

VARTIKA NISHAD

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CAREER OBJECTIVE

To build a long-term profession as a teacher that will offer endless opportunities for career growth and to keep up with cutting-edge educational technologies

ACADEMIC PROFILE

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2021	9.25
Specialization: Environmental Science and Engineering				
Graduation	Amity University	Amity Institute of Biotechnology	2018	8.67
Specialization: Biotechnology				
Intermediate	ISC	St' Mary's Convent High School	2010	75.33%
Matriculation	ICSE	St' Mary's Convent High School	2008	80.00%

ACADEMIC CREDENTIALS AND ACHIVEMENTS

- Scored **68th** rank in **Joint CSIR Test for JRF and eligibility for Lectureship (NET) Exam (Dec-2018)**
- Qualified the **Graduate Aptitude Test in Engineering (GATE-2019)** in Biotechnology with **98.6** percentile
- **Silver Medalist** in B.Tech-Biotechnology (2014-2018) among a batch of 44 students
- **Merit Scholarship** in B.tech-Biotechnology for the outstanding academic performance for the sessions 2015-2018

MAJOR PROJECTS AND SEMINARS

M.Tech Project: Development of Air Pollution Control System for Bioaerosols

Guide: Prof. Manoranjan Sahu, ESED, IIT Bombay

[Feb'20-June'21]

- Investigated the impact of various parameters on microbial inactivation such as air velocity, relative humidity (RH) and ultraviolet (UV) intensity
- Developed a mathematical model to determine the microbial inactivation rate under different conditions such as UVGI exposure and in the presence of photocatalyst

M.Tech Seminar: Membrane Distillation for Desalination and Water Treatment

Guide: Prof. Swatantra Pratap Singh, ESED, IIT Bombay

[Aug'19-Nov'19]

- Study of the membrane distillation technology, principle, operating parameters and mechanism
- Study of the different configurations of membrane distillation system for water treatment and its applications

B.Tech Project: Biochemical Analysis of Chickpea protection against *Fusarium oxysporum* f. sp. ciceri afforded by *Trichoderma harzianum*

Guide: Prof. Ved Ratan, CSAUAT, Kanpur

[Mar'18-Apr'18]

B.Tech Training: Advance Immunological Techniques

Guide: Er. Madhulika Singh, CytoGene, Lucknow

[May'17-June'17]

- To understand and learn the importance and wide use of techniques in immunology and in order to efficiently complete this project, experiments were performed on the basis of protocols given for specific experiments

B.Tech Training: In-silico gene identification of pesticides degrading genes in bacteria

Guide: Prof. Prachi Srivastava, Amity University, Lucknow

[1-Jul'16-10-Jul'16]

- Identified & searched pesticides degrading microbial genes & retrieving of their FASTA sequence through NCBI database and performed Blastn for pesticides degradable genes against the genome of various species

ONLINE CERTIFICATIONS (2020-21)

Programming for Everybody (Getting Started with Python), Charles Severance, University of Michigan

- Understand Python syntax and semantics and use of variables to store, retrieve and calculate information

Python Data Structures, Dr. Charles Severance, University of Michigan

- Understand data structures such as **lists, dictionaries and tuples** to perform increasingly complex data analysis

Excel Skills for Business: Essentials, Nicky Bull, Dr Prashan S. M. Karunaratne, A/Professor Yvonne Breyer

- Learned the skills needed to validate data and prevent errors in spreadsheets, and apply advanced formulas

MATLAB Onramp, MathWorks | Training Services

TECHNICAL SKILLS

Programing Language: C/C++, PYTHON, MS Excel

Design Courses: Air Pollution Control Technologies

Laboratory Courses: Recombinant DNA Technology | Immunotechnology | Biochemistry | Molecular Biology

AREAS OF INTEREST

Biostatistics | Biochemistry | Immunology | Cell Biology | Microbiology | Animal Biotechnology | Plant Biotechnology | Molecular Biology | Recombinant DNA Technology | Environmental Biotechnology | Downstream Processing | Enzymology | Basic Food Biotechnology | Essentials of Genomics & Proteomics | Genetics

POSITION OF RESPONSIBILITY

Teaching Assistant, Environmental Chemistry (ES631) & Fundamentals of Environmental Chemistry (ES202)

Guide: Prof. Harish Phuleria & Prof. Tabish Nawaz

[Aug '20-Dec '20]

Teaching Assistant, Environmental Studies: Science and Engineering (ES200)

Guide: Prof. Amritanshu Srivastava, Prof. Manoranjan Sahu & Prof. Vamsi Botlaguduru

[Jan '21- June '21]

- Responsible for coordination with the course instructor for the smooth running of classes and class activities
- Responsible for maintaining class records like attendance, evaluating answer-scripts, doubt clearing sessions

EXTRACURRICULAR ACTIVITIES

- Participated in chess competition for representing ESED organized by PGGC *[Jan '20]*
- Lifetime member of **Environmental Science and Engineering Association (ESEA)**, IIT Bombay *[2019]*
- Multilingual: English, Hindi, German (Elementary)
- Hobbies: Craft making, Playing chess, Badminton, Singing, Drawing

DECLARATION

I hereby **declare** that all the information furnished above is true to the best of my belief.

Place: Kanpur

Vartika Nishad