

121.2 No 43
KARPAGAM ACADEMY OF HIGHER EDUCATION COIMBATORE – 641 021

BOARD OF STUDIES
MINUTES OF THE MEETING OF BOARD OF STUDIES

2016 – 2017

Minutes of the meeting of board of studies in microbiology held on 28.03.2016 at 10.00 am.

MEMBERS PRESENT:

1. Dr. M. Palanisamy
Dean, FASH & HOD
Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

2. Dr. B. V. Pradeep
Professor, Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

3. Dr. R. Usha
Associate Professor, Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

4. Dr. M. Kulandhaivel
Assistant Professor, Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

5. Dr. K. V. Ashok Raj
Assistant Professor, Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

6. Dr. Thangammenon,
Professor & Head (External Member)
Department of Microbiology,
Madras University, Chennai-05

7. Dr. N. Sivasamy
Director- Technical (External Member)
Synkromax, 118 first floor,
Porur, Chennai-16

8. Dr. R. Raghunath
Scientist (alumni),
Department of Microbiology,
Sriram Institute For Industrial Research,

No 14/15, Sadamangala Industrial Area,
Bangalore-66

9. Ms. R.Nandhinidevi (15MBP002)
I-M.sc Microbiology (Student Representative)
Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

10. Ms. R.Nivetha (14MBU014)
II-B.sc Microbiology (Student Representative)
Department of Microbiology,
Karpagam Academy of Higher Education, Coimbatore -21

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabus / syllabi and after detailed discussion the following resolutions were passed.

Agenda: 1

1. To consider and approve the Regulations and Syllabus for B.Sc Microbiology programme.

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for B.Sc Microbiology programme and it comes into effect from 2016-17 (Approved Regulations and Syllabus given in Annexure-I).

Agenda: 2

1. To consider and approve the Regulations and Syllabus for M.Sc Microbiology programme.

Resolution: 2

1. Resolved to approve the Regulations and Syllabus for M.Sc Microbiology programme and it comes into effect from 2016-17 (Approved Regulations and Syllabus given in Annexure-II).

Agenda: 3

1. To consider and approve the Regulations and Syllabus for M.Phil&Ph.D Microbiology programme.

Resolution: 3

1. Resolved to approve the Regulations and Syllabus for M.Phil&Ph.D Microbiology programme and it comes into effect from 2016-17 (Approved Regulations and Syllabus given in Annexure-III).

Bsc Microbiology syllabus has been prepared according to UGC model curriculum and UGC regulation. Choice Based Credit System take into account for the preparation of syllabus for

BSc Microbiology. All the courses were prepared based on the employability, entrepreneurship and skill development.

Here all the courses are new courses.

In addition to the UGC model curriculum we have added few topics in different courses of BSc Microbiology 2016-2017.

Suggestion given by members to improve the syllabus to meet the present and future challenges in the field are follows.

The Board passes the syllabus for BSc Microbiology, MSc Microbiology, M.Phil & PhD Microbiology.

B.sc Microbiology and curriculum & syllabus has been prepared according to UGC model curriculum and UGC regulations.

Choice based credit system take into account for the preparation of syllabus for B.sc Microbiology.

In addition to the UGC model curriculum we have added few topics in different courses of B.sc Microbiology 2016-2017.

The board passes the syllabus for B.sc Microbiology, M.sc Microbiology.

The curriculum and credits were approved as such for the academic year 2016-2017.

The following changes are made in the syllabus.

B.Sc. MICROBIOLOGY:

1. Introduction to Microbiology and Microbial Diversity (16MBU101) Alxepolous classification has been included.

2. Method of study has to be included in the Bacteriology 16MBU102- unit II (Under Non Cultural Bacteria Include 100°C Below 100°C & Above 100°C Under Physical Methods of Microbial Control).

3. Immunization schedule added –virology Exp-10-Quadrant, continuous & T-streaking included under method of streaking. Exp-11 agar slants & deeps, mineral oil, glycerol stocks were added under the preservation – Bacteriology Practical.

4. Microbial Quality Control in Food and Pharmaceutical Industries (16MBU304A) Sampling procedures for food, water, and air, membrane filtration, lot agglutination precipitation has been included.

5. Microbial Biotechnology (16MBU503) added patenting fundamental requirements - patent multicellular organisms, IPR.

Bsc Microbiology programme consist of 60 number of courses. Syllabus completed followed from UGC model curriculum. Replaced with all new courses. The percentage of syllabus changes in the 2016- 2017 for UG Programme is 100 %.

M.Sc. MICROBIOLOGY:

1. Fundamentals of Microbiology and Classification (16MBP101) Metagenomics and prebiotics has been removed.
2. Microbial Physiology and Metabolism (16MBP102) Cellmembranes has been removed. Cell wall has been included.
3. Molecular Genetics (16 MBP 103) Genetic recombination and Gene mapping has been removed, Gene conversion has been removed.
4. Bioinstrumentation (16MBP 104) Microscopy SEM and TEM has been included, column chromatography has been removed.
5. Basic practical - II (16MBP112) Isolation of Mutants and Revertants has been removed
6. Cell biology (16MBP205A) Difference between prokaryote and eukaryote has been include. Ultra structure of eukaryotic cell has been removed.
7. (16MBP205B) Bioprocess Engineering - Column, hplc and gc chromatography has been included.

Msc Microbiology programme consist of 27 number of courses. There is a syllabus changes in 7 courses. The percentage of syllabus changes in the 2016- 2017 for PG Programme is 25.9%.

M.Phil and Ph.D Syllabi

In Industrial and Pharmaceutical Microbiology "Fermentor design, body construction, oxygen transfer, effect of viscosity, scaleup process" were added in Unit II.

"Downstream process, intracellular and extracellular product separation. Liquid extraction, precipitation and floatation" were shifted from Unit II to Unit III.

The percentage of syllabus changes in the 2016- 2017 for M.Phil and Ph.D Programme is 10 %.

The meeting came to an end with a vote of thanks by the Chair.

Signature of Members

Chairperson



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Department of Microbiology
Faculty of Arts, Science and Humanities
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