

# Priti Vinyak Aphale, PhD

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## Present position-

- Assistant Professor

## Contact Details (Mention email) – fergusson.edu or despune.org



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## Work Experience

- Teaching: 18 years
- Research/Industrial: 15 years

## Personal Profile

### Short Summary

Hailing from a rural background of Western Maharashtra, after completion of my post-graduation in Environmental Science with gold medal from Shivaji University, I started my career in Environmental Education. I discovered my passion in teaching as it is the powerful medium for spreading awareness and emerging with innovative solutions for grass root Environmental issues. Teaching itself is one of the solutions where you can motivate students to take up projects which have real life problems and solutions. Since moving to Education hub, Pune 17 years ago, I've been truly driven to improve my skills for cognitive, affective, psychomotor teaching and learning. The skills were effective in my learning and teaching strategies towards the necessities of my students' individual needs. I began to explore active learning. "Active Learning" is, in short, whatsoever students do in a classroom other than simply inertly listening to a teacher's lecture. This includes everything from listening practices which help the students to absorb what they hear, to short writing exercises in which learners react to lecture material in the form of cantastoria, to role plays, to complex group exercises in which they are able to apply course material to "real life" situations and new problems. Building these skills, I'm very motivated by the outcomes of the methodologies I have been using towards achieving the problem solving approach in Environmental issues at various levels. I am proud of my contributions towards teaching to motivate students to identify their strengths and weaknesses and how to turn them into challenges/targets to achieve their career goals. I am also proud of my research in conservation of Western Ghats, Maharashtra, a global Biodiversity Hotspot where I am specifically working on Plateau Biodiversity assessment and Conservation. I have had a number of excellent professional development opportunities such as learning about various software in environmental data analysis, discussing technology with innovative educators, and exploring the revised curriculum. In future, I also want my students to understand the Ecosystems on our Mother Earth, but not just because they are fascinating and the human mind is curious, I want them to understand it so that they will be positioned to make them more healthy and self-sustaining.

## Course(s) Taught (Only Titles)

1. Earth and Earth Surface Processes
2. Systematics and Biogeography
3. Ecology and Ecosystems
4. Urban Ecosystems
5. Natural Ecosystems Management
6. Restoration Ecology
7. Environmental Biology
8. Biodiversity and Conservation
9. Green Technology
10. Watershed Development

## Field of Specialization/Areas of Interests

Ecology, Restoration Ecology  
Biodiversity and Conservation  
Green Technology especially Green City perspective

## Education

- **Ph.D. – Environmental Science:** from 2012 to 2019  
**Title of the Thesis: Studies on Ecogeomorphology and Vegetation patterns of plateaus in Western Ghats, Maharashtra**  
**Name of University / Institution: Savitribai Phule University of Pune**  
**Year of Award- April 2021**
- **Master of Science- (Environmental Science):** 2000  
University- Shivaji University, Kolhapur
- **Bachelor of Science- (Botany-Pollution):** 1998  
Yashwantrao Chavan College of Science, Karad, Shivaji University Kolhapur, Place- Karad,

## Fellowship/Awards/ Certifications/Achievements/Recognitions

1. Received “**Best Presenter of the session**” Award in International Conference on Biodiversity and Environmental Management 2020 (BEM 2020) Biodiversity and Environment Management at University of Jayawardanapura, Sri Lanka on Multivariate characterization of Trace, Major and Nutrient Elements from the microhabitats of selected Plateaus in the Western Ghats, Maharashtra on 25th November 2019

## Member of College Committees/ Professional Bodies and Others

College Level	Professional Bodies	Others
Member of Admission Committee(UG)		-
Member of NAAC Committee for Criteria 7		
Departmental coordinator for DBT(STAR)College		
Coordinator for Departmental Activities		
Coordinator for Eco-Rangers under Kirloskar Vasundhara International film festival		
Member for Climate Reality project		

## Employment History

- 1) **Organization : Dhananjayrao Gadgil College of Commerce, Satara**  
**Role : Teacher for Environmental Awareness course**  
**Duration : 2005-2007**

<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>Teaching for SYBcom</li> <li>Evaluation of projects</li> </ul>
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## Research Projects

Title of the Project	Name of Funding Agency	Amount (Rs)	Duration (Year) (From To)	Type (Minor/Major)	Outcome
1.Community Participation in conservation of Sacred Groves of Maval Tehsil Pune	BCUD, Pune	1,50,000	2012-2014	Minor Research Project	A detailed action plan was submitted to Pune forest department, Bhamburda region

2. Identification of Threats with respect to plateaus of Western Ghats, Maharashtra	BCUD, Pune	1,50,000	2015-2017	Minor Research Project	Threats to plateaus which are neglected Ecosystems of Western Ghats one of the Biodiversity Hotspots of the world have been identified.
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### Research Publications in National and International Journals

1.Karikar, S.P., S.V. Mali, K. Prasad & A. Priti (2019). An assessment of bird communities across Ujjani and its five satellite wetlands in Solapur District of Maharashtra, India. *Journal of Threatened Taxa* 11(15): 14989–14997. <https://doi.org/10.11609/jott.4741.11.15.14989-14997>

2.Aphale, P.V., D.C. Meshram, D.M. Mahajan, P.A. Kulkarni & S.P. KulKarni (2019). Multivariate analysis of elements from the microhabitats of selected plateaus in the Western Ghats, Maharashtra, India. *Journal of Threatened Taxa* 11(10): 14334–14348. <https://doi.org/10.11609/jott.4980.11.10.14334-14348>

3.Aphale, P.V., Meshram, D.C. and Mahajan, D.M., Comparative Assessment of Nutrient Status of Selected Plateaus in Western Ghats, Maharashtra. IJAPRR International Peer Reviewed Refereed Journal, Vol. VI, Issue V, p.n.01-12, April, 2019 • Aphale, P.V., Meshram, D.C. and Mahajan, D.M.

[http://www.ijaprr.com/download/issue/Volume\\_VI/Issue\\_IV/247\\_Volume\\_VI\\_Issue\\_IV\\_09%20-%2015\\_Priti\\_Vinayak.pdf](http://www.ijaprr.com/download/issue/Volume_VI/Issue_IV/247_Volume_VI_Issue_IV_09%20-%2015_Priti_Vinayak.pdf)

### Participation in Conferences/Seminars/Symposia/Workshop:

1. International Conference on Biodiversity and Environmental Management 2020(BEM 2020) Paper presentation at Biodiversity and Environment Management at University of Jayawardenapura, Sri Lanka on Multivariate characterization of Trave, Major and Nutrient Elements from the microhabitats of selected Plateaus in the Western Ghats, Maharashtra on 25th November 2019
2. Dr. Aphale P.V, Dr. Shraddha Kulkarni .International Conference on Biodiversity and Environmental Management 2021 (BEM 2021) paper presentation on An Assessment of Threats to the Plateaus of Western Ghats, Maharashtra, India on 12-13 November 2021(online)
3. Dr. Aphale P.V, Dr. Gaikwad R.D. .International Conference on Biodiversity and Environmental Management 2021 (BEM 2021) paper presentation on Pashan Lake on 12-13 November 2021(online)

**Events Organized/Coordinated:**

Sr. No	Name of the Event	Name of organizing Institute/ College/ University	Nature of contribution	Dates
1	Tree plantation Drive	College has a very rich Botanical Garden in terms of unique species.	Member of tree plantation coordination committee	12th July 2017.
2	Watershed Management workshop	Under the College with Excellence program in association with ACWADAM, Pune two days' workshop on Watershed Management was organized for MSc students. Students benefited from the  Workshop through various case studies and practical conducted during the workshop.	Coordinated the workshop	9 th .10 th February 2018
3	Kirloskar Vasundhara International Film Festival	Under Kirloskar Vasundhara Film Festival .A number of documentaries were screened followed by discussion on various issues of Environment and protection.	Coordinated activities at college level	January 2017
4	A River walk	A River walk has been organized by the Department in association with Jeevit-nadi, Pune under Kirloskar Vasundhara Film Festival for school children. Students from Ahilyadevi, New English School Tilak Road actively participated in a walk to understand cultural, social, Environmental aspects of the River Ecosystem.	Coordinated the activity	
5	National Science Day	MSc I students of the Department have conducted discussion sessions on Environmental Science, an Interdisciplinary branch of Science for 7 th standard students of Ramanbaug High	Coordinated the activity	28 <sup>th</sup> February

		School, Pune.		2018
6	MSc I Excursion to Kalinje, District Raigad	Students studied Mangrove Forest and Community participation activities for various species including Olive Ridley Turtle and White Backed Vulture. Socio-economic survey has been conducted.	Coordinated the study visit	29 <sup>th</sup> January to 1 <sup>st</sup> February
7	F.Y.B.Sc Excursion to Ujani, Baramati	Student's Study visit was organized to Ujjani, Baramati, Pune, for study of wetland bird communities.	Coordinated the study visit	15 <sup>th</sup> February 2018
8	Bird walk	M.Sc I and M.Sc II. Students have taken to Kavati Paat, a wetland near Pune City to study migratory bird species.	Coordinated the study visit	23 <sup>rd</sup> February 2018
9	Tree plantation Drive:	.Around 150 different plant species have been planted in college campus Including Botanical Garden..	member of tree plantation committee	12th July 2018
10	Entrepreneurship Development Workshop	Under DBT Star College Scheme workshop was conducted by Dr. Adesh Gokhale Council Member DES on start-up program for Entrepreneurship Development on	Coordinated the activity	18 <sup>th</sup> August 2018
11	Green Economy Workshop	Under DBT Star College Scheme workshop was conducted by Dr. Gurudas Nulkar Head, Ext-MBA Symbiosis International University, Pune on Green Economy and was organized for MSc students in the Department of Environmental Science.	Coordinated the activity	29 <sup>th</sup> August 2018

12	Best Practices in Waste Management workshop	Under DBT Star College Scheme workshop was conducted by Mr. Shrikant Parab Director, Asia Affairs, Delta Group, USA on Best Practices in Waste Management was organized for students in the Department of Environmental Science.	Coordinated the activity	30 <sup>th</sup> August 2018
13	Film Screening and Interaction with S. Nalla Muthu	Interaction was organized with the director of the film Clash of Tigers on Teachers and students of other colleges along with Fergusson College students involved in the program.	Coordinated the activity	2 <sup>nd</sup> January 2019.
14	River Ecology Workshop	Under DBT Star College Scheme Workshop was conducted by Oikos, Pune on River Ecology and was organized for students in the Department of Environmental Science.	Coordinated the activity	7 <sup>th</sup> January 2019
15	Biodiversity Conservation: Issues and Solutions Seminar	Under DBT Star College Scheme conducted Seminar by Dr. Madhukar Bachulkar Cholekar Principal Vijay Singh Yadav Science College; Kolhapur on Biodiversity Conservation: Issues and Solutions	Coordinated the activity	8 <sup>th</sup> January 2019
	Hydrogeology Workshop	Under DBT Star College Scheme conducted Workshop was conducted by Dr. Chris Bradley Senior Lecturer School of Geography, Earth and Environmental Sciences University of Birmingham UK on Hydrogeology on was organized	Coordinated the activity	8 <sup>th</sup> January 2019
16	Climate Change Workshop:	Under DBT Star College Scheme Workshop was conducted with Professor John Bull Associate Professor (Senior Lecturer) in Pollution Ecology, School of Geography, Earth and Environmental Sciences, University of Plymouth on Climate Change on was organized for students	Coordinated the activity	17 <sup>th</sup> January 2019

17	Bioremediation of Toxic wastes Workshop:	The DBT Star College Scheme seminar was conducted by Dr. Yogesh Patil Professor and Head Research and Publication Symbiosis International University, Pune on Bioremediation of Toxic wastes was organized for students.	Member of the committee in coordinating the activity	22 <sup>nd</sup> January 2019
18	Colloquium on Sacred Groves	In association with Maharashtra Vriksha Samvardhini has been conducted on.Commonwealth Award winning Documentary screening “Sacred Groves: Traditional treasure-trove of Environment” has been done. Number of NGOs from Pune and Mumbai area have been involved.	Activity coordinator	11 <sup>th</sup> February 2019
19	Environment Day Celebration:	College has participated in events organized byPune Municipal Corporation on World Environment Day. It includes Cycle Rally, awareness campaigns, and plantation drive. For the event this year many government and other officials were present.	Coordinated the activity	5 <sup>th</sup> June 2019
20	Tree plantation drive	Plantation drive was conducted in Fergusson College campus and Fergusson hill .This drive was organized in association with Pune Municipal Corporation.	Member of tree plantation committee	1 July 2019.
21	Kirloskar Vasundhara International Film Festival:	1. Ramnadi Parikrama: Under Kirloskar Vasundhara International Film Festival,Eco-Rangers program has organized, to understand the Ramnadi from its source region near Khatpewadi to Pashan lake a Parikrama has been organized.The stretch which has been adopted by students of college is Pashan Lake Stretch, where awareness and action oriented programs have been conducted for the entire year. The findings of various research projects and activities also presented in  2.Ramnadi Yuva Sansad. Kirloskar Eco-rangers’ inauguration program:an	Activity coordinator	14/9/2019



		<p>introductory program has been organized on Ramnadi Restoration Mission. Program was followed by Workshop on insect photography entitled 'Joy at Fingertips' by Mr. Alok Shevde</p> <p>3. Ramnadi Yuva Sansad: The program have been hosted by Fergusson college where 15 different colleges have presented their work</p>		
22	Beat the Plastic Pollution:	Under Kirloskar Vasundhara Film Festival in association with Terre Policy Center, awareness programs on Plastic Pollution have been organized. have given a talk on Micro plastics and Consequences of Plastic Pollution.	Coordinated the activity	4/1/2020
23	Wild India Film Festival	<p>A film festival organized by Fergusson College in association with NatureWalk, Adventure Foundation from 22 to 25 Aug 2019. Various National and International wildlife documentary screened during this festival. Nature walk conducted in Fergusson College campus and Kamala Nehru Park in presence of renowned botanists like Dr. Mandar Datar, Dr.Sachin Punekar and Dr.S.D.Mahajan. On 24/8/2019 Shri. Madhav Gadgil, Shri. S.D. Mahajan, Sachin Punekar, Rahul Marathe interacted with students in a Panel discussion organized on current issues ofBiodiversity conservation. Eco-quiz was conducted for undergraduate and postgraduate students on 24/8/2019. Wildlife conference was held on 25/8/2019. Mr.Nalla Mutthu conducted a workshop on 'Basics of wildlife Filmmaking workshop on 25/8/2019. Wild India Film festival concluded on 25/8/2019 with a very informative talk by Dhritiman Mukhargee followed by an award winning film screening.</p>	Coordinated the activity	22 to 25 Aug 2019.

24	Plastic free campus	To aware the masses about plastic pollution collection drive and awareness activities like flash mob in front of main building on ng Kirloskar Vasundhara International film festival in Balgandharva Rangmandir, JM Road on 7 <sup>th</sup> January 2020 have been performed by students	Coordinated the activity	2 <sup>nd</sup> Oct 2019 and duri
25	Life Cycle Assessment	In association with Sharada Shakti, a session has been organized. Students learned the basics of Life Cycle Assessment as well as calculating Ecological Footprint at the individual level.	Coordinated the activity	2/8/2019
26	Climate Reality program	Under Climate Reality Program on an interaction with has been organized to discuss various policy interventions to be made to make college more sustainable and Eco-friendly	Coordinated the activity	14/12/2019
27	Conservation dynamics in Central India Tiger Reserves	An interaction has been organized Students benefited by the interaction in terms of various techniques used by Madhya Pradesh Forest Department in Tiger Conservation.	Coordinated the activity	7/12/2019
28	Western Ghats and its Ecosystem	An invited talk on Lesser Known Ecosystems has been successful towards making students aware about various neglected ecosystems of Western Ghats like Rock outcrops and their conservation issues.	Coordinated the activity	16/9/2019

29	Maharashtra Star rating program	An interaction was fruitful in understanding Air pollution scenario in Indian cities and the role of common citizens towards the pollution tolerance.	Coordinated the activity	18/7/2019
30	The Climate Reality Project	Sessions on solar Energy, Biodiversity Conservation, Rainwater Harvesting etc conducted Green Schools of the Future for the master trainers. Further, these experts have been connected to master trainers through online platforms and offline interactions as and when requested by individual institutions.	Coordinated the activity	6th July 2019
31	Master's Training Program on Green Campus	A training was organized to train the team leaders from various schools from Deccan Education Society.		25 <sup>th</sup> and 26 <sup>th</sup> September 2019
32	Study visit to Ujani for FYBSc	Students visited a wetland to study ecotourism and wetland Bird Communities	Coordinated the activity	
33	Study Visit to Empress Garden for FYBSc	Students visited a urban garden to study plant and bird Communities	Coordinated the study visit	
34	Study Visit to Pachmarhi, Madhya Pradesh	Students visited a forest to study ecotourism and forest research institute	Coordinated the activity	
	Biodiversity of India	Students learned about the importance of Biodiversity of India	Coordinated the activity	5th october 2020

35	Interaction with Alumni fellowship opportunities in the Environmental field	She also talked about various fellowship opportunities in the Environmental field including SPARK Fellowship by BAIF.	Coordinated the activity	19th Feb 2021
36	Session on wetland day	Students understood wetlands of Pune and their importance	Coordinated the activity	3rd February 2021
37	Session on Hydroponics	Students understood the technique of Hydroponics	Coordinated the activity	11th Feb 2021
38	World Meteorological Day	Students learned about the concept of “Climate Crisis : Action Begins Now”	Coordinated the activity	23rd march 2021
39	Pune City Air Action Plan	Students learned about the air pollution monitoring of Pune City	Coordinated the activity	9 th march 2021.
40	Environmental Sustainability and Resilience in the context of Sustainable Development Goals	Students learned about Sustainability and what strategies are needed to achieve SDGs	Coordinated the activity	25th March 2021.

41	Interaction with Alumni: Meet a friend	Students interacted with alumni and learned about aspects of wastewater treatment	Coordinated the activity	17th July 2021
42	Moth Week	Students learned about How every student can participate and contribute in data collection	Coordinated the activity	24th July 2021
43	Spider Week	During the five days 20 species of spiders have been identified and documented.	Coordinated the activity	14th to 22nd August 2021
44	Interaction with Alumni  Tracking illegal wildlife crime	Students understood pros and cons of wildlife crime and how to track these illegal activities	Coordinated the activity	15th December 2021.
45	Big Butterfly Month	On this occasion students of the Environmental science department conducted a Butterfly Survey of Fergusson College Campus	Coordinated the activity	September 2021
46	Ban on Single use Plastic	The purpose of the event was to propose Fergusson College to initiate activities to ban Single Use Plastic in the Campus and declare it as 'First College to Ban Single Use of Plastic' by adopting authenticated verification methods. The college is continuing to make efforts to remain a Single Use Plastic Free Campus.	Member of the coordinating committee	11 <sup>th</sup> October 2021

47	Metal bottle for my friend	To avoid the use of plastic bottles on 29th October 2021 metal bottles were distributed among the workers.	member of the organizing committee	29th October 2021
48	Nadi ki Pathshala	The program was organized in association with Vanrai,Jal Biradari, College of Agriculture,Pune,College of Agriculture Rahuri and Yashada,Pune, The course focuses on understanding the river Ecology and managing our rivers accordingly.	Coordinated the activity	28th March 2022
49	International Conference on Biodiversity and Environment Management	Department has organized International Conference on Biodiversity and Environmental Management (BEM) in association with the Academic Partners, Center for Sustainability, Department of Forestry and Environmental Science, University of Jayewardenepura, Sri Lanka and Deccan Education Society's Fergusson College (Autonomous) Pune, India on was organized on 12th -13th November 2021 (online) has laid foundation of conscious thinking and living a sustainable life.	Coordinated the activity	12 and 13 November 2021,online
50	Workshop on sustainable and Eco-friendly products	Under STRIDE (Component I) workshop was organized on eco-friendly products to make students aware about the opportunities on designing and developing eco-friendly products.	Coordinated the activity	6 <sup>th</sup> May 2022
51	World Environment Day 2022	Observance of World Environment Day was organized on the topic Climate change and Role of youth in Tribal areas.	Coordinated the activity	5 <sup>th</sup> June 2022

### **Additional skills/Activities**

- Biodiversity data assessment for Environmental variables
- Basics of Remote sensing and GIS
- Plateau vegetation identification and monitoring
- Biodiversity monitoring skills, etc.

### **Course Content Developed (e-content)**

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### **Consultancy Services**

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