

## Ms. Vaishnavi Namdev Arekar

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### ❖ Objective:

To do work with full determination & dedication to achieve organizational as well as personal goals, which provides me job satisfaction & self- development.

### ❖ Academic Qualification:

EXAM / DEGREE	YEAR	NAME OF INSTITUTE	UNIVERSITY	PERCENTAGE
M.Sc in Biotechnology	2020	Shivaji University, Kolhapur	Shivaji University, Kolhapur	71.58 (First class)
B.Sc in Biotechnology	2018	Vivekanand College, Kolhapur	Shivaji University, Kolhapur	77.4% (First class with distinction)
HSC	2015	Maharashtra Highschool & Jr College, Kolhapur	State Board of Maharashtra	62.77% (First class)
SSC	2013	Smt. A. N. Sardesai Highschool, Kolhapur	State Board of Maharashtra	86.40%(First class with distinction)

### ❖ Experience:

- Worked as an Assistant Professor in Department of Biotechnology (Entire) at Karmveer Bhaurao Patil College, Urun- Islampur (One year).
- Currently working as an Assistant Professor in Department of Biotechnology (Entire) at Vivekanand College Kolhapur (Empowered Autonomous) since 2021.

❖ **Academic Projects:**

- **Title of B.Sc Project:** 'Biosynthesis of gibberellic acid by using *Rhizobium Sps*
- **Title of M.Sc Project:** 'Comparative analysis of *Hymenocallis littoralis* (Spider lily) for medical approach & Acetylcholinesterase inhibition activity'.

**Objectives of project:**

- Comparative analysis of different parts of the plant such as Stalk, Flowers, Leaves & Bulb extracted in four different solvents like Ethanol, Methanol, Acetone & water by four different methods.
- Then extracted mixture checked for phytochemical analysis (Phenolic, Flavonoid, Tannic acid, Proanthocyanidin, Alkaloid) and Biochemical analysis (Sugar & Protein content).
- The anti-inflammatory activity checked using RBC's & antioxidant activity evaluated by DPPH, FRAP assay.
- In this study, qualification of Galantamine alkaloid in aqueous bulb extract was done by thin layer chromatography, then I have done acetylcholinesterase inhibition activity of water extracts.

❖ **Laboratory Skills:**

- **Microbial Techniques:** Media preparation, Pouring, Plating, Streaking, Spreading, Slants, Maintenance of cultures, Broths preparation.
- **Plant tissue culture techniques:** Selection & Sterilization of explant, Preparation of media, Inoculation, Subculturing (maintenance of culture).
- **Biochemical Techniques:** Chromatography, Reducing sugar estimation, protein estimation, SDS-PAGE, Native-PAGE.
- **Molecular Techniques:** Bacterial genomic DNA isolation, plasmid DNA isolation, Agarose gel electrophoresis.

❖ **Instrument Handling Experience:**

- Laminar Air Flow
- Colorimeter
- Hot plate
- UV-Vis Spectrophotometer
- Centrifuge
- Sonicator
- Autoclave
- Electrophoresis
- Shaking incubator, BOD Incubator, COD digester

❖ **Co-Curricular Activities:**

- Attended One day workshop on “BIO-INSTRUMENTATION” organized by Department of Zoology, Vivekanand College, Kolhapur (2 August 2017).
- Completed One week value added course on ‘Advanced Bio-analytical techniques in Biotechnology’ organized by Department of Biotechnology, Shivaji University, Kolhapur. (9 September 2019 to 16 September 2019).
- Attended one day workshop on ‘Job Opportunities in Pharmaceutical Industries’ under lead college activity, organized by Department of Biotechnology, VCK (Autonomous) on Friday 11<sup>th</sup> March 2022.
- Participated in the Teachers training program on Climate Campuses for a Safer Planet jointly organized by Department of Botany & IQAC of Vivekanand College, Kolhapur (Autonomous) on 16<sup>th</sup> Sept 2022.
- Attended MS-DEED level 1 workshop on Introduction to Innovative Pedagogies for Undergraduate Teachers at Vivekanand College, Kolhapur (Autonomous) (4th to 6th Nov 2022).

❖ **Declaration:**

I hereby declare that the above information is true to the best of my knowledge.

Date:

Place:

Your's Faithfully,  
(Ms. Vaishnavi Namdev Arekar)