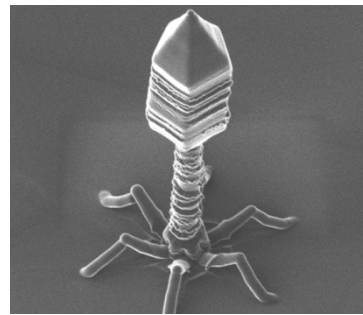


# DEPARTMENT OF STUDIES IN MICROBIOLOGY



**UNIVERSITY OF MYSORE**  
**Manasagangothri, Mysore-570006, India**

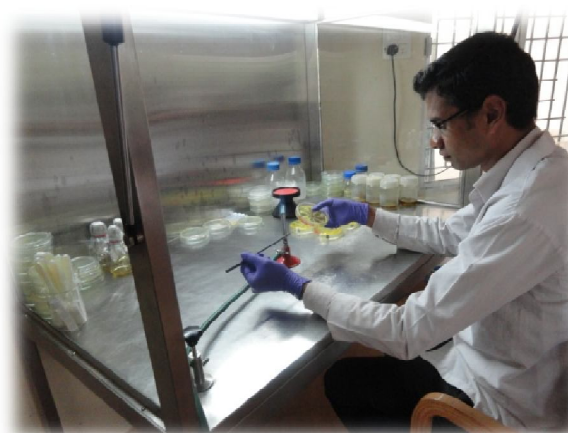
## About the Department

During 1980's, Department of Studies in Botany felt the need of M.Sc Microbiology course due to its pivotal role in the field of biology. Considering the need of the society, it was in 1992 this course was started in the same department, with a well designed curriculum and expertise faculty. In 1999, it was identified as a separate section of Department of Studies in Botany and on 23<sup>rd</sup> July 2008, the Microbiology section got its own Department of Studies in Microbiology. Now it is housed in life science building with good infrastructure and laboratory facilities.



## National Status

The Department of Microbiology has gained national reputation by offering free consultation service to farmers, plantation owners, nursery growers and forest officials in identifying the causal organism and control measures to tackle plant pathogens. Through this unique plant clinic programme, thousands of diseased plant materials are screened, pathogens are identified and remedial measures are suggested to farmers and growers in a regular basis. Ongoing research and academic programmes carried out in the department has been recognized and sponsored by Department of Science and Technology's FIST programme. Under the aegis of University Grants Commission, the department has recently gained national attention by commencing a Postgraduate Diploma course in Food Quality and Safety.



## Mission and Vision

The department has a mission to impart skill based scientific and technical knowledge to students, with a vision to produce trained microbiologists. Focused research and development activities in the department has empowered the knowledge of microorganisms with vast applications in human health, agriculture, environment and industrial sectors.

## Courses Offered

### M.Sc Microbiology

**Duration:**

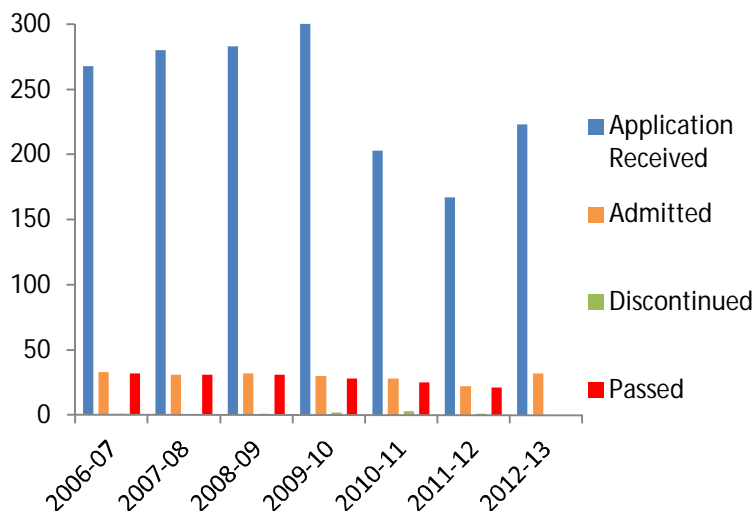
4 Semesters - 2 Years Programme

**About the course:**

Microbiology is considered as one of the major field of study in life science education with vast applications in human health sector, environmental studies, agriculture, industrial/ biotechnology sectors. This course covers classical and advanced microbiology with special emphasis on molecular biology and genetic engineering.

**Eligibility:**

B.Sc with Microbiology as one of the major or optional subject from any national or international recognized university



Admission statistics from 2006-2012

### Postgraduate Diploma in Food Quality and Safety

**Duration:**

12 Months Programme (2 Semesters)

**About the course:**

This course is designed to develop practical "hands on training" in food safety and quality. The course accentuates on the fundamental principles of 'Quality Assurance' and 'Food Safety' issues. Schedules will be provided with knowledge required to either enter into or progress within the food industry. Meticulously designed course curriculum with practical skills on core areas in food chemistry, food microbiology, food analysis, processing and management can upgrade the present knowledge in the food science and technology.

**Eligibility:**

Candidates from India and abroad who have completed Masters Degree in Botany/ Applied Botany/ Biotechnology/ Microbiology/ Biochemistry/ Plant Science/ Agriculture/ Sericulture/ Food and Nutrition/ Bioscience/ Life Science with at least 45% marks are eligible to apply.

### Ph.D Microbiology

**Duration:**

3 - 5 Years Programme

**About the course:**

Candidates must complete course work and has to pursue research on the emerging fields of microbiology under the guidance of research supervisors. Regular assessment of the research is carried out by the doctoral committee based on the quality of research publications in peer reviewed journals.

**Eligibility:**

M.Sc Microbiology and allied subjects are eligible to apply for the course. Selection is based on entrance test followed by an interview. Fellowship holders are exempted from entrance.

## Infrastructure, Laboratory Facilities and Equipments

WiFi Campus, Interactive Audio-visual seminar hall, Departmental Library, Computer lab with internet, Fungal Incubation Chamber, Type II Biosafety Cabinet, PCR Machine, Stereo & Binocular Microscopes with Image Acquisition, Gel Documentation System, -80°C & -20°C Deep Freezers, Ultra cool table top centrifuge, UV-Vis Microplate Reader and Rotary Evaporator.

## Best Practices

- Providing microbial cultures to educational is subject experts from National institutions and sister Departments.
- Special lectures from national & International Research Institutions and other Universities.
- Faculty and students participation in Association of Microbiologists, Mysore Chapter
- Interaction of students, Research scholars and Faculty members on special areas of Microbiology.

## Faculty Profile

Name & Designation	Research Specialization	Contact Details
 <b>Prof. V Ravishankar Rai</b>	Agriculture Microbiology, Food Technology, Forest Pathology, Endophytic Fungi, Medicinal Plants, Phytochemistry, Cell and Tissue Culture, Bacterial Quorum Sensing, Microbial Mediated Corrosion	Ph: +91 821 2419441 Email: raivittal@gmail.com rrai33@hotmail.com
 <b>Dr. Shubha Gopal Chairperson &amp; Associate Professor</b>	Bacteriology, Molecular Pathogenesis, Proteomics, Genomics: Bioprospecting from Medicinal Plants.	Ph: 0821-2419735 Email: <a href="mailto:sguom@yahoo.com">sguom@yahoo.com</a> <a href="mailto:sg@microbiology.uni-mysore.ac.in">sg@microbiology.uni-mysore.ac.in</a>
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