

**Dr. Swati Jayswal**

Assistant Professor (Lifescience)

School of Science Building

swati.jayswal@gafcuniversity.ac.in**Education**

GSET (2022) – MSU, Vadodara

Ph.D. (2021) – Gujarat University, Ahmedabad

Thesis titled “Evaluation of Bioefficacy of selected *Allium* species of Gujarat using different polar protic and polar aprotic solvents”

M.Sc. (2017) – Gujarat University, Ahmedabad

B.Sc. (2015) – Hemchandracharya North Gujarat University, Patan

Key Skills

Dr. Swati Jayswal is capable of doing research in the field of life-science (Phytochemistry, Plant Physiology, Microbiology and Biochemistry):

1. Bioefficacy of plants regarding present phytochemicals and medicinal properties.
2. Evaluation of antioxidant activity, antibacterial activity and synergistic effects of plant extracts.
3. Content development and course designing for academic institutes.

Background

Worked as Assistant Professor at Hemchandracharya North Gujarat University since Sept, 2021.

Joined GSFC University in May, 2024.

Scholarship and Accomplishments

Dr. Swati Jayswal is young and dynamic assistant professor in the field of lifescience. Broadly defined, Swati’s research interests are in phytochemistry, plant physiology, microbiology and Biochemistry. She is particularly interested in phytochemical analysis of plants extracts having medicinal properties that can be used in drug development. Along with that she is having knowledge of Insilico analysis which is in demand now a day.

She has published more than twenty research and review papers in reputed journals. She has participated and presented paper at more than ten national/international seminars/conferences. She has published a book entitled “Antimicrobial Activity of *Allium* Species” with scholar’s press publication. Three patents have been registered under her name one is by UK Patent Office and other two is by The Patent Office, Government of Gujarat. She is working as an editor in more than three reputed journals.

Dr. Swati has a teaching experience of more than seven years wherein she has served as Assistant Professor in the Department of Botany, Hemchandracharya North Gujarat University and as Teaching Assistant in the Department of Botany, Gujarat University.

She teaches botany, microbiology and horticulture science and garden management to science students at M.Sc. and B.Sc. Program. She exposes students to science fundamentals and has chosen teaching to as a way to conduct research in education. She has mentored many postgraduate and undergraduate students in their research work.

Dr. Swati was awarded by Golden Petal Award for academic achievement and Golden Petal Award for outstanding achievement by Department of Botany, Gujarat University. Along with that she has been awarded with Young Scientist Award by Department of Botany, Gujarat University. She got 2nd rank in Minaxi- Lalit Science Award-2017 by Gujarat Science Academy.

She was invited as an expert/resource person in many invited talks and in seminars/conferences. She was one of the faculties that delivered the lecture in Vigyan Gurjari as a part of Student Innovation Fest 2023 which was considered as new world record as 327 experts gave the lectures to 35000 participants on a same time at respective institutes. She is a lifetime member of BAAG (Botanical Advanced Association, Gujarat).

Most Three Notable Publications

1. **Swati Jayswal** (2024). An Approach Of Insilico Analysis: Molecular Docking Of Phytochemicals Belong To Selected *Allium* Species. *Journal of Emerging Technologies and Innovative Research (JETIR)*. 11(4): 687-696.
2. **Swati Jayswal** and Bharat Maitreya (2021). Estimation of Total Phenolic Content (TPC) of Selected *Allium* Species of Gujarat using Different Extracts. *Plant Archives (International Journal of Plant Research)*. 21(1):463-466.
3. **Swati Jayswal** and Bharat Maitreya (2020). Qualitative Screening of Selected *Allium* Species of Gujarat using Different Extracts. *International Journal of Botany Studies*. 5(6): 461-469.