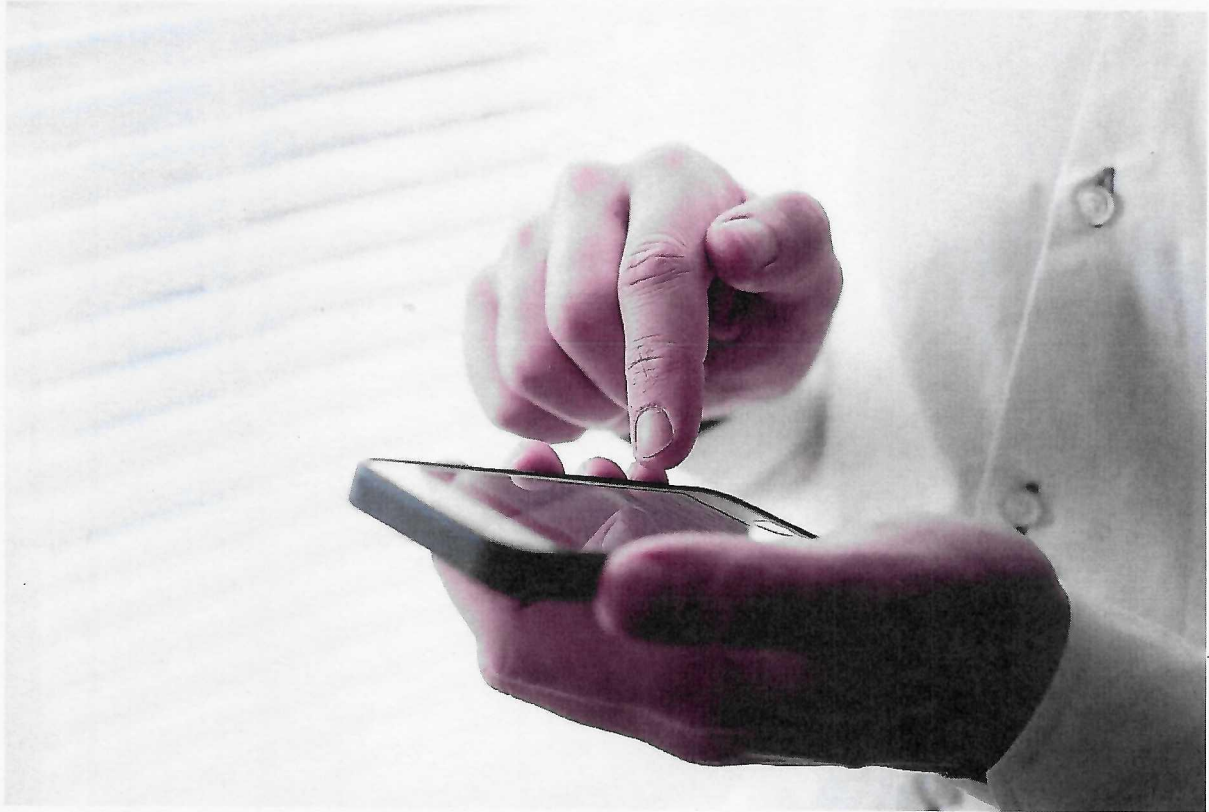


# Syllabus for MD (Microbiology) Programme



**Guru Gobind Singh Indraprastha University**

A State University established by the Govt. of NCT of Delhi

**University School of Medicine and Allied Health Sciences**

## MINUTES OF MEETING

### MEETING OF SUBCOMMITTEE (MICROBIOLOGY) FOR APPROVAL OF SYLLABUS FOR MD UNDER GGS IP UNIVERSITY

A meeting of the subcommittee was held in the Dept of Microbiology, VMMC and Safdarjung Hospital on the 19<sup>th</sup> May 2010 at 2 p.m. The meeting was held under the chairmanship of Dr. Monorama Deb, Director Professor and HOD and attended by Dr. Anuradha Makkar, Associate Professor, ACMS and Dr Nirmaljeet Kaur, Assistant Professor, PGIMER.

The subcommittee went through the draft syllabus provided by Prof H. K. Kar, Dean GGS IP University.

The following suggestions were made to overcome deficiencies noted in the programme provided by the University:-

1. **Programme Objective:** The PG students need to undertake teaching assignments of undergraduate students. This may be included as the 6<sup>th</sup> objective.
  
2. **Submission of Thesis:** The PG thesis may be submitted at least 1 year before the date of commencement of the Theory examination instead of 6 months as shown in the document provided.
  
3. **Examination-Theory:**
  - a) Paper I: General Microbiology & Immunology
  - b) Paper II: Systemic Bacteriology & Mycology
  - c) Paper III: Virology & Parasitology
  - d) Paper IV: Applied Microbiology & Recent advances.

The required changes in the format may be done.

4. **Practical Examination :-**
  - a) **Bacteriology:** Under S.No. 03, in addition to performing Post Mortem of Laboratory animals, handling of Laboratory animals must also be added.

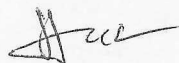


- b) **Virology:** Egg Innoculation, Virus Titration & Virus Neutralisation tests have been included in the syllabus but none of the Medical Colleges have the facilities for performing and training students in these at present. Neither will it be possible to develop these without a full fledged Virology establishment. In the circumstances it is suggested that this essential training be given through collaboration with some sister institution having the facilities. It may be pointed out that training of PG students for these skills in Delhi University Medical Colleges is being carried out in NCDC.
- c) **Mycology:** The number of fungal isolates which the students need to identify may be clearly mentioned. (Optimum 06 per student)
- d) **Parasitology:** Histopathology & other slides to examine the skills in Parasitology may be included. A set of 06 slides per student should be given.
- e) **Viva-Voce:** The component of seminar presentation in viva voce examination: The topic for Preparation & Presentation should be provided on Day 1 of the examination, and this is to be delivered on Day 3.

5. **Modification of Syllabus- Theory**

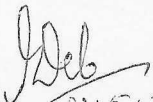
- a) **Paper I: General Microbiology**  
To be added to the list:
  - i) Isolation and Identification of bacteria.
  - ii) Serial No. 17 should include 'gene cloning'.
  - iii) 'Care and use of Laboratory Animals and their maintenance' should be added to the list.
- b) **Paper IV: Applied Microbiology & Recent advances:**  
To be added to the list:
  - i) Disaster Management
  - ii) Bioterrorism.
- c) **Practicals:** The proposed programme for skill development is adequate.

(The page numbers are not provided in the document and this may please be noted & rectified in the future communications.)







6. In addition the members would like to submit that a PG student in Microbiology needs to have a working knowledge of Cytology, Recognition of Tissues and changes that occur in them in acute & chronic inflammatory diseases, Knowledge of Blood Bank particularly in relation to transmission of infectious diseases, and Knowledge about presentation, diagnosis and sampling of fungal infections (dermatophytosis etc.) and of leprosy. Therefore, at least 4-6 weeks training (during the 2<sup>nd</sup> /3<sup>rd</sup> year of PG) in Pathology and 2-4 weeks training in Blood Bank and Skin & STD will be essential for students.
7. A list of Textbooks and Journals required for Post Graduate students is enclosed.

  
21-5-2010

Dr. Monorama Deb  
Director Prof  
VMMC & SJH  
(Chairman, Subcommittee BOS)

  
21-5-2010

Dr. Anuradha Makkar  
Assoc Prof  
ACMS  
(Member)

  
21-5-2010

Dr. Nirmaljeet Kaur  
Asst. Prof  
PGIMER  
(Member)

To Prof H. K. Kar, Dean, GGS IP University, Dr. Ram Manohar Lohia Hospital, New Delhi-110001 with reference to his letter no. Do/OD/BOS/32, dated 01-04-10 & follow up letter dated 28-04-10



### List of standard Textbook

1. Textbook of Microbiology 8<sup>th</sup> Edition; Ananthanarayan & Paniker.
2. Medical Microbiology; Greenwood, Slade et.al Churchill Livingstone
3. Medical Parasitology; S.C. Parija
4. Medical Parasitology; Arora/Arora
5. Mackie & McCartney, Practical Medical Microbiology
6. Review of Medical Microbiology; Javetz.

### Standard Ref. Book

1. Principles & Practices of infectious diseases, by Mandella, Bennett
2. Essential immunology by Roitt.
3. Manual of clinical Microbiology by Murray, Baron (ASM)
4. Topley & Wilsons, Microbiology & Microbial infection (7 Vol)
5. Diagnostic Medical Parasitology, by Garcia
6. Koneman's color atlas & textbook of Diagnostic Microbiology
7. Hospital Acquired Infection; Mayhall's
8. Medical Virology; Feumer & White
9. The Big Picture – Medical Microbiology; Neal R Chamberlain, Mc Graottill Medical.

### Indian Journal:-

1. Indian Journal Medical Research,
2. Indian Journal Medical Microbiology
3. Journal of Com. Dis
4. Indian Journal Pathology & Microbiology

### International Journal:

1. Lancet
2. Lancet Infection Dis. Journal
3. NEJM
4. J. Med. Microbiology
5. Emerging Infectious dis.
6. Clinical Infect. Dis
7. J. of infect Dis.
8. Clinical Microbiology reviews
9. J. of Antimicrobial & Chemotherapy, vaccine
10. Infect. Immunity
11. Clini & diag. microbiology
12. J. of hospital infection
13. JCM

All Journals are also available online.

