

Dr. Ashish Vilas Mane

Present Position

Assistant Professor

Contact Details



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Work Experience

- Teaching: 16 years
- Research: 16 years

Personal Profile

By now, I have total experience of 16 years of teaching and research. Before starting my position in Fergusson College (Autonomous), Pune. I delivered my services as Teaching Assistant at Shivaji University, Kolhapur while completing my doctorate degree. I am still learning even at this stage of academic career with core belief that its integral part of life's journey. Along with M. Sc. and Ph. D. in Environmental Science, I have also completed M. B. A. in Marketing, M. B. L., M. A. in Philosophy, Economics, Political Science while currently I'm pursuing M. A. in Sociology and Psychology. In addition, I have also completed PGD in ISO14000. By now, I have also guided around 100 undergraduate and postgraduate research projects. I am also a Ph. D. supervisor for four students of Savitribai Phule Pune University. I have completed two minor research projects funded by Board of College and University Development, SPPU and UGC. I have also experience of working with Maharashtra Pollution Control Board (MPCB) sponsored water quality monitoring project.

Since admission to Ph. D. program, I have tried to maintain sufficient record of research publications in reputed journals and the current number goes to 28. As part of interest in social work, I was also a founding president of non-governmental organization 'Sahyadri Environmental Awareness Organization' for almost ten years to spread the message of environmental conservation among the public. I am also an editor of online open access 'Universal Journal of Environmental Research and Technology'. By now, I have attended more than 30 Symposium /Conference/ Workshops and have by now participated in more than 50 co-curricular activities. Nowadays, my work profile is related with Teaching, Research, Consultancy, UG/PG and Ph. D. Project/Dissertation Guidance, Syllabus Development, Practical Incorporation, Field Visits, Innovative Educational Practices, Laboratory Development, Workshops/Seminar Conduct, Examination Work, Preparation of Reports etc.

I am confident to inculcate multidisciplinary and advanced aspects of Environmental Science among students. My methods of teaching and research include audio-video tools, notes, discussion, examinations, field surveys, photography and writing skills. The research areas of my interest are related with environmental sciences but not only limited to biodegradation of effluents, solid waste management, development of pollution control technologies, assessment of environmental impacts, assessment of toxicants and effects on plants, innovative technologies for treatment of wastes, water-soil-air quality assessment, phytoremediation and plant physiology etc. I am confident to carry out research in Environmental Science and all those related areas which are much needed to achieve targets of Sustainable Development.

Course(s) Taught

Undergraduate	Environmental Sciences
Undergraduate	Environmental Studies
Postgraduate	Environmental Sciences
PG Diploma	Environmental Sciences
Ph. D.	Environmental Sciences

Field of Specialization/Areas of Interests

Climate Change and Sustainability	Environmental Impact Assessment
Ecology and Sustainable Development	Environmental Issues and Solutions
Environmental Chemistry	Environmental Law
Environmental Ethics	Environmental Management
Environmental Health and Safety	Environmental Pollution
Environmental Studies	Sustainable Development
Wastewater Technologies	Water Resources

Education

Sr.No.	Degree/ Diploma	Board/ University	Institute/ College
1)	Class X	Maharashtra Board	D. A. Magdum Highschool, Kolhapur
2)	Class XII	Maharashtra Board	Vivekanand College, Kolhapur
3)	UG BSC Botany	Shivaji University, Kolhapur	Vivekanand College, Kolhapur
4)	PG MSC Environmental Science	Shivaji University, Kolhapur	Department of Environmental Science
5)	PG MBA Marketing Management	YCMOU, Nashik	Vivekanand College, Kolhapur
6)	PG MBL Business Laws	NLSIU, Bangalore	NLSIU, Bangalore
7)	PG MA Philosophy	IGNOU, New Delhi	IGNOU, Regional Center Pune
8)	PG MA Economics	SPPU, Pune	SPPU, Pune
9)	PG MA Political Science	IGNOU, New Delhi	IGNOU, Regional Center Pune
12)	PG PGDISO14000	AIIMAS, Chennai	AIIMS, Chennai
14)	PG MA Sociology	SPPU, Pune	Pursuing
15)	Ph.D. Environmental Science	Shivaji University, Kolhapur	Department of Environmental Science

Fellowship/Awards/ Certifications/Achievements/Recognitions
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1)	NET	National Level Eligibility Test for Lectureship	Conducted by UGC, May 2007
2)	NET	National Level Eligibility Test for Lectureship	Conducted by UGC, October 2007
3)	SET	State Level Eligibility Test for Lectureship	Conducted by SPPU, May 2006

Editor of Universal Journal of Environmental Research and Technology (www.environmentaljournal.org)

Recognized Ph. D. Guide in Environmental Science of Savitribai Phule Pune University, Pune

Completed two months training course on GIS and RS at Indian Institute of Remote Sensing (ISRO), Dehradun

Completed General Orientation Course, conducted by Academic Staff College, University of Pune

Completed Refresher Course in Environmental Science conducted by Academic Staff College, University of Kerala

Completed one week Faculty Development Programme in Academic Writing for Research organised by Teaching Learning Centre, Ramanujan College, University of Delhi

Completed two-week Faculty Development Programme in Entrepreneurship Development organised by Amrutvahini College of Engineering, Sangamner

Completed two-week inter-disciplinary Refresher Course on Environment and Human Health organised by Teaching Learning Centre, Ramanujan College, University of Delhi

Completed one week Faculty Development Programme in Soft Skills for Teachers organised by Faculty Development Centre, SPPU, Pune

Examiner/Paper Setter/Moderator for the Savitribai Phule Pune University, Solapur University and Shivaji University for UG/PG and Environmental Studies courses

Member of College Committees/ Professional Bodies and Others

Member of Admission Committee (UG)
Member of NAAC Committee for Criteria 3
Research Coordinator for Department
Dr. P.C Shejwalkar Incubation Centre Core Committee member
Member for Climate Reality project
BOS member in Environmental Science, Fergusson College, (Autonomous), Pune
BOS member in Environmental Science of New Arts, Commerce and Science College, Ahmednagar
BOS member in Environmental Science of Abeda Inamdar Senior College, Pune

Employment History

Assistant Professor, Department of Environmental Science, Fergusson College (Autonomous), Pune (Since 7th February 2009)

Teaching Assistant, Department of Environmental Science, Shivaji University, Kolhapur, (September 2005 to April 2008)

Lecturer in Vivekananda College, Kolhapur, (2005)

Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
Principal Investigator					
Treatment of Selected Industrial Effluents by Using Electrocoagulation as Clean Technology Option	UGC	2,20,000	2014-2016	Minor Research Project UGC, Western Regional Office, Pune	Industrial effluents were treated by using electrocoagulation at different conditions and efficiency was checked with innovative design
Treatment of Selected Industrial Effluents by Using Specially Designed Unit in combination with Electrocoagulation and Low-Cost Ecofriendly Materials	BCUD, Pune	2, 00,000	2014-2016	Minor Research Project	Industrial effluents were treated by using electrocoagulation and special treatment units were designed
Co-Investigator					
Studies on the Effluent of Laundry Units: Treatment, Toxicity and its Fate in Environment	BCUD, Pune	1,90000	2012-2014	Minor Research Project	Laundry wastewater was treated and physicochemical parameters were analyzed
Effect of Chromium and Lead on Some Biochemical Parameters of <i>Umbonium vestiarium</i> (L) Collected from Malvan Shore	BCUD, Pune	2, 35000	2012-2014	Minor Research Project	Effect of selected heavy metals was studied and biochemical parameters were studied

Additional Projects/Training

- 1) One month “Inplant training” completed at R.C.F. Ltd. Mumbai as a part of M. Sc. Course. It was related with Effluent Treatment Plant, Sewage Treatment Plant and pollution control aspects in the industry.
- 2) One year project completed on “Effect of Simulated Acid Rain on Selected Crop Species” as a part of M. Sc. course. Effect of different acidic treatments on the growth and some physiological parameters was studied.
- 3) One year project on “Customer Satisfaction with Reference to Ecofriendly Product: Ecoboard” was carried out as a part of M.B.A. course. It was related with primary data collection with extensive field survey about the product.
- 4) Environmental Ethics and Sustainability: A Case Study of Pune, A Project completed For the Partial Fulfillment of Master Degree in Philosophy.

Ongoing Research Students

Name of the Students	Title of Thesis
Ms. Praveen Hassanpour Fard	Contamination of Constituents of Emerging Concern in Water, Sediment & Aquatic Species from Selected Locations of Pune District
Mr. Abhijit Mohan Avasare	Work Zone Particulate Matter Assessment in foundry Industries with Special Emphasis on Silicosis
Ms. Revati Rahul Ghadge	Environmental Assessment of the Selected Smart Cities of Maharashtra and their Future Development towards Sustainability
Ms. Nilima Jagannath Deshmukh	Studies on Sustainability Practices Implemented in Selected Industrial Sectors of Western Maharashtra (India)

No. of Ph.D. Thesis supervised (completed):

Independently: **04 On-going**

Co-supervised: **02 On-going**

UG & PG Projects Supervised: 100 (UG & PG)

Research Publications in National and International Journals

1)	Effect of Salt Stress on Carbohydrate Contents in Four Grass Species (2010) Mane A. V., Karadge B. A., Samant J. S. <i>Environmental Science: An Indian Journal</i> , 5(4), 232-235.
2)	The Soil Quality Assessment with Reference to Selected Parameters Of Farmlands In Pune Region, Maharashtra (2010) Trimbake P. D., Singh R., Rane M. P., Ghorpade T. S., Mane A. V., Pathade G. R. <i>Environmental Science: An Indian Journal</i> , 5(4), 277-282.
3)	Noise Quality Assessment At Selected Locations of Fergusson College Road Of Pune And Its Effect On Urban Population (2010) Mane A.V.*, M.A.Joshi, U.P.Khandelwal, K.L.Bapat, R.D.Gaikwad. <i>Environmental Science: An Indian Journal</i> , 5 (6): 396-401.
4)	Salinity Induced Changes in Photosynthetic Pigments and Polyphenols of Cymbopogon Nardus (L.) Rendle (2010) Mane A. V., Karadge B. A. And Samant J. S. <i>Journal of Chemical and Pharmaceutical Research</i> , 2(3):338-347.
5)	Cadmium Chloride Induced Biochemical Changes in Triticum aestivum (L.) Var. MP LOK 1. (2010) Mane A. V., Ambawade M. S., Pathade G. R. <i>Nature Environment and Pollution Technology</i> , 9: 691-698
6)	Salinity Induced Changes in Catalase, Peroxidase and Acid Phosphatase in Four Grass Species (2010) Mane A. V., Karadge B. A. and Samant J.S. <i>Nature Environment and Pollution Technology</i> , 9 (4): 781-786.
7)	Cadmium Chloride Induced Alteration in Growth and Cadmium Accumulation in Triticum aestivum (l.) var. MP LOK (2010) Mane A. V., R. R. Sankpal, L. A. Mane, M. S. Ambawade, <i>Journal of Chemical and Pharmaceutical Research</i> , 2(5): 206-215.
8)	Studies on the Effects of Salinity on Growth, Polyphenol Content and Photosynthetic Response in Vetiveria zizanioides (L.) (2011) Mane A. V., Saratale G. D., Karadge B. A. and Samant J. S. <i>Emiratus Journal of Food and Agriculture</i> . 23 (1): 59-70.
9)	Salt Stress Induced Alteration in Photosynthetic Pigments and Polyphenols of Pennisetum alopecuroides (L.). (2010) Mane A. V., Karadge B. A. and Samant J. S. <i>Journal of Ecophysiology and Occupational Health</i> , 10 (3-4): 177-182.
10)	Salt Stress Induced Alteration in Growth Characteristics of Pennisetum alopecuroides (L.) Pers. (2011) Mane A. V., Karadge B. A. and Samant J. S. <i>Journal of Environmental Biology</i> , 32(6), 753-758.
11)	Effect of Varying Levels of Salinity on Nitrogen Metabolism of Four Grass Species (2011) A.V. Mane, V.B. Wagh, B.A. Karadge, J.S. Samant <i>Science Asia</i> (37): 285-290.
12)	Study of Zinc Chloride Induced Changes in Biochemical and Water Quality Parameters with Reference to Eichhornia crassipes (2011) Borker R., Mane A. V., Borker T. M., Saratale G. D. and Pathade G. R. <i>International Journal of Environmental Science</i> . 2 (2): 909-932.
13)	A Critical Review on Physiological Changes Associated with Reference to Salinity. (2011) Mane A. V., Deshpande T. V., Wagh V. B, Karadge B. A. and Samant J. S.. <i>International Journal of Environmental Science</i> , 1 (6): 1191-1216.
14)	Phytoremediation Potential of Aquatic Macrophyte Azolla caroliniana with References to Zinc Plating Effluent. (2012) Deval C. G., Mane A. V., N. P. Joshi, G. D. Sartale. <i>Emirates Journal of Food and Agriculture</i> , 24 (3): 208-223.
15)	Effect of Varying Levels of Salinity on Growth Characteristics of Cymbopogon nardus. (2012) Mane A. V., Suroshi V N., Karadge B. A. and Samant J.S <i>National Conference on Biodiversity Monitoring and Research</i> . Department of Zoology, Fergusson College, Pune.

16)	Phytoremediation Potential of Eichhornia crassipes for the Treatment of Cadmium in Relation with Biochemical and Water Parameters. (2013) Aditi R. Borker ¹ , Ashish V. Mane*, Ganesh D. Saratale* and Girish R. Pathade <i>Emiratus Journal of Food and Agriculture</i> , 25(6): 443-456.
17)	Water Quality and Sediment Analysis at Selected Locations of Pavana River of Pune District, Maharashtra (2013) Mane A. V., Pardeshi R. G., Gore V. R., Walave R. L., Manjrekar S. S. and Sutar G. N. <i>Journal of Chemical and Pharmaceutical Research</i> 5(8):91-102.
18)	Characterization and Treatment of Food Industrial Effluents Collected from Pune City (2013) Mane A. V. and Wael Qasim <i>Water Resources and Industry</i> (Elsevier). 4: 1-12
19)	Effect of Simulated Acidic Rain Concentrations on Selected Materials used In Construction (2013) P. D. Mahadam and Mane A. V. <i>Environmental Science: An Indian Journal</i> , 8(10).
20)	Changes in inorganic constituents in the leaves of Vetiveria zizanioides (L.) Nash under the influence of NaCl salinity' (2013) Mane A. V., Karadge B. A., Suroshi V. N., and Samant J. S. <i>Octa Journal of Environmental Research</i> , 1(4): 336-345.
21)	Municipal Solid Waste Management: A Case Study of Phursungi Plant, Pune (2013) Mane A. V. and Parveen Anjum <i>World Journal of Environmental Biosciences</i> , 89-99.
22)	Isolation of Phenol Degrading Microorganisms from Sewage and Degradation under Optimized Conditions (2014) Trimbake P. D., Ambawade M. S. and *Mane A. V. <i>International Journal of Research in Chemistry and Environment</i> , 4(2): 18-30.
23)	A Critical Overview of Legal Profile on Solid Waste Management in India (2015) Mane A. V. <i>International Journal of Research in Chemistry and Environment</i> , 1-16.
24)	Biodegradation of Dairy Effluent by Using Bacterial Isolates Obtained from Activated Sludge (2015) Porwal H. J., Mane A. V. and Velhal S. G. <i>Water Resources and Industry</i> , 9: 1-15.
25)	Groundwater quality assessment and GIS based mapping of selected areas of Mangrol Coast, Gujarat, India (2015) Ashish Vilas Mane, Karishma Salim Bhai Dhanani ¹ , Kratika Joshi and Chandani Salim Bhai Dhanani. <i>Journal of Chemical and Pharmaceutical Research</i> . 7(5):649-660.
26)	Removal of Copper (II) Using Bio-adsorbents from Prepared Aqueous Solution. Pramod N Kamble, Ragini G Bodade, Abhijit K Sagar, Goraksh M Pondhe, Viswas B Gaikwad, Ashish V Mane (2018), <i>Nature Environment and Pollution Technology</i> , 17 (1)-215-222.
27)	Water and Soil Quality Analysis of Selected Areas of Sunderban and Mapping Using GIS Technique. Mane Ashish Vilas and Ghosal Ashwinova (2015). <i>International Journal of Research in Chemistry and Environment</i> , 5 (4): 44-59.
28)	Investigation of inorganic nutrients available in Mula and Mutha River from Origin to Pune City, India (2021) Pande Shruti Dhananjay, Vedanti Tejal, Mane Ashish Vilas and Supekar Ashwini. <i>International Research Journal of Environmental Sciences</i> , 1414 10(1), 48-54.
29)	Impact of transport sector emissions on biochemical characteristics of plants and mitigation strategy in Pune, India (2021) Pramod Kamble, Mane Ashish <i>et al.</i> , <i>Environmental Challenges</i> , 10081

Participation in Conferences/Seminars/Symposia/Workshop:

Sr.No.	Name of the Conference/Activity	Year
1)	National Symposium on Recent Trends in Biology and Biotechnology and 23rd Annual Session of the Academy of Environmental Biology organized by Department of Zoology, SUK and Academy of Environmental Biology, Lukhnow.	2003
2)	Workshop on “Water: A Scarce and Sacred Resource” organized by Department of Environmental Science, Shivaji University, Kolhapur	2004
3)	23rd Conference of Indian Society for Comparative Animal Physiology on Frontiers in Applied Animal Sciences, organized by Department of Zoology, Shivaji University, Kolhapur	2006
4)	“Self Instructional Material Preparation” in Environmental Studies organized by Centre for Distance Education, Shivaji University, Kolhapur	2008
5)	Workshop on “Applications of GIS and Remote Sensing in Globalized World”	2009
6)	National conference for Women ‘We Meet’	2010
7)	Workshop on “Computer Assisted Instruction with Reference to Computer Assisted Language Learning”	2010
8)	National Symposium on “Recent Trends in Life Sciences” (RTLS-2011)	2011
9)	International conference on “Recent Developments in Environmental Impact Assessment (EIA) & Integrated Approach for Carbon Management” held in NEERI, Nagpur	2012
10)	‘International Conference on Sustainable Water Resource Development and Management’ organized by Department of Environmental Science, Shivaji University, Kolhapur	2012
11)	National conference on “Carbon Credits: Roles and Responsibilities” at Abeda Inamdar College, Pune	2012
12)	Public Hearing on Environment and Development” conducted by Shivaji University, Kolhapur, The People Commission on Environment and Development, New Delhi, Devarai and WWF- Kolhapur	2012
13)	8th DGSI International Geography Conference to be held in Sheth J.N. Paliwala, A.S.C. College, Pali -Sudhagad	2013
14)	International conference on ‘Waste, Wealth and Health’ organized by IIWM and Madhya Pradesh Council of Science and Technology, Bhopal	2013
15)	Regional Research Conference for Pune University College Teachers ‘INNOVATION 2013’	2013
16)	Youth Seminar organized by TERI and Ministry Of Youth Affairs and Sports in Fergusson College, Pune	2013
17)	Workshop on ‘Credit System for organized by H. V. Desai College in Association with BCUD, University of Pune Postgraduate Programme’	2013
18)	‘International Conference on Recent Developments in Stratigraphy’ organized by Department of Geology, Fergusson College, Pune	2013
19)	National workshop on ‘Green Economy in Relation to Rural Development’ organized by BAIF Development Research Organization, Pune	2014
20)	International Conference on Biodiversity and Environmental Management 2020 (Scientific Committee Member)	2020
21)	Two Months Internship cum training programme on ‘Counselling Skills, Mental Disorders and Clinical Practice’ organised by Harmony Health Counseling Services, Pune	2021
22)	Online Course in ‘Export & Import with Global Management’ organised by Udyogvardhini	2021

Events Organized/Coordinated

As part of syllabi content for UG and PG courses various workshops and seminars are continually organised in the Department of Environmental Science, Fergusson College (Autonomous), Pune. These mainly focus on the areas of environmental science and management.

Some of the major areas covered in recent years are

Waste Management,	Waste Management,
Research Methodology,	Research Methodology,
Biodiversity Conservation,	Biodiversity Conservation,
Impact Assessment Studies	Impact Assessment Studies
Climate Change and Sustainability	Climate Change and Sustainability
Waste Management,	Waste Management,
Research Methodology,	Research Methodology,
Biodiversity Conservation,	Biodiversity Conservation,
Impact Assessment Studies	Impact Assessment Studies
Climate Change and Sustainability	Climate Change and Sustainability
Skill Enhancement	Research Methodology
Waste Management	Biodiversity Conservation
Impact Assessment Studies	Climate Change and Sustainability
Climate Change and Sustainability	Skill Enhancement
Skill Enhancement	Ecofriendly Product Development
Ecofriendly Product Development	Entrepreneurship Development
Hydroponics	Software in Environmental Science
Environmental Ethics	Environmental Law
Environmental Safety	Wastewater Technologies
Environmental Issues and Solutions	Water Conservation Approaches

List of Important activities conducted in Department of Environmental Science, Fergusson College (Autonomous) since 2017 are

Tree Plantation Drive	Plastic Free Campus
Watershed Management Workshop	Wild India Film Festival
Kirloskar Vasundhara International Film Festival	Beat The Plastic Pollution
Entrepreneurship Development Workshop	Best Practices in Waste Management Workshop
UG and PG Excursions	Green Economy Workshop
Life Cycle Assessment	Climate Reality Program
Conservation Dynamics in Central India Tiger Reserves	Western Ghats and Its Ecosystem
Maharashtra Star Rating Program	The Climate Reality Project
Master's Training Program on Green Campus	Study Visit to Ujani, Wetland
Study Visit to Empress Garden	Study Visit to Pachmarhi, Madhya Pradesh

Biodiversity of India	Interaction with Alumni
Fellowship Opportunities in The Environmental Field	Session On Wetland Day
Session on Hydroponics	World Meteorological Day
Pune City Air Action Plan	Environmental Sustainability and Resilience in the Context of Sustainable Development Goals
Interaction with Alumni: Meet A Friend	Moth Week
Spider Week	Interaction with Alumni
Tracking Illegal Wildlife Crime	Big Butterfly Month
Ban on Single Use Plastic	Metal Bottle for My Friend
Workshop on Sustainable and Eco-Friendly Products	International Conference on Biodiversity and Environment Management
Nadi Ki Pathshala	World Environment Day 2022

Additional Skills/Activities

Scientific Assessment and Skills Associated with Special Areas of Interest	
Water Quality Monitoring	Water Quality Monitoring
Soil Quality Monitoring	Soil Quality Monitoring
Environmental Impact Assessment Studies	Environmental Impact Assessment Studies
Measurement of Climatic Changes	Measurement of Climatic Changes
Sustainability Practices in Industries	Sustainability Practices in Industries
Environment, Forest	Environment, Forest
Environment, Forest	Wildlife Clearances
Climate Change Mitigation and Emissions Reduction	Environmental Management & Sustainable Solutions for Industries
Environmental Management & Sustainable Solutions for Industries	Green Buildings and Sustainability
Green Buildings and Sustainability	Environment, Social and Governance
Environment, Social and Governance	Water, Wastewater Treatment
Wealth from Waste	Pollution Control
Wildlife Clearances	Research Report Writing
Water, Wastewater Treatment	Pollution Control
Research Report Writing	Environmental Surveys
Some Special Software	
SAFA assessment	OpenLCA, SimaPro
Statistical Software: SPSS, Graphpad Prism	CropWat Trajectory Analysis
Arc GIS	Life Cycle Assessment Studies

Course Content Developed (e-content)

Special Micro-Notes for UG and PG Students as per Syllabi

Blog Contents

Online Open Access Research Articles

Video Lectures