SCHOOL OF STUDIES IN MICROBIOLOGY

Programmes Offered:

1. M. Sc. Microbiology (Two years / Four semester)
2. Ph.D.

Profile of the Course:

School of Studies in Microbiology came into existence in 1995 under the self supporting programmes. The Two year/ Four semesters M.Sc. programme in Microbiology is based on the semester system with the objective to produce manpower in applied areas. Students who have completed M.Sc. from our Department have been absorbed in various laboratories, industries and other organizations. Some of the students have qualified NET examinations as well.

Over the past fourteen years, School of Studies in Microbiology has built up a worthwhile teaching/ research base. In addition to routine laboratories, the Department has a well equipped instrumentation facility, a rich library and computer facility accessible to the students under the guidance of worthy teachers. The major instruments include: Thermal cycler, Electrophoresis systems, UV-visible spectrophotometer, Cooling centrifuges, Deep freezer and Laminar air flow etc. The Department has successfully completed a few research projects sponsored by Department of Biotechnology, University Grant Commission and MOEF, New Delhi.

The post graduate Course in Microbiology offers excellent opportunities for carrier advancement and students can look forward for being absorbed in private/public sectors/autonomous organisations. It is needless to emphasise the scope of Microbiology in Industries. Both the private and public sectors are undertaking interest in the industrial applications of microbial Technology like synthesizing new drugs, proteins, enzymes, antigens and diagnostic materials.

1. M.Sc. Microbiology: (Two years / Four semester)

Eligibility: B.Sc. with 50% marks with Microbiology / Biotechnology / Botany / Zoology / Chemistry / Environmental Science.

Available Seats: Open = 20 Payment = 20 NRI = 05

Mode of Selection: On the basis of the merit in entrance test conducted by the university

Faculty:

Prof. R.M. Agrawal, Coordinator

UGC Emeritus Fellow: Dr. Aminuddin, Former Scientist F and head Molicular Virology Laboratory NBRI Lucknow

Visiting Faculty:

Prof J S Virdi (DU) Prof GBKS Prasad Dr. V.S. Chauhan (BU) Dr.Bhanumati Singh(BU)
Prof. Surendra Singh (BHU) Prof P K Singhal JBP

Other guest faculty screened / selected by selection committee duly constituted by the University

Course Structure:

I – Semester

Introduction to Microbiology & General Bacteriology
Virolgy & Micology
Cell Biology & Biochemistry
BioInstrumentation
Lab Course-I

II – Semester

Microbial genetics and Molecular Biology
Immunology
Microbial Physiology and Metabolism
Biostastics, Computer fundamentals and Bioinformatics
Lab Course-I
III – Semester
Medical Microbiology
Recombination DNA Technology
Environmental Microbiology
Microbial Technology
Lab Course-I
Lab Course-II
Project work / Assignment / Seminar

There will be weekly seminars throughout the course.

IV – Semester
Agriculture Microbiology
Food Microbiology
Lab Course
Project work of 3-4 month duration

Fees for the course:

<table>
<thead>
<tr>
<th>Course</th>
<th>I Semester</th>
<th>II Semester</th>
<th>III Semester</th>
<th>IV Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Sc. Microbiology</td>
<td>Rs. 27415.00</td>
<td>Rs. 23525.00</td>
<td>Rs. 24875.00</td>
<td>Rs. 23525.00</td>
</tr>
<tr>
<td>Payment Seat: M.Sc.</td>
<td>Rs. 16000/- additional to the fees for Open Seat</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>