CURRICULUM VITAE

NUPUR RAGHAV
DATE OF BIRTH-06-FEB-1990
SEX- FEMALE
NATIONALITY- INDIAN
MARITAL STATUS- MARRIED
E -MAIL ID- nupurraghav690@gmail.com
Mob. No.- 07017110839

TEACHING ASSOCIATE
COLLEGE OF BIOTECHNOLOGY
DUVASU
MATHURA- 281001

RESEARCH INTEREST

BIOREMEDIATION OF WASTE WATER, PLANT-MICROBE INTERACTION, MICROBIAL BIOTECHNOLOGY, ENVIRONMENTAL MICROBIOLOGY

ACADEMIC QUALIFICATION

Examination	Board/University	Institution	Year of passing	Percentage
Ph.D.	Deemed University	Dayalbagh Educational Institute , Agra	January 2020	-
M.Phil (Integrated)	Deemed University	Dayalbagh Educational Institute , Agra	2012	95%
M.Sc	Deemed University	Dayalbagh Educational Institute , Agra	2012	86%
B.Sc	Dr. B.R. Ambedkar University, Agra	T.R Girls College Aligarh	2010	70%
12^{th}	C.B.S.E	Rajni Public School Dibai	2007	71%
10^{th}	C.B.S.E	Jaypee Vidya Mandir Annopshahar	2005	70%

RESEARCH WORK

1. M.SC. DISSERTATION (2011) ON THE TOPIC "**BIOREMEDIATION OF WASTE WATER USING NANOTECHNOLOGY"**

2. M.PHIL. DISSERTATION (2012) ON THE TOPIC **"BIOREMEDIATION OF THE YAMUNA WATER USING EM TECHNOLOGY (BACTERIAL CONSORTIUM) AND ITS IMPACT ON SEED GERMINATION *IN VITRO* "**
3. Ph.D. (2020) ON THE TOPIC **"BIOREMEDIATION OF YAMUNA RIVER WATER AT AGRA WITH SPECIAL REFERENCE TO HEAVY METALS AND PESTICIDES USING EM TECHNOLOGY"**

RESEARCH EXPERIENCE

Worked as Senior Research Fellow under UGC Funded Research Project entitled "A study on biochemical characteristics of aerosols at an urban site of Indo-Gangetic Plain" [letter no. F. No. -41-319/2012 (SR)] from 01-Dec-2012 to 30-June-2015 under Dr. Ranjit Kumar, Department of Chemistry, Dayalbagh Educational Institute (Deemed University) Agra.

TEACHING EXPERIENCE

I have taught Microbiology and Botany (Theory and Practical) to Graduate and Post graduate students during Ph.D. tenure. I have been teaching here in College of Biotechnology as Teaching Associate since 2021.

OTHER WORKING EXPERIENCES (College of Biotechnology, DUVASU)

Establish a incubator cum demonstration unit for "Bioremediation of waste water using EM technology".
Lab incharge of Microbiology Laboratory since 2021.
Organize the industrial visit of B.Sc 3rd year students to Wave Distilleries and Breweries Pvt. Ltd. Aligarh since 2021.
I have been a member of organizing committee of 8th International conference on WBBIAGT-2023 organized by DUVASU and Indian society of Genetics, Agra.

Duties performed-

Internal examiner of credit courses (Industrial Microbiology, Microbiology, Plant and Animal Tissue culture, Basic Fermentation techniques and Food and Industrial Biotechnology).
Course incharge of several subjects (Industrial Microbiology, Microbiology, Plant and Animal Tissue culture and Basic Fermentation techniques, Food and Industrial Biotechnology).
Class Advisor of B.Sc. 2nd year students.

PUBLICATIONS: MANUSCRIPT

- J.N Shrivastava, Nupur Raghav (2012) "Bioremediation of Yamuna water using Effective microbes (EM) technology and Nanotechnology" in INTERNATIONAL JOURNAL "BIOREMEDIATION AND BIODEGRADATION".
- Nupur Raghav, J.N Shrivastava (2014) Remediation of Yamuna River water in city of Taj by bacterial consortium. INTERNATIONAL JOURNAL OF PURE AND APPLIED BIOSCIENCES. 2(2) 249-253.
- Nupur Raghav, Sugandha Verma and J.N. Srivastava (2015) Stimulatory Effect of Bacteriologically Treated Yamuna River Water on Plant Growth *In vitro.* INTERNATIONAL JOURNAL OF PURE & APPLIED BIOSCIENCE 3 (2): 256-263.
- Nupur Raghav and J.N. Srivastava (2015) Bacterial Remediation of Yamuna River water and its impact on seed germination in vitro. JOURNAL OF AGROECOLOGY AND NATURAL RESOURCE MANAGEMENT. 2(2): 121-124.

- Nupur Raghav, J.N. Srivastava, G.P. Satsangi and Ranjit Kumar (2015) Investigation on Abundance of Microbial Communities in Ambient Air over Urban site in Semi arid Region. JOURNAL OF ENERGY RESEARCH AND ENVIRONMENTAL TECHNOLOGY. 2(5): 375-378.
- Nupur Raghav and Shrivastava, J.N. (2016) Toxic Pollution in River Water and Bacterial Remediation: An Overview. INTERNATIONAL JOURNAL OF CURRENT MICROBIOLOGY AND APPLIED SCIENCES 5(4): 244-266.
- Nupur Raghav, Mamta, J.N. Shrivastava, G.P. Satsangi, Ranjit Kumar (2020) Enumeration and characterization of airborne microbial communities in an outdoor environment of the city of Taj, India. URBAN CLIMATE. 32:100596 DOI: https://doi.org/10.1016/J.UCLIM.2020.100596
- Nupur Raghav, Sujata Shekhar, Sanjay Yadav (2022) A Study on Water Quality Index of Polluted Water of River Yamuna at city of Taj. INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS. 10: 279-291.
- Nupur Raghav, Shweta Sharma, Parul Singh, Sanjay Yadav, Rajesh Nigam (2022). A comprehensive case review on a microbial remediation of heavy metals and pesticides in the Yamuna River. The Applied Biology and Chemistry Journal 3(1):11-33. https://doi.org/10.52679/tabcj.2022.0003.
- Nupur Raghav, Faizan ul Haque Nagrami and Ranjit Kumar (2023) Study on Airborne Microbial flora at urban sites of Indo-Gangetic Plain. Journal of Emerging Technologies and Innovative Research (JETIR) 10(6): c291- c299. http://doi.one/10.1729/Journal.34623
- Nupur Raghav, Uma Sharma, Shweta Sharma, Parul Singh, Akshita Tiwari, Faizan Ul Haque Nagrami, Ranjit Kumar (2023) Monitoring Enumeration and Characterization of Airborne Microbial Communities in an Outdoor Environment 11(6): 1391-1399. https://doi.org/10.56025/IJARESM.2023.116231164

BOOK CHAPTERS

- Nupur Raghav, Parul Singh, Akshita Tiwari, Shweta Sharma (2023) Application of Synthetic Biology for bioremediation of PAHs and PCBs. The Climate Crisis, Jai Prakash Nath Publication, 139-150.
- Nupur Raghav, Rajesh Nigam, Shivangi Mathur, Deeksha Singh, and Rajiv Ranjan (2022) Microbial Degradation of Wastewater, Recent Trends in Wastewater Treatment by Springer, 145-170

SCIENTIFIC WORKSHOP/TRAINING/CONFERENCES

- Presented research article entitled "Bacterial Remediation of Yamuna River water and its impact on seed germination in vitro" in International conference AFESA- 2015 organized by Krishi Sanskriti in Jawahar Lal Nehru University New Delhi on 9th to 10th May, 2015.
- Presented research article entitled "Investigation on Abundance of Microbial Communities in Ambient Air over Urban site in Semiarid Region" in International conference AFESA- 2015 organized by Krishi Sanskriti in Jawahar Lal Nehru University New Delhi on 9th to 10th May, 2015.
- Presented research article entitled "Synergistic effect of bacterial consortium in degrading pollutants from Yamuna river water" organized by Indian Botanical Society in Rajasthan University, Jaipur during 26th October to 28th October 2015.
- Attended two days national seminar on the topic entitled "Plants and microbes in Human Welfare"organized by Department of Botany, Faculty of Science, Dayalbagh Educational Institute (Deemed University) Dayalbagh, Agra during 28th and 29th March, 2016.
- Presented research article entitled "Remediation of Yamuna River water using EM technology: A sustainable Approach" in National Conference on Biotechnology: Resource Management for Sustainable

Nature in 21st Century organized by Indian Society of Genetics, Biotechnology Research and Development, Agra during 22-23 April, 2017.

- Presented research article entitled "Study on Yamuna River water pollution of Agra" in International conference on Innovative Technologies towards Energy, Environment, Food and sustainable Agriculture organized by Raja Balwant Singh Engineering Technical Campus Bichpuri (Agra) India during 26-28 February, 2018.

- Presented research article entitled "Integrating System Dynamics Modelling to Explore the role of EM technology for Sustainable Development with respect to water resources" in National Conference on Climate Change: Sustainable Agriculture and Environment organized by Department of Geography, Aligarh Muslim University (AMU), Aligarh during 17-18 March, 2018.
- Participated in research fair-2019@dei organised by Dayalbagh Educational Institute (Deemed university) Dayalbagh, Agra on 19th January, 2019.
- Participated in UGC-SAP sponsored IV seminar cum webinar "Frontiers Areas of Plant, Microbe and Environment research" organised by Dayalbagh Educational Institute (Deemed university) Dayalbagh, Agra on 24th March, 2022.

SPECIALIZED SKILLS:
SOFT SKILLS

Scientific Project Proposal writing for funding agency (DBT, DST, UGC), Lab management, Mentoring Post Graduate Students, Organizing laboratory practical's for students, Working with Statistical tools, SPSS software, Microsoft Office

TECHNICAL SKILLS

Media preparation for Bacterial and Fungal Cultures, Serial Dilution Method for Bacterial Cultures, Pouring, Plugging, Slant preparation & Streaking on plates, Sub Culturing of Microbes, Isolation and Culturing of microbes from Soil and water Sample (Through Serial Dilution Method), Isolation and Culturing of microbes from Air (Through PM10 and PM2.5), Biochemical Test for Screening of Microbes, Identification of bacterial culture through BD-BBL Crystal Autoreader technique, Formulation of Effective Microorganisms solution for treatment of waste water and determination of various physico-chemical parameters including heavy metals and pesticides from waste water, Antibiotics Sensitivity Test, Revival of culture.

CAREER OBJECTIVE:

To achieve success in technological services through innovative strategies, technological expertise, to work in an organization that provides a competitive edge to sharpen my skills and tocontribute effectively for growth of the organization.

BRIEF OVERVIEW

- Hardworking and dedicated with good working skills.
- A dynamic go-better with abilities to accept challenges and deliver results.
- An effective team member with troubleshooting and problem solving skills.

STRENGTHS

- Organizing skills matched with the ability to manage stress, time, and people effectively.
- An individual who is enthusiastic, hardworking, sincere to work and willing to acceptchallenges.

I declare that the foregoing information is correct and complete to the best of my knowledge andbelief and nothing has been concealed or distorted.

(Dr. Nupur Raghav)