

Kumaun University, Nainital Curriculum Vitae

Name : **Dr. Maitreyie Narayan**
Designation : Assistant Professor (Guest Faculty)
Department : Forestry
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Educational Qualification

Degree	University	Subjects	Year
Graduation	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	Home Science	2013
Post-graduation	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	Environmental Science	2015
Ph. D.	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	Environmental Science	2019

Work Experience

Position	Department	University/Organization	Year
Guest Faculty	Department of Forestry	Kumaun University, Nainital (Uttarakhand)	18/11/2020 to Present
Guest Faculty	Department of Himalayan Aquatic	Hemwati Nandan Bahuguna Garhwal University, Central University, Srinagar, Garhwal	09/09/2019 to 20/05/2020

	Biodiversity	(Uttarakhand)	
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Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Member	Management	Admission Committee (Bio Group), D.S.B. Campus, Kumaun University, Nainital	2022-2023

Research Interests

My research interests in environmental science are centered around investigating the intricate relationships between human activities and the natural environment, with a focus on addressing pressing environmental challenges. Specifically, I am keenly interested in studying the impacts of climate change on ecosystems and biodiversity, and exploring innovative strategies for climate change adaptation and mitigation. Additionally, I am passionate about researching environmental pollution, including air, water, and soil contamination, and developing effective remediation techniques to safeguard human health and ecosystem integrity. Through my research endeavours, I aim to contribute to the development of sustainable solutions that promote environmental resilience and enhance the well-being of both present and future generations.

Publications

a) Research Papers

S. No.	Author	Title	Journal	Volume	Page	Year
1.	Maitreyie Narayan, Praveen Solanki and RK Srivastava	A review of constructed wetland coupled with microbial fuel cell: A recently emerged technology	The Pharma Innovation Journal DOI: https://dx.doi.org/10.22271/tpi	8(4)	422-428	25/03/2019
2.	MAITREYIE NARAYAN, PRAVEEN	ASSESSMENT OF PHYSICO-CHEMICAL	Pollution Research	38 (1)	188-192	20/11/2018

	SOLANKI AND R.K. SRIVASTAVA	CHARACTERIS TICS OF PULP AND PAPER INDUSTRY EFFLUENTS				
19.	Maitreyie Narayan, Praveen Solanki, Amit Kumar Rabha and Rajeev Kumar Srivastava	Treatment of pulp and paper industry effluent and electricity generation by constructed wetland coupled with microbial fuel cell (CW- MFC)	Journal of Pharmacognosy and Phytochemistry DOI: https://dx.doi.org/10.22271/phyto	7(6)	493-498	03/10/20 18
15.	Praveen Solanki, Maitreyie Narayan, Amit Kumar Rabha, Rajeev Kumar Srivastava	Assessment of Cadmium Scavenging Potential of Canna indica L.	Bulletin of Environmental Contamination and Toxicology	101	446–450	16/08/20 18
3.	Praveen Solanki, Amit Kumar Rabha, Maitreyie Narayan, R. K. Srivastava	Relative Comparison for Phytoremediatio n Potential of Canna and Pistia for Wastewater Recycling	Environment and Ecology	36 (1A)	316— 320	14/12/20 17
4.	Praveen Solanki, Maitreyie Narayan and R. K. Srivastava	Effectiveness of domestic wastewater treatment using floating rafts a promising phyto- remedial approach: A review	Journal of Applied and Natural Science	9 (4)	1931 - 1942	10/09/20 17
5.	Praveen Solanki and Maitreyie Narayan	TEMPERATUR E AND EVAPOTRANS PIRATION (ET)	International Journal of Higher Education and Research	7(2)	236-257	2017

7.	Praveen Solanki, Shiv Singh Meena, Maitreyie Narayan , Hina Khatoon and Lakshmi Tewari	Denitrification Process as an Indicator of Soil Health	International Journal of Current Microbiology and Applied Sciences	6(5)	2645- 2657	10/05/20 17
6.	Praveen Solanki, Maitreyie Narayan , Shiv Singh Meena and R.K. Srivastava	Floating Raft Wastewater Treatment System: A Review	JOURNAL OF PURE AND APPLIED MICROBIOLOG Y DOI: Prefix 10.22207	11(2)	1113- 1116	04/05/20 17
11.	Maitreyie Narayan and Uma Melkania	Phytosociologica l studies of natural vegetation occurring in Nainital catchment Area, Uttarakhand, India	Ecology, Environment and Conservation	23 (4)	352-358	10/04/20 17
9.	Monika Chhimwal, Maitreyie Narayan , R. K. Srivastava	Electricity Generation from Microbial Fuel Cell by using Different Bio- waste as Substrate	Environment & Ecology	35 (4A)	2958— 2964	22/02/20 17
14.	Maitreyie Narayan , Susan Priyadarshani, A. S. Nain, Praveen Solanki, Akansha Gururani, Akansha Chauhan	Remote Sensing Based Estimates of Methane Emission from Summer Paddy Rice Cultivation in Udham Singh Nagar District in	Environment & Ecology	35 (4)101	2713— 2717	31/01/20 17

		Uttarakhand, India				
8.	Maitreyie Narayan , Dr. R.K. Srivastava	METAL HYPERACCUMULATION IN PLANTS: ADVANCE TECHNOLOGY FOR ENVIRONMENTAL CLEAN-UP -A REVIEW	International Journal of Science Technology and Management	5(3)	269-274	March, 2016
12.	Maitreyie Narayan	POLLUTION CONTROL TECHNIQUES IN AUTOMOBILES BIOFUELS – THE FUEL OF THE FUTURE ADVANCED TECHNOLOGY AND ALTERNATIVE FUEL TO CONTROL POLLUTION	International Journal of Advance Technology in Engineering and Science	4(5)	185-192	2016

a) Patents

Authors name	Title of the patent	Patent no (Granted or filed)	Year
1)Dr Anamika Singh 2)Ms. Arzoo 3)Dr. Hina Khatoon 4) Dr. Maitreyie Narayan 5)Ms. Anupam Ratn 6)Ms. Akanksha	A METHOD FOR ASSESSING THE EFFECTS OF RENEWABLE ENERGY SURGES ON COAL DEMAND	36/2023 (Granted)	2023

b) Books

Authors name	Title of the book	Publisher	ISBN	Year
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c) Book chapters

Authors name	Title of the book	Publisher	ISBN	Year
Nandan Singh and Maitreyie Narayan	Pollution in Freshwater: Impact and Prevention	Springer Nature	978-981-99-5018-8_15	2023
Nandan Singh, Ashish Tewari, Shruti Shah, Amit Mittal, Krishna Kumar Tamta and Maitreyie Narayan	Capsule maturation timing and seed germination in <i>Rhododendron arboreum</i> Smith at sub-alpine region of western Himalaya, Uttarakhand	Planta	6:1065-1072	2023
Maitreyie Narayan , Praveen Solanki and R.K. Srivastava	Handbook of Research on Green Technologies for Sustainable Management of Agriculture Resources	IGI Global	ISBN: 13: 978 179988 4347	2022
Praveen Solanki, Neha Khanna, ML Dotaniya, Maitreyie Narayan , Shiv Singh Meena, RK Srivastava and S Udaya kumar	Rhizomicrobiome Dynamics in Bioremediation	CRC Press	ISBN: 978036 782159 3	2021
Praveen Solanki, M.L. Dotaniya, Neha Khanna, S. Udayakumar, C.K. Dotaniya, Shiv Singh Meena, Maitreyie Narayan , R.K. Srivastava	New and Future Developments in Microbial Biotechnology and Bioengineering Microbes in Soil, Crop and Environmental Sustainability	Elsevier	ISBN: 978-0-12-818258-1	2020
Maitreyie Narayan , Praveen Solanki and Rajeev Kumar Srivastava	Sewage	Intech Open Limited	ISBN: 978-1-78923-477-0	2018
Praveen Solanki, Maitreyie Narayan , Shiv Singh Meena, R. K. Srivastava, M. L.	Phytobiont and Ecosystem Restitution	Springer Singapore	ISBN: 978-981-13-1186-4	2018

Dotaniya, and C. K. Dotaniya			eBook ISBN: 978- 981-13- 1187-1	
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d) Conference Publications/Proceedings

S. No.	Title of Paper	Title of Conference/Seminar	Year
1.	Treatment of Pulp and Paper Industry Effluent and Electricity Generation by Constructed Wetland Coupled with Microbial Fuel Cell (CW-MFC)	105 th Indian Science Congress	2018
2.	Innovative Constructed Wetland Integrated with Microbial Fuel Cell for Simultaneous Wastewater Treatment and Electricity Production	Wool Seminar, CoHS, GBPUAT, Pantnagar	2018
3.	Recently Emerged Technology: Constructed Wetland Coupled with Microbial Fuel Cells for Wastewater Treatment and Energy Production	ABCD 2017 Meerut International Conference	2017
4.	Treatment of Effluent from Pulp and Paper Industry by Constructed Wetland Coupled with Microbial Fuel Cell (CW-MFC) and Energy Production.	Uttarakhand State Science & Technology (UCOST)	2017
5.	Constructed Wetland Integrated Microbial Fuel Cell System: Latest Technology	National Conference on Progressive Sciences & Engineering, IT Gopeshwar	2017
6.	Toward Climate Change and Community-Based Adaptation-Mitigation Strategies in Nutritional Security in Hills	National Science Day Seminar “Science for social upliftment and empowerment” College of basic Sciences and Humanities, Pantnagar, Uttarakhand, INDIA.	2017
7.	Science for Social Upliftment and Empowerment	National Science Day Seminar “Science for social upliftment and	2017

		empowerment” College of basic Sciences and Humanities, Pantnagar, Uttarakhand, INDIA.	
8.	Utilization of Solid Waste for Production of Electricity through Microbial Fuel Cell	Uttarakhand State Science & Technology (UCOST)	2016
9.	Phytosociological Attributes of Different Plant Communities of Nainital Hills of Uttarakhand	“आधुनिक कृषि विज्ञान एवं प्रौद्योगिकी के समगतिशील विकास पर जलवायु परिवर्तन का प्रभाव”	2016
10.	The Phytosociological Analysis of Vegetation in Nainital	Uttarakhand State Science & Technology (UCOST)	2015

Projects

Title of the project	Funding agency	Amount (Rs)	Year
-	-	-	

Teaching details

Name of the course/paper	Department	University	Year
M. Sc. Environmental Science Environmental Chemistry	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Climate Change, Remote Sensing and GIS	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Environmental Toxicology and Stress	Forestry	Kumaun University	2021 - Present
M. Sc. Environmental Science Environmental Impact Assessment	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Environmental Biotechnology	Forestry	Kumaun University	2021 - Present
M. Sc. Environmental Science Waste Management and Treatment	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Energy Sources and Management	Forestry	Kumaun University	2022 - Present
M. Sc. Environmental Science Analytic Techniques	Forestry	Kumaun University	2022 - Present
B. Sc Forestry Forest Protection	Forestry	Kumaun University	2021-2022
Forestry - Vocational	Forestry	Kumaun	2022-2023

Nursery Technology		University	
Forestry - Vocational Watershed Management	Forestry	Kumaun University	2024 - Present
Forestry - Vocational Medicinal and Aromatic Plants	Forestry	Kumaun University	2024 - Present
Forestry - Vocational Non-Timber Forest Products	Forestry	Kumaun University	2024 - Present
Forestry – Minor Elective Ecotourism in Himalayan Region	Forestry	Kumaun University	2022-2023
Forestry – Minor Elective Remote Sensing and GIS	Forestry	Kumaun University	2022- Present
B. Sc. Forestry (Self-Financed) Biodiversity and Forest types	Forestry	Kumaun University	2024 - Present
B. Sc. Forestry (Self-Financed) Forest Genetics and Tree Improvement	Forestry	Kumaun University	2021 - Present
B. Sc. Forestry (Self-Financed) Forests and Tribals	Forestry	Kumaun University	2021-2023
B. Sc. Forestry (Self-Financed) Social Forestry	Forestry	Kumaun University	2021-2023
Post Graduate Diploma in Mountain Ecosystem and Climate Change Natural Resources	Forestry	Kumaun University	2020 - Present
Post Graduate Diploma in Mountain Ecosystem and Climate Change Climate Change: An overview	Forestry	Kumaun University	2020 - Present
Post Graduate Diploma in Mountain Ecosystem and Climate Change Forest Fire and Ecosystem restoration	Forestry	Kumaun University	2021-2023
Post Graduate Diploma in Mountain Ecosystem and Climate Change Role of women in environmental conservation	Forestry	Kumaun University	2021-2023

Professional Memberships

Organization	Position	Year
Indian Science Congress Association (ISCA), Kolkata, West Bengal	Lifetime Member	2016 - Present
National Environmental Science Academy (NESAs), New Delhi	Lifetime Member	2023 - Present

Environment & Social Development Association (ESDA)	Lifetime Member	2023 - Present
Agro Environmental Development Society (AEDS)	Lifetime Member	2024- Present

Honours and Awards

Award	Awarding Organization	Year
Best Scientist Award in Soil and Water Management	Faculty of Agriculture and Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS)	2024
First Prize for Oral Paper Presentation	Faculty of Agriculture and Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS)	2024
Green Technology Innovative Award	National Environmental Science Academy, New Delhi	2023
Young Scientist Award	Uttarakhand State Science and Technology (Ucost-2018) Congress During March, 2018 at Vigyan Dham, Dehradun, Uttarakhand, India.	2018
Second Prize for Poster Paper Presentation	(राष्ट्रीय संगोष्ठी "आधुनिक कृषि विज्ञान एवं प्रौद्योगिकी के समगतिशील विकास पर जलवायु परिवर्तन का प्रभाव" College of Agriculture, Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	2016

Conference Presentations

Title of presentation	Conference Name	Name of the institution	Year
Performance assessment of constructed wetland-microbial fuel cell for treatment of wastewater containing heavy metals and bioelectricity	International Conference on Current Approaches in Agricultural, Biological & Applied Sciences for	Faculty of Agriculture and Agroforestry, Kumaun University,	2024

generation	Sustainable Development	Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS)	
Innovative Constructed Wetland Integrated with Microbial Fuel Cell for Simultaneous Wastewater Treatment and Electricity Production	Wool Seminar, CoHS, GBPUAT, Pantnagar	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	2018
Treatment of Effluent from Pulp and Paper Industry by Constructed Wetland Coupled with Microbial Fuel Cell (CW-MFC) and Energy Production.	Uttarakhand State Science & Technology (UCOST)	UCOST	2017
Constructed Wetland Integrated Microbial Fuel Cell System: Latest Technology	National Conference on Progressive Sciences & Engineering, IT Gopeshwar	Institute of Technology, Gopeshwar	2017
Toward Climate Change and Community-Based Adaptation-Mitigation Strategies in Nutritional Security in Hills	National Science Day Seminar “Science for social upliftment and empowerment” College of basic Sciences and Humanities, Pantnagar, Uttarakhand, INDIA.	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	2017
Science for Social Upliftment and Empowerment	National Science Day Seminar “Science for social upliftment and empowerment” College of basic Sciences and Humanities, Pantnagar, Uttarakhand, INDIA.	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar (Uttarakhand)	2017
Utilization of Solid Waste for Production of Electricity through Microbial Fuel Cell	Uttarakhand State Science & Technology (UCOST)	UCOST	2016

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Signature of the faculty member