

Professional Preparedness in **Advance Microbiology**



M.Sc. Microbiology

Microbes are the oldest inhabitant of earth and the life of a human is directly or indirectly intertwined with them since time immemorial though their existence was discovered much later. Microbes are ubiquitous and hold immense diversity which has made microbial studies a keen area of interest. The Master of Microbiology is a research oriented program, that trains and shapes career of the students on more specialised area. M.Sc. Microbiology will open a broad field of life-science with interdisciplinary applied research and development (R&D) career opportunities.

Eligibility Criteria:

Bachelor's degree under 10+2+3/4/5 pattern of education (B.Sc./ B.Voc/ B.E./ B.Tech etc.) in Microbiology, Biotechnology, Biochemistry, Bioinformatics, Genetics, Medical Laboratory Technology Sciences, Botany, Zoology, Life Sciences, Environmental Sciences, Agricultural, Veterinary, Fishery & Dairy Sciences, Pharmacy, Medicine (MBBS), BDS, BHMS, BAMS or Physiotherapy from a recognized university/institute.



M.Sc. Microbiology @ Darshan University



Curriculum designed for outcome based learning.



Laboratories with industrial and research standard advance instruments.



Experience faculties with urge of continuous updating and student mentoring attitude.



Research attitude development through problem solving practical pedagogy.



Professional preparedness through visits, workshops and trainings.



Employability, entrepreneurship, and technical skill based curriculum.

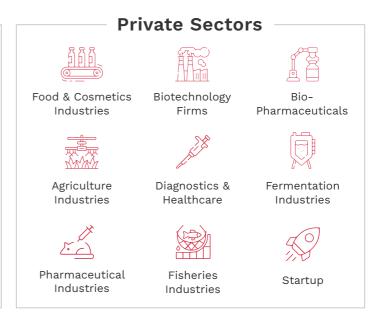


Holistic development of students with the aim to impart leadership, entrepreneurship, and cultural values along with technical expertise.



Career Oppotunities

Government Sectors Health Scientific Biodiversity Services Roard Adviser R & D Forensic Oil & Natural Laboratories Scientist Gas Industry Academic Agriculture Space Institutes Departments Microbiologist





Semester-1

- General Microbiology, Diversity & Systematics
- · Biochemistry and Enzymology
- Basic Immunology and Diagnostics
- Elective 1
- Combine Practical Course 1

Semester-2

- Microbial Physiology and Metabolism
- Microbial Genetics and Molecular Biology
- Microbial Ecology and Applied Microbiology
- Elective 2
- Combine Practical Course 2

Semester-3

- Bioengineering and Bioprocess Technology
- Genetic Engineering & Microbial Biotechnology
- Virology & Mycology
- Skill Enhancement Course 1
- Combine Practical Course 3
- · Dissertation Phase I

Semester-4

- · Environmental Microbiology and Microbial Remedial Technology
- Medical Microbiology
- Combine Practical Course 4
- Dissertation Phase II

Elective Courses

- Bio-analytical Techniques and Bioinformatics
- Bio-Computing and Biostatics
- · Agriculture Microbiology
- Molecular Cell Biology and Inheritance Biology

Skill Enhancement course

- Advances in Microbiology
- Extremophiles & Extremozymes
- Functional Food & Microbial Products

ADD - ON Courses

- Research Methodology & Technical Communication
- Seminar Presentation 1
- Seminar Presentation 2
- MOOC through SWAYAM / NPTEL
- Microbiology Professional Preparedness Activity

Focused Research Area



Microbiology





Omics Technology



Enzymology



Extremophiles



Aquatic Microbiology



Computational Biology & Bioinformatics



Environmental Biotechnology



Molecular Microbiology and Microbial Genomics



Skill Enhancement Activities @ DU



















Central Instrumentation Facility @ DU























University Campus

- ₱ Rajkot-Morbi Highway, Rajkot – 363650.
- **\\$** 9727747310 / 11
- www.darshan.ac.in

Counseling Centre

- 401, Lotus Arcade, 8 Royal Park, Between KKV Circle & Indira Circle 150 Ft. Ring Road, Rajkot - 360005.
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