

**Pravara Institute of Medical Sciences  
(Deemed University)**

Loni Bk - 413 736, Tal. Rahata, Dist. Ahamadanagar (M.S.)

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**Syllabus**  
**M. Sc. (Medical Microbiology)**

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# PRAVARA INSTITUTE OF MEDICAL SCIENCES

## CURRICULUM

### M.Sc (MEDICAL) MICROBIOLOGY

#### 1. AIM

The aim of this course is to train the students of Medicine in the field of Medical Diagnostic Microbiology. Knowledge and practical skills shall be acquired by the candidates in the sub-specialities of Bacteriology including Mycobacteriology, Virology, Parasitology, Immunology, Serology & Mycology so as to be able to deal with diagnosis and prevention of infectious diseases in the community. They will be trained in basic research methodology including molecular biology so that they are able to conduct fundamental and applied research. They will also be trained in teaching methods so that they can take up teaching assignments.

#### 2. Goal

The goal of postgraduate medical education shall be to produce complement specialist and medical teacher: -

1. Who shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy.
2. Who shall have mastered most of the competencies, pertaining to the specialty that are required to be practiced at the secondary and the tertiary levels of the health care delivery system.
3. Who shall be aware of the contemporary advances and development in the discipline concerned.
4. Who shall acquire a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology, and
5. Who shall have acquired the basic skills in teaching of the medical and paramedical professionals.

#### 3. Objectives

At the end of the postgraduate training in the discipline concerned the student shall be able to :

##### (A) KNOWLEDGE:

1. Recognize the importance of the concerned specialty in the context of the health needs of the community and the national priorities in the health sector.
2. Practice the specialty concerned ethically and in step with the principles of primary health care.
3. Demonstrate sufficient understanding of the basic sciences relevant to the concerned specialty.
4. Identify social, economic environment, biological and emotional determinants of health in a