



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
(Deemed to be University under section 3 of the UGC Act 1956)



**AVMC**  
AARUPADAI VEEDU MEDICAL COLLEGE



# Department of Medical **MICROBIOLOGY** Faculty of Medicine

MSc MEDICAL MICROBIOLOGY



INFORMATION BROCHURE  
ACADEMIC YEAR 2023-2024



Admission  
Now Open

2023

## FACULTY OF MEDICINE

Introducing the new M.Sc. Medical Microbiology Program, join us and explore the exciting world of medical Microbiology. Our MSc program is designed to provide you with the skills and knowledge needed to excel in the field.

### Why choose our program?

#### ✔ Cutting edge curriculum

The course will help to develop extensive theoretical and practical laboratory skills by building on the research expertise of the teaching team.

#### ✔ Expert Faculty

Learn from expert staffs in medical microbiology, who have worked in academic research and clinical research

#### ✔ Hands on training

Gain substantial exposure to practical techniques and guaranteed laboratory - based research projects

### ADMISSIONS ARE NOW OPEN FOR MSC MEDICAL MICROBIOLOGY

- Medical Microbiology has gained humongous popularity in recent times among aspirants who want to pursue a career in medical science owing to its rapid emergence & associated scope. Our M.Sc. Program is equipped with the most recent & relevant curriculum and contemporary learning approaches.
- Skills like problem solving, critical thinking, reasoning, research, laboratory maintenance, lateral thinking abilities, recent updations & entrepreneurship are enhanced through seminars, guest lectures, workshops, projects, internship and dissertation included in the course curriculum.
- The department believes that applied knowledge and acquired skills is essential, hence it offers standard quality of education to the students. We take pride in providing our students with the needed cutting edge technology & state-of-the-art facilities such as well equipped lecture halls & advanced library to render the course fruitful

### ACADEMIC PROFILE

The following courses are also offered in the Department of Medical Microbiology.

#### POSTGRADUATE

- **M.D., Microbiology**
- **PhD** : We are offering courses for those who completed M.Sc Medical Microbiology to pursue **PhD in Medical Microbiology**



## Salient features of Medical Microbiology at AVMC

M.Sc., Medical Microbiology is a three-year post graduate course that arms the students with the needed knowledge and practical exposure in the field of medical Microbiology. The master's program is a medical microbiology choice-based credit system (CBCS) to support the new type of training where mentoring and tutoring with active research is an integral part of the academic life and also learning experience of a student. Some of the salient features of M.Sc., Medical Microbiology program are:

- **Curriculum:** A specifically crafted curriculum for the students to provide an in-depth understanding of various aspects of medical Microbiology, including molecular biology, microbial genetics & molecular diagnostics.
- **Practical Training:** Special emphasis is given to the students in the field of practice by organising hands-on approaches.
- **Research-oriented:** Exposure in the field of Research will provide an opportunity for the students to conduct studies in their line of interests.
- **Experienced Faculty:** The program is designed to operate under the guidance of experienced faculty who have expertise in the field of clinical microbiology, serology, virology and molecular biology which provide students the valuable insights and knowledge.



**Course duration:**

Three years (Six semesters)

**Eligibility:**

B.Sc., (50% of aggregate marks) in any branch of Life Sciences

B.Sc. MLT, (50% of aggregate marks) in any branch of Life Sciences

(Biology, Botany, Zoology, Microbiology), BVSc., or equivalent there-to.



### Electives (Discipline Specific Electives)

- ❖ Bioethics, IPR
- ❖ NABH Training
- ❖ NABL Training
- ❖ Hospital Infection Control
- ❖ Biomedical waste management
- ❖ Environmental Microbiology
- ❖ Molecular Biology & Recombinant DNA Techniques
- ❖ Bioinformatics
- ❖ Good Laboratory practice
- ❖ Microbiome biology
- ❖ Veterinary Microbiology

Semester I	Semester II	Semester III
Anatomy and Physiology Biochemistry General Microbiology & Immunology	Anatomy Physiology Biochemistry Systemic bacteriology	Systemic Bacteriology Microbial genetics



### Electives (Generic Electives)

- ❖ Environmental Science
- ❖ International English Language Training System
- ❖ Introduction for health and Hygiene
- ❖ Intellectual Property Rights
- ❖ Fundamentals of entrepreneurship / GLP & GCP
- ❖ Yoga for Health
- ❖ Basic Life Support
- ❖ Agricultural Microbiology

Semester IV	Semester V	Semester VI
Virology, Molecular Biology	Mycology Parasitology	Recent Advances in Clinical Microbiology Project work and Dissertation



## Careers & Opportunities

- Basic foundation & multidisciplinary training will help the students to choose their higher education & research in the field of advanced molecular technology & diagnostics.
- As Research associates & research scientists in the industries like Pharmaceutical & scientific companies, Medical Microbiology Industries, Life science industries, and start-ups.
- As a medical technologist/assistant at various medical centres (or) technical manager in laboratory.
- As a Bio-entrepreneur: VMRF will provide all basic support in establishing start-ups in Dr. Ganesan Incubation Centre (GIEC), especially for students.
- Opportunities to toppers in finding doctorate position is world Class top Universities.



## Fees Details

S.No.	Particulars	I Year	II Year	III Year
1.	Tuition Fees	75000	75000	68000
<b>Unversity Fees</b>				
2.	Admission Fee	2000	0	0
3.	Registration Fee	3500	0	0
4.	Eligibility Fee	1500	0	0
5.	Library Fee	1000	1000	1000
6.	Sports Fee	1000	1000	1000
<b>Miscellaneous Fees</b>				
7.	Digital Learning Support Books & Records Lab Coat ID Card	11000	8000	5000
Grand Total		<b>95000</b>	<b>85000</b>	<b>75000</b>



## How to apply:

- › Visit the official website of <https://avmc.edu.in/medical-microbiology>
- › Read the eligibility criteria and other important information mentioned in the information brochure.
- › Fill in the online application form and upload all the required documents.
- › Shortlisted candidates will be notified through email and institute's website.

### For Admission and Enquiry contact

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 <https://avmc.edu.in/medical-microbiology>