

Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati  
(Autonomous Status)  
(Affiliated to Savitribai Phule Pune University, Pune)

Board of Studies in MICROBIOLOGY

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- 14) Mr. Vipul Nilkanth - Member (Meritorious Alumni)

Date of Meeting: 15/04/2021

Agenda of Meeting:

1. To design the syllabus and academic framework for T. Y. B. Sc. class.
2. To design the credit system allotment.
3. Any other matter with the permission of the chair.

Minutes of Meetings:

The online meeting was held on 5<sup>th</sup> April 2021 using Google meet.

The basic draft of Syllabus of T.Y.B.Sc Sem-V- MICRO: 3501: Medical Microbiology, MICRO: 3502 Genetics and Molecular Biology I, MICRO: 3503 Enzymology, MICRO 3504 Immunology-I, Micro: 3505, Fermentation Technology-I, MICRO: 3506 Food and Dairy Microbiology and Micro: 3507, Practical Course – I, Applied Microbiology- Micro:3508, Practical Course-II-Biochemistry, Micro:3509, Practical course-III – Clinical Microbiology Sem-VI - MICRO: 3601: Medical Microbiology, MICRO: 3602 Genetics and Molecular Biology I, MICRO: 3603 Enzymology, MICRO 3604 Immunology-II, MICRO: 3605 Fermentation Technology-II, MICRO: 3606 Agricultural and environmental Microbiology and Practical Course – I, Applied Microbiology-II MICRO:3607, Practical Course-II- Molecular Biology MICRO:3608, Practical course-III – Haematology and Immunology MICRO3609 was discussed and prepared by Dr.S.T.Pawar, Dr.Y.R.Mulay, Dr.M.H.Gajbhiye, Miss.S.P.Owal.

Suggestions and comments on the T. Y. B. Sc. Microbiology Syllabus

By Dr. Rajashree Patwardhan

1. References should be incorporated in all T. Y. B.Sc. theory and practical papers.
2. Proper formatting is required for all the papers.
3. Overall syllabus is good. The core content of each paper is strong and complete.
4. Observations/ suggestions regarding some papers are as follows

Paper Code: MICRO-3506 Paper: Theory Paper Title: Food and Dairy Microbiology

1. Do not include definition of food in sensory characters of food

Sensory characters of food-

- Definition of food.

Paper Code: MICRO 3504 Paper: IV; Title: Immunology – I

Primary lymphoid organs (Thymus and Bursa):

1. Instead of Bursa which is there in birds, you can add Bone marrow which is a primary lymphoid organ in humans.

Organs of immune system:

1. mucous associated lymphoid tissue.

It should be mucosa associated lymphoid tissue

Concepts and factors affecting Immunogenicity; Spelling mistake

It should be Immunogenicity.

Transplantation and Immunity

1. You can add Transplantation Immunology instead of Transplantation and Immunity

Paper Code: MICRO 3507 Paper: Practical Course – I, Title: Applied Microbiology – I

Tests for Milk and Dairy products

1. Direct Microscopic count: Spelling mistake

By Mr. Vipul Nilkanth

Paper Code: MICRO:3501

Paper Title: MEDICAL MICROBIOLOGY

Topic I: A sub-topic on Skin diseases caused by microbial pathogens may be included.

Topic II: A brief overview of the epidemiological monitoring organisations (such as National Institute of Virology and epidemiological bodies of other diseases), and their operations/roles in monitoring and control of infectious diseases may be included.

Micro:3502

Genetics and Molecular Biology I

An introduction to the topic of CRISPR-CAS gene editing mechanism/bacterial genetic defence mechanism be added to the syllabus.

Micro: 3503

Enzymology

The concept of enzyme based 'biosensor devices' and their industrial and diagnostic applications be added to the syllabus

Micro: 3504

Immunology I

A sub-topic on cytokines may be added to the syllabus.

Micro: 3505

Fermentation Technology-I

The contents of the syllabus cover most of the important topics and seem adequate.

Micro: 3506

Food and Dairy Microbiology

The contents of the syllabus cover most of the important topics and seem adequate.

Micro:3507

Applied Microbiology-I

The contents of the syllabus cover most of the important topics and seem adequate.

Micro:3509

Clinical Microbiology

The topic of handling and methods for safe disposal of biomedical/clinical waste materials (for e.g. by incineration) be added to the syllabus.

By Dr. Puranik P. R.

I have gone through the syllabi sent by you. I need to appreciate the faculty involved in this process that they have given justice and logically prepared the syllabi.

i) Micro:3501, Medical Microbiology

ii) Micro: 3502, Genetics and Molecular Biology- I

iii) Micro:3503, Enzymology

iv) Micro:3504, Immunology-I

v) Micro:3505, Fermentation Technology –I

vi) Micro:3506, Food and Dairy Microbiology

vii) Micro:3507, Practical Course – I, Applied Microbiology-I

viii) Micro:3508, Practical Course – II,

ix) Micro:3509, Practical Course – III, Clinical Microbiology


The content of syllabi is appropriate as per the respective title of paper.



I anticipate that the syllabi of various papers will be compiled and edited maintaining the uniform formatting in a single file. Certain spellings errors can be corrected.

As a member of 'Board of Studies' in Microbiology at T.C. College, Baramati I approve the content of syllabi and recommend for its implementation.

The syllabus was discussed throughout and finalized.

The meeting was concluded with the permission of Hon. Chairman followed by vote thanks by Dr. M. H. Gajbhiye.

  
Chairman BoS Microbiology

  
  
Principal  
P.A.C. Co-ordinator