

FULL TIME RESEARCH SCHOLAR

The University School of Environment Management is currently providing a platform to research scholars working in different aspects of environmental fields like core environmental areas like water, air quality, climate change, biodiversity conservation, forestry, botany, natural resource management, wildlife science, geology, disaster management, wetland, environmental microbiology and GIS/remote sensing. USEM current having 60 PhD students working in various laboratories and field sites, bringing more than 75 research paper in a year from the school.



PRAMOD KUMAR has done M.Sc. in Environment Management from GGSIP University. He has 3 year work experience in the areas of EIA, Pollution load assessment, Air pollution monitoring and management. He is involved in research in the areas of Air pollution and Black carbon aerosols.

RESEARCH TOPIC: Study of Aerosol Optical properties and Fine Mode Fraction Variations Using MODIS data over an Urban Area of Delhi.

SUPERVISOR: Prof. N.C. Gupta



PRABHATH KUMAR TANWAR has done post-graduation in Environment Science from CCS University campus, Meerut and MBA in environmental management from IIEE New Delhi. He is currently working in the area of Green House Gas emissions, mitigation and climate change modeling. He was Fellow (JRF/SRF) in the UGC Major project.

RESEARCH TOPIC: Assessment of the potential of GHG Emission from Rice Level Cropping System of the Indo-Gangetic Region in India.

SUPERVISOR: Prof. N.C. Gupta



MAYA KUMARI, (M.Tech) specialized in GIS and Remote Sensing technology from Birla Institute of Technology, Mesra, Ranchi and master's degree in Environmental Science from Banaras Hindu University, Varanasi, India. Currently, she is working as Assistant Professor at Amity University Uttar Pradesh having 6 years of teaching and research experience in GIS and Remote Sensing. Her current research is focused on digital image processing, spatial data

modeling and environmental impact assessment.

RESEARCH TOPIC: Impact Assessment of Thermal Power Plants on Environment; A Case Study of Singrauli District, Madhya Pradesh

SUPERVISOR: Dr. Kiranmay Sarma



Nida Rizvi did her Masters in Environmental Sciences from M.J.P. Rohilkhand University, Bareilly. She also did Post graduate diploma in Environmental Management from Department of Botany, Bareilly College. During her masters she has worked on the ground water quality of Bareilly City. She is currently working on river hindon, which is an important River of western Uttar Pradesh and is an important tributary of River Yamuna.

RESEARCH TOPIC: Characterization of water quality of River Hindon by using different water quality indices and GIS technique

SUPERVISOR: Prof..Varun Joshi **CO SUPERVISOR:** Dr. Deeksha Katyal



PIPAS KUMAR, did his post graduation in Environment Management from Guru Gobind Singh Indraprastha University with graduation in Chemistry from Ranchi University, Ranchi. He has three years of consultancy experience across various domains of environment & planning. He is Indraprastha Research Fellow currently working in the field of Climate Change and Watershed Management. Major work areas include Hydrological modelling, application of remote sensing and GIS in watershed management.

RESEARCH TOPIC: Climate Change Impact Assessment on the Upper Watershed of River Subarnarekha in Jharkhand, India

SUPERVISOR: Prof. Varun Joshi



PRIYA BHALLA is currently working on her Ph.D thesis on ecotourism impact assessment at the University School of Environment Management, Guru Gobind Singh Indraprastha University. Her research concentrates on studying specific environmental and social indicators on field both spatially and temporally, to test for the presence of a significant impact due to ecotourism practice. Environmental destruction caused by visitation to ecologically fragile areas, its impacts and its future consequences are her area of concern besides enhancing

nature experience being a travel enthusiast. She has a special interest in nature-based tourism management and currently focusing on ecotourism practices at Binsar Wildlife Sanctuary, Uttarakhand, India.

RESEARCH TOPIC: Ecotourism Impact Assessment on Binsar Wildlife Sanctuary of Uttarakhand, India

SUPERVISOR: Prof. Prodyut Bhattacharya



RICHA BHARDWAJ graduated in Microbiology from Delhi University as university topper. She has been associated with organizations as National Centre of Disease Control (Ministry of Home Affairs), Red Cross Society (Ministry of Health and Family Welfare), and Samsung Electronics (Corporate Social Responsibility). She has been associated with several projects including KAP studies for Disasters in Delhi, Psycho-social impacts of quality of work life in Multinational corporations, Quality standards for various Bio-safety levels as an integral part of epidemiological significance. Her area of research is Environmental

microbiology wherein the work involves the water quality impact of River Yamuna on microbiological indicators.

RESEARCH TOPIC: A quantitative assessment of heavy metal resistance of fecal indicator bacteria in River Yamuna system in Delhi

SUPERVISOR: Prof. J.K. Garg **CO-SUPERVISOR:** Dr. Anshu Gupta



RIDHI SALUJA, DST-INSPIRE Research Fellow is pursuing Ph.D. in the field of Wetland Management with the focus on development of techniques using on remote sensing and GIS for Wetland Management in India. She is a Gold Medalist in Environment Management (2009-2011 Batch), Guru Gobind Singh Indraprastha University with Graduation in Botany from Miranda House, Delhi University. She has obtained training in Remote Sensing and GIS from National Remote Sensing Centre, Hyderabad. Major work areas include Wetland Structure and

Functions, Wetland Change Dynamics, Hyperspectral Remote sensing for Wetlands and Geo-informatics.

RESEARCH TOPIC: Wetland condition assessment using in-situ hyperspectral and orbital multispectral remote sensing data

SUPERVISOR: Prof. J.K. Garg



SEEMA DEVI, did her Master's in Environmental Sciences from Kurukshetra University. She is a UGC-Juiner Research Fellow, and is studying various factors impacting regeneration of selected Non-Timber Forest Product Species in Dry Deciduous forests of Central India. Seema Devi has presented an oral paper at Prestigious Indira Gandhi National Forest Academy, Dehradun.

RESEARCH TOPIC: A study on factors affecting in-situ and ex-situ regeneration of selected Non-Timber forest product species in dry deciduous forests of Central India

SUPERVISOR: Prof. Prodyut Bhattacharaya



SIMPY SINGH graduated in Zoology (H) from Delhi University and did her Masters in Environment Management from GGSIPU. She is working in the area of urban air pollution and its possible impacts on plant ecosystem. She is a UGC-Juiner Research Fellow.

RESEARCH TOPIC: Assessment of Aerosol Abatement capacity of selected plant species in Urban Green Spaces, Delhi

SUPERVISOR: Prof. N.C. Gupta **CO-SUPERVISOR:** Prof. Prodyut Bhattacharya



SHUBHI MALIK did her graduation in Botany and Zoology from Meerut University and completed my Master's degree in Environmental Science from Kurukshetra University. She has previously worked on a project on Assessment of Butterfly diversity in Auli, Uttarakhand. She worked as a Teaching Assistant in Deptt. of Environmental Sciences in Meerut University for two years. She is currently working on the Araneae group and her works includes finding out the diversity of spiders in Delhi and the morphometric variations among the different species.

RESEARCH TOPIC: Biosystematics studies on spiders (Arachnida: Araneae) of National Capital Territory of Delhi

SUPERVISOR: Dr. Sanjay Keshari Das



TAPASYA TOMER, did her Masters in Environmental Chemistry from Jiwaji University, Gwalior. She has worked as an Assistant Professor in MGM college, Noida and Trident Group of Institutions, Ghaziabad. Her current work includes field visits of selected study sites in Delhi for collection of groundwater samples to be analyzed.

RESEARCH TOPIC: A predictive modeling approach to assess the groundwater pollution vulnerability in integration with water quality index (WQI) using GIS technique in Delhi region

SUPERVISOR: Dr. Varun Joshi **CO-SUPERVISOR:** Dr. Deeksha Katyal

KULDEEP SRIVASTAVA

RESEARCH TOPIC: Study of Climate Change using Lichen as Natural Indicator in the State of Uttarakhand

SUPERVISOR: Prof. Prodyut Bhattacharya

PRABIR KUMAR DASH

RESEARCH TOPIC: Estimation and Comparative Analysis of Energy output from different Photo-Voltaic Modules in various Indian Climates

SUPERVISOR: Prof. N.C.Gupta



ANJUM SINGHAL graduated in Environmental Sciences from Ramjas College, Delhi University. She completed her Masters in Environment Management from Guru Gobind Singh Indraprastha University. Her dissertation was on 'Consideration of access and egress trips in carbon footprint of public transport: case study of Delhi' from Central Road Research Institute (CRRI), Delhi. She worked as trainee in Department of Environment, Government of NCT of Delhi and was associated in various matters related to waste management, renewable energy matters & Climate Change Issues etc. Her current research is focused on Environment Microbiology and Bioremediation

RESEARCH TOPIC: Green synthesis of Nano particles, their characterisation and applicability: An Environmentally Benign Approach

SUPERVISOR: Dr. Anshu Gupta



AYESHA KHOSLA completed her graduation in Zoology from Gargi College, Delhi University and did her Masters in Environment Management (Gold medalist) from Guru Gobind Singh Indraprastha University, Delhi. She has undertaken professional training in various resource management projects at Alcatel-Lucent, Bangalore, India-China Economic and Cultural Council, Department of Environment, New Delhi and Indian Environment Law Offices. Her area of interest is Government Environment Policy and its Implementation for management of natural resources. She is a DST-Inspire Research Fellow and is currently studying the Status of the Forest Rights Act, 2006 in Tripura. She has also participated in 18

Seminar/Workshops/conferences and was also awarded Best Poster Presentation at “XIX Commonwealth Forestry Conference 2017”. At FRI, Dehradun, India, 3rd to 7th April 2017.

RESEARCH TOPIC: Study on Governance Practices of Forest Rights Act in the State of Tripura

SUPERVISOR: Prof. Prodyut Bhattacharya



GAJENDRA SINGH, did his graduation in Zoology, and post-graduation in Biotechnology from JNV University, Jodhpur, Rajasthan. Currently his work is related to the ecological and conservational study of domestic and wild ungulates of Thar Desert of Rajasthan.

RESEARCH TOPIC: Taxonomy and habitat assessment of bat fauna in Thar Desert of Rajasthan, India

SUPERVISOR: Dr. Sumit Dookia



MANDEEP KAUR, graduated in Botany from SGTB Khalsa College, Delhi University and did her Masters in Biodiversity & Conservation from University school of Environment Management, GGSIPU, Delhi. Her previous work includes a study on the spider diversity of Keoladeo National park, Bharatpur, Rajasthan and a six month study on the ecology of Najafgarh jheel in contemporary urban scenario. She is currently pursuing her PhD in biodiversity conservation

RESEARCH TOPIC: An ecosystem approach to study biodiversity of Talchhapar wildlife Sanctuary with assessment of threats and ecotourism potential

SUPERVISOR: Dr. Sanjay Keshari Das **CO-SUPERVISOR:** Dr. Kiranmay Sarma



MANISH JOSHI, did his M.Phil. & B.Ed. from Maharaja Ganga Singh University, Bikaner, Rajasthan. During his graduation he worked with National Adventure Foundation (Rajasthan & Gujarat Chapter). He also worked as TGT (science) & Rock climbing instructor prior to joining GGSIP University. He is currently working as Project fellow in UGC major research project & pursuing PhD under supervision of Dr. Sanjay Keshari Das & Dr. Kiranmay Sarma.

RESEARCH TOPIC: Ecology of desert monitor *Varanus griseus konieczyi* Mertens in Thar Desert of Rajasthan

SUPERVISOR: Dr. Sanjay Keshari Das **CO-SUPERVISOR:** Dr. Kiranmay Sarma



Rita Singh

MONALISA PAUL, completed her graduation and post-graduation in Zoology from Maitrey College and Miranda House, University of Delhi respectively. She qualified CSIR-NET (lectureship). She is an IPRF Research Fellow. She is pursuing her research in the field of Biodiversity Conservation with specific focus on Lepidoptera.

RESEARCH TOPIC: Studies on Biotic interactions of butterflies and moths in urban landscapes of NCT of Delhi

SUPERVISOR: Dr. Sanjay Kesari Das **CO-SUPERVISOR :** Prof.



RAJLAKSHMI MISHRA, a graduate in Life Sciences from Sri Venkateswara College, University of Delhi, did her Masters in Biodiversity and Conservation from GGS Indraprastha University. She is an IPRF-JRF, her research focuses on the ecology and taxonomy of bats. Wildlife particularly mammalian biology comprises her prime area of interest and she has intensive field experience of working on behavioural ecology of common fox and the Gangetic dolphin in Rajasthan and Assam respectively. Presently she is working on documentation of chiropteran (bats) species found in Delhi-NCR along with studying the overall impact of urbanization on them. She has presented her work at many conferences and seminars and was awarded Best Oral Presentation at 3rd International Southeast Asian Bat Conference organized by University Malaysia Sarawak, Kuching, Sarawak, Malaysia, 14-17 August 2015

RESEARCH TOPIC: Diversity and Conservation Status of Bats in Urban Greenspaces of Govt. of N.C.T. of Delhi

SUPERVISORS: Dr. Sumit Dookia **CO-SUPERVISOR:** Prof. Prodyut Bhattacharya



VIGIL WILSON, did his graduation from Jai Narayan Vyas University Jodhpur in basic sciences, and his post-graduation in biotechnology. He is currently working on the ecological and habitat study on small canids of Thar Desert, Rajasthan.

RESEARCH TOPIC: "Ecology of Desert Fox (*Vulpes vulpes pusilla*) in Thar Desert of Rajasthan, India

SUPERVISOR: Dr. Sumit Dookia

SEEMA JOSHI

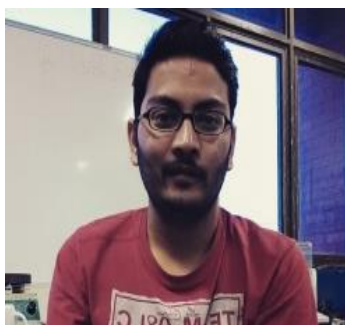
RESEARCH TOPIC: Leveraging Geo-Spatial Technologies for Disaster Risk Reduction and Building resilient communities in Mandakini Valley, Uttarakhand

SUPERVISOR: Prof. J.K.Garg

S.L. NIANGTHIANHOI

RESEARCH TOPIC: Impact of shifting cultivation on the avifauna in Manipur, India

SUPERVISOR: Dr. Sumit Dookia



SATISH PRASAD'S research is directed at understanding, managing and coping with wetlands degradation and management. Understanding variability in wetlands environment requires examination of natural processes that drive and control functioning of an ecosystem, and human interaction that affects its processes. To cope with variability require methods of risk assessment and forecast system. In his research area he emphasize on employing a combination of observation-both in-situ and remotely sensed and numerical modeling techniques. Major research Interest: Carbon sequestration, Wetlands management.

SUPERVISOR: Prof. J.K. Garg



JAYITA BISWAS pursued her Bachelor's Degree in Botany (hons.) from Delhi University, followed by Masters in Biodiversity and Conservation from Guru Gobind Singh Indraprastha University, Delhi. During her Masters Dissertation she studied the Diversity of Butterflies in Green Landscapes of Delhi. Her research interests include Conservation and reproductive biology, ecology, taxonomy and morphology. Hobbies include wildlife photography, reading, nature trails.

RESEARCH TOPIC: Systematics and Ethnoecology of the Genus Ephedra L. in Ladakh (Jammu & Kashmir), India

SUPERVISOR: Prof. Rita Singh

BABITA SINGH

RESREARCH TOPIC: Biochemical and Biomagnetic Monitoring of Atmospheric Particulates in Delhi using Roadside Trees

SUPERVISOR: Prof. Anubha Kaushik

GAYATRI SEHRAWAT

RESREARCH TOPIC: Phytoremediation of metal contaminated soils and enhancement of phytoextraction through bioaugmentation

SUPERVISOR : Prof. Anubha Kaushik **CO-SUPERVISOR** : Prof. Rita Singh

PRATYANSHA SINGH

RESREARCH TOPIC: A study on Captivity and Management of Manipur Brow-antlered Deer (*Rucervus eldii eldii*) in National Zoological Park, New Delhi

SUPERVISOR: Prof. Amarjeet Kaur

PRIYANKA KUMARI

RESREARCH TOPIC: Study of Solid Waste Management at Ghazipur Landfill Site with respect of leachate and heavy metal removal using Ion Exchange Process

SUPERVISOR Prof. N.C.Gupta **CO-SUPERVISOR** Prof. Amarjeet Kaur

YOGITA PRABHAKAR

RESREARCH TOPIC: Bioremedation of dye containing wastewater using an alkaliphillic bacterium *Nesterenkonia sp.*

SUPERVISOR Prof. Anubha Kaushik **CO-SUPERVISOR:** Dr. Anshu Gupta



ANAND is pursuing Ph.D scholar under the supervision of Prof. Prodyut Bhattacharya in Guru Gobind Singh Indraprastha University, Dwarka. He has completed his M.Sc. in Natural Resource Management from Guru Gobind Singh Indraprastha University. For the completion of his master's degree, he did summer training from Delhi Parks & Garden Society, Ministry of Environment, Forest & Climate Change, New Delhi and dissertation from CII- Sohrabji Green Business Centre, Hyderabad.

RESEARCH TOPIC: Assessment of Ecological Services provided by Urban Green Spaces in New Delhi

SUPERVISOR: Prof. Prodyut Bhattacharya



ARADHANA SINGH'S study involves a new technology which performs the dual function of wastewater treatment and electricity production called Microbial fuel cell.

RESEARCH TOPIC: Optimizing Microbial Fuel Cell performance for simultaneous energy generation and wastewater treatment

SUPERVISOR: Prof. Anubha kaushik



CHINDU CHANDRAN has completed her M.Sc. in Natural Resource Management from Guru Gobind Singh Indraprastha University and graduation in Life Sciences from University of Delhi. During internship and after completion of her M.Sc. she have carried out environmental and social audits for many resorts, lodges located in the vicinity of National Reserve Forest (Bandhavgarh, Ranthambore, Keoladeo, Chambal, Kanha, Corbett,

etc.) on behalf of TOFT, UK and as an independent Auditor from Sycom Projects Consultants Private Limited(India).

RESEARCH TOPIC: Assessment of Ecotourism Sustainable Practices in Munnar, Kerala : Multifactorial Analysis of the Destination.

SUPERVISOR: Prof. Prodyut Bhattacharya



PRIYANKA VERMA completed B.Sc. (Hons.) Botany from Shivaji College Delhi University, New Delhi, and did M.Sc. Environmental Science from Amity University. During masters, her dissertation was on invasiveness of *Lantana camara* L. from Department of Environmental Studies, Delhi University. Currently, her Ph.D. research focuses on the nutrient dynamics of wetland.

RESEARCH TOPIC: Spatial and Temporal Assessment of Reactive Nitrogen in Urban Wetland System

SUPERVISOR : Dr. Pamposh



RAHUL SHARMA completed his M.Sc. in Biodiversity & Conservation from Guru Gobind Singh Indraprastha University and did his summer training from Lichenology Lab, CSIR-NBRI, Lucknow, U.P. and dissertation from Guru Gobind Singh Indraprastha University. He has keen interest in bird watching, photography, reading and exploring nature.

RESEARCH TOPIC: Reproductive Ecology of Eastern Ghats Cycads in Odisha, India

SUPERVISOR: Prof. Rita Singh

SRISHTI SOLANKI is currently pursuing PhD (Environmental Sciences) under the guidance of Prof. J.K. Garg, Professor, USEM, GGSIPU, Delhi. During her Masters in Biodiversity and Conservation from GGSIP University, she carried out habitat suitability analysis for Great Indian Bustard in Rajasthan using geoinformatics. Further in 2013, during her dissertation, she did temporal study of structural components of two Ramsar sites in India. In 2014, she brought out two publications: Wings of Dwarka- A Field Guide and An Introduction to the Delhi Ridge, Department of Forests and Wildlife, Govt. of NCT of Delhi, as a co-author, during her work tenure as Project Associate (Land Management) at Delhi Forest Department. Srishti is also a birding enthusiast and enjoys photography.

RESEARCH TOPIC: Landscape Patterns and Urban Heat Island Effect Analysis in a Metropolitan Region

SUPERVISOR: Prof. J.K. Garg



SUNITA BISHT completed her M.Sc. in Biodiversity & Conservation from Guru Gobind Singh Indraprastha University and did summer training from Salim Ali Centre of Ornithology and Natural History, Coimbatore, Tamil Nadu and dissertation on “Urban Biodiversity” from Guru Gobind Singh Indraprastha University.

RESEARCH TOPIC: Systematics of Indian Taxaceae

SUPERVISOR: Prof. Rita Singh



UTKARSHA PATHAK

RESEARCH TOPIC: Effects of exposure to indoor air pollution from biomass fuel smoke on pulmonary health in women and children of rural/urban Indian villages

SUPERVISOR: Prof. NC Gupta **CO-SUPERVISOR:** Prof. JC Suri ,



VINOD KUMAR is working on Radiosotope Removal Efficiency of a combination of Titanate Nanotubes and Polyamide Reverse Osmosis Membranes.

RESEARCH TOPIC: Studies on Radiosotope Removal Efficiency of a combination of Titanate Nanotubes and Polyamide Reverse Osmosis Membranes

SUPERVISOR: Dr. Deeksha Katyal

SHIPRA TYAGI

RESEARCH TOPIC: Assessment and spatial mapping of ground water quality in Ghaziabad district of Uttar Pradesh, India

SUPERVISOR: Dr. Kiranmay Sarma

SANDHYA BHAT

RESEARCH TOPIC: Effect of Hydrological Regime on the composition and functioning of bacterial communities in freshwater wetland sediments

SUPERVISOR: Dr. Pamposh



PRERNA SHARMA

The study encompasses comparison of water quality parameters and ecosystem properties in a clean stretch of upper Ganga in Devprayag where the stressors are minimum and a polluted stretch of middle Ganga in Kanpur and Varanasi with an aim to assess the changes occurring due to such stressors in some important ecological services provided by the river. The research also includes the investigation of land use land cover changes in the study site over the years.

SUPERVISOR: Prof. Anubha Kaushik

RESEARCH TOPIC: Assessment of Ecosystem services of River Ganga in relation to pollution and land use changes as stressors using ecological and geo-spatial approach

KARUNA NARAYAN POHEKAR

RESEARCH TOPIC: Construction and Assessment of Two-Stage Hybrid Wetland System for Domestic Wastewater Treatment in Guru Gobind Singh Indraprastha University, Dwarka, Delhi

SUPERVISOR: Dr. Neetu Rani



ANCHAL GARG'S study will be supportive in identification and determination of ambient air quality status of Delhi with respect to VOCs, PAHs and PM. By doing this study, hazard and risks associated. The outcomes of study will facilitate policy makers in policy formulation and policy implementation with reference to air pollution control and also help in awareness programs for health and the prevention of occupational diseases.

RESEARCH TOPIC: Study of Polycyclic Aromatic Hydrocarbons, Volatile Organic Compounds and Particulate Matter in urban atmosphere of Delhi and their associated Health Risks

SUPERVISOR: Prof. N.C. Gupta

KUSH KUMAR'S research domain includes delineation of vulnerable landslide zones using various geo-environmental parameters and geo-spatial technology to suggest the remedial measures and treatment for slope stabilisation from Byasi to Devprayag along the National Highway 58, Uttarakhand.

RESEARCH TOPIC: Geo-environmental studies along the National Highway 58 from Byasi to Devprayag with special reference to landslides.

SUPERVISOR: Prof. Varun Joshi

SANGITA SINGH

RESEARCH TOPIC: Assessment of Soil Characteristics Using Digital Soil Mapping Approach And Geospatial Technology In Nct Of Delhi

SUPERVISOR: Dr. Kiranmay Sarma

SATISH KUMAR

RESEARCH TOPIC: Risk assessment and evaluation of the tropical wetland ecosystem from invasive macrophytes in Okhla Bird Sanctuary and Surajpur Wetland, Delhi – NCR

SUPERVISOR: Dr. Tuisem Shimrah



SWATI VATSAYAN

RESEARCH TOPIC: Assessment and Monitoring of Regional Ecosystem Integrity of Uttarakhand Himalayas as an aid to Strategic Restoration using Geospatial Tools

SUPERVISOR: Prof. J.K.Garg **CO-SUPERVISOR:** Prof. Varun Joshi

SAKSHI NANGIA

RESEARCH TOPIC: Synthesis, Characterization and Assessment of Chitosan based Hydrogel composites for Environmental Applications

SUPERVISOR: Dr. Deeksha Katyal

PRASHANSA TAMTA

RESEARCH TOPIC: Development of advance constructed wetland incorporated microbial fuel cell technology for wastewater treatment and electricity generation

SUPERVISOR: Dr. Neetu Rani

BALRAM BHARDWAJ

RESEARCH TOPIC: Bioprocess Optimization and Development of Digester to Product Methane Enriched Biogas and Fertiliser from Waste Biomass

SUPERVISOR: Prof. Anubha kaushik

VINITI NAGAR

RESEARCH TOPIC: Selection of apt microbial conglomerate of authochthonous bacteria for the effectual treatment of municpal sewage of Delhi

SUPERVISOR: Prof. Amarjeet Kaur