWST), Bangalore.

Articles in Periodicals

- Athira Saleevan., **Vishnu, P. S., Sandeep, S.**, (2023). മണ്ണിൽ മാറ്റങ്ങൾ സൃഷ്ടിക്കുന്ന കാടുകൾ. Aranyam.Vol 44 Issue 04. December
- Athira Saleevan., **Vishnu, P. S., Sandeep, S.**, (2023). വന മണ്ണിന്റെ പരിണാമങ്ങൾ. Aranyam.Vol 44 Issue 02. September

Workshops and Training Programs

- Training Course on 'Developing Entrepreneurship in Soil Testing using Pusa STFR Meter' at ICAR-Indian Agricultural Research Institute, New Delhi (November, 2023)
- Hands-on Training on 'Fundamentals in GIS & Remote Sensing' at Centre for Geoinformatics, IRTC, Palakkad (November,2023)
- DST sponsored training on 'Geospatial Technology and Applications' at JSS University, Mysore, Karnataka (August, 2012)
- Training program on 'Water Quality Assessment and Environmental Management' at Centre for Water Resources Development and Management (CWRDM), Kozhikode (December, 2007)

Dissertation Works

- 'Compositional Analysis of Selected Agro-Industrial Biomass Residues and Its Correlation with Pyrolysis Products of Slow Pyrolysis' under the guidance of Dr. Piyali Das, at The Energy and Resources Institute (TERI), India Habitat Centre, New Delhi (December 2011 to May 2012)
- 'Fluoride Removal from Water Using Nanomaterial' under the guidance of Dr. Santhosh G. Thampi, Professor in Civil Engineering, National Institute of Technology (NIT), Calicut, Kerala (May 2011 to June 2011)

Areas of Expertise

- Soil taxonomy & mineralogy
- Carbon sequestration
- Water quality & treatment