



Est.  
1977



# DEPARTMENT OF BIOSCIENCES

*Navigating the Odyssey of Words from Local  
Ethos to Global Tales*



## PROGRAMMES

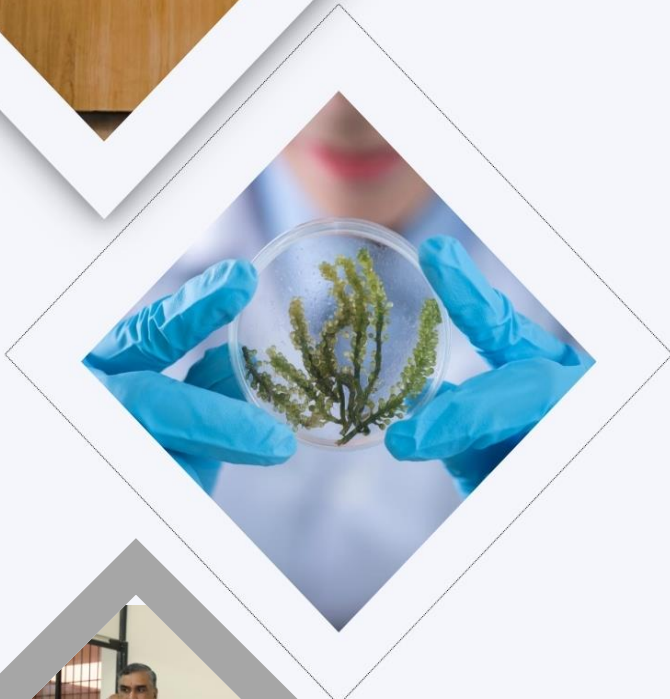
M. Sc.(Botany) ✓

M. Sc.(Zoology) ✓

M. Sc.(Microbiology) ✓

P.G.D.M.L.T. ✓

Ph. D.) ✓



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**Department of  
Biosciences  
(Est. 1977)**



## Nurturing and Navigating: Cells to Biosphere Expedition

**M. Sc. (Botany/Zoology/Microbiology) | P.G.D.M.L.T. | Ph. D. (Botany / Zoology / Microbiology)**

**ABOUT DEPARTMENT:** The Department of Biosciences at VNSGU is a distinguished institution dedicated to excellence in academic and research pursuits in the life sciences. Established in 1976, our department has grown into a premier bioscience institute in the South Gujarat region, recognized by UGC-SAP DRS-II and DST-FIST-I. We offer a comprehensive range of academic programs, including M.Sc., M.Phil., and Ph.D. courses in Biosciences specializing in Botany, Zoology, and Microbiology. Our P.G. Diploma in Medical Laboratory Technologies (PGDMLTs) provides practical skills development. At the forefront of cutting-edge research, the Department of Biosciences has successfully completed numerous projects funded by State, National, and international agencies. Our commitment to global collaboration is evident through MoUs with various institutes and organizations, facilitating the global recognition of our students, who have successfully emigrated to foreign countries. To support advanced research, our department boasts state-of-the-art instruments like GCMS, NGS, HPLC, HPTLC, etc., along with the BVBRC research centre, a Bioinformatics lab, a Supercomputer facility, and an ICMR-approved Covid-19 RT-PCR laboratory. Our core research facilities cover diverse areas such as Plant & Animal Physiology, Toxicology, Medicinal Plant, Drug Discovery, Bioinformatics, Microbiome, Nanobiotechnology, and Sustainable Environment. Our accomplishments extend beyond the classroom. Beyond the classroom, our dedication to innovation fuels numerous research projects launched both nationally and internationally. Join us on a journey of academic excellence, research innovation, and global collaboration as we continue to shape the future of biosciences. Embark on our quest to explore and understand the world, solve its mysteries, and contribute to the vast body of knowledge in the life sciences.

### FACULTIES

**DR. KAILASH P. PATEL** - Professor & Head (Specialization: Plant anatomy, Environmental toxicology, Plant physiology)  
**DR. RAJESH K. PATEL** - Professor (Specialization: Bioinformatics, Drug Design, Enzymology, Metagenomics)  
**DR. JIGNA R. DESAI** - Asso. Prof. (Specialization: Toxicology, Hydrobiology, Animal Cell Culture)  
**DR. FARZIN M. PARABIA** - Asso. Prof. (Specialization: Herbal Drug, Medicinal Plant, Molecular biology)  
**DR. JAGRUTI K. BAROT** - Asst. Prof. (Specialization: Fish biology, Biodegradation, Toxicology)  
**DR. PRAVIN R. DUDHAGARA** - Asst. Prof. (Specialization: Microbiology, Metagenomics, Extremophiles, Nanobiotechnology)  
**DR. DHARA A. GAMIT** - Asst. Prof. (Specialization: Agriculture Microbiology, Environment Microbiology)

### FACILITIES

ICT enabled Classrooms- 05 | Research laboratory- 06 | Computer- 30 | Printers & Scanners- 07 | HPC Workstations -03 | Supercomputer- 01 | Teaching Lab. -06 | Seminar Hall-01 | Computer Lab.- 01 | Central Instrument Lab. -01 | Microscopy Lab. -01 | Auditorium-01 | Plant Tissue Culture Lab.-01 | Animal Cell Culture Lab.- 01 | Shri Bapalal Vaidya Botanical Research Centre- 01 | Botanical Garden- 01 | Green House- 01 | Aquarium -01 | NGS, GCMS, HPLC, RT-PCR, HPTLC, RT-PCR, Fluorescent Microplate Reader | TYPE-I Water Purification system | Type IIA Biosafety

### FEATURES

2015 onwards: Research Paper- 99+ | Book Chapter - 09+ | Research Guidance- 46+ | Research Project- 14+ | Consultancy - 01 | UGC-SAP-DRS-I- 2011 to 2016: Toxicity Evaluation of Textile Industry Effluent | UGC-SAP-DRS-II-2018 to 2023: Environmental Toxicology and Ecogenomics DST-FIST-Level-I 2018 to 2023: Host-Microbiome Interaction | Sectioned BSR Scholarships & SODH fellowship | Awarded GUJCOST & GSBTM Sponsored state-of-the-art Bioinformatics & Supercomputer facility | ICMR approved COVID-19 RT-PCR Laboratory

**CAREER OPPORTUNITY:** Teaching & Research, Pharmaceutical Company, Forest Department, Environmental Consultant, Horticulturist, Agricultural Consultant, Plant Biochemist, Ecologist.

**ELIGIBILITY:** Graduation in Science with Botany or its Equivalent or Allied Subject.

**DURATION :** 2 years (4 Semesters)  
**ADMISSION PROCESS :** Merit Based

Fees / term	GR 13 Seats	HP 07 Seats	SF 38 Seats
Male	6935	25935	32435
Female	4435	23435	32435

**M. Sc. Botany**

**CAREER OPPORTUNITY:** Teaching & Research, Pharmaceutical, Forest Department, Environmental agencies, Fisheries, food companies, Government and Private research organization.

**ELIGIBILITY:** Graduation in Science with Zoology or its Equivalent or Allied Subject.

**DURATION :** 2 years (4 Semesters)  
**ADMISSION PROCESS :** Merit Based

Fees / term	GR 13 Seats	HP 07 Seats	SF 30 Seats
Male	6935	25935	32435
Female	4435	23435	32435

**M. Sc. Zoology**

**CAREER OPPORTUNITY:** Teaching & Research, Pharmaceutical, Forest Department, Environmental agencies, Fisheries, food companies, Government and Private research organization.

**ELIGIBILITY:** Graduation in Science with Microbiology or its Equivalent or Allied Subject.

**DURATION :** 2 years (4 Semesters)  
**ADMISSION PROCESS :** Merit Based

Fees / term	GR 13 Seats	HP 07 Seats	SF 38 Seats
Male	6935	25935	36935
Female	4435	23435	36935

**M. Sc. Microbiology**

**CAREER OPPORTUNITY:** Hospital, Clinical research organization, Pharmaceutical industries, etc.

**ELIGIBILITY:** Graduation in Biosci./ Microbio./Med.Tech/Env. Sci. or Equivalent or Allied Subject.

**DURATION :** 1 year (2 Semesters)  
**ADMISSION PROCESS :** Merit Based

Fees / term	GR	HP	SF 50 Seats
Male	-	-	22935
Female	-	-	22935

**P. G. D. M. L. T.**



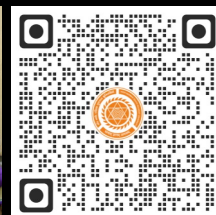
**DR. KAILASH P. PATEL**

**Professor & Head**

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