

KARPAGAM ACADEMY OF HIGHER EDUCATION COIMBATORE – 641 021

BOARD OF STUDIES
MINUTES OF THE MEETING OF BOARD OF STUDIES

2015-2016

Minutes of the meeting of the Board of Studies in Microbiology (UG, PG) held on 16.04.2015 at 10.00 am in the Microbiology, Department at Karpagam Academy of Higher Education.

MEMBERS PRESENT:

1. Dr. M. Palaniswamy
Dean (i/c), FASH & HOD,
Department of Microbiology,
Karpagam University,
Coimbatore – 21
2. Dr. B. V. Pradeep Assistant
Professor, Department of
Microbiology, Karpagam
University, Coimbatore – 21
3. Dr. R. Usha Assistant
Professor, Department of
Microbiology, Karpagam
University, Coimbatore – 21
4. Dr. R. Balagurunathan
Professor & Head,
Department of Microbiology,
Periyar University,
Salem 636011
Ph: 9443446325
5. Dr. Sooraj S Nath Assistant
Professor, Department of
Microbiology,
Safi Institute of Advance Study (SIAS),
Rasiya Nagar, Vazhyoor East Post,
Ramanattukara 673 633, Kerala.
Ph: 09995917362

The chairperson welcomed the member 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 2015-16 (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 2015-16 (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 2015-16 (Approved Regulations and Syllabus given in Annexure-III).

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

The Board passes the syllabus for Bsc Microbiology, MSc Microbiology, M.Phil& PhD Microbiology and approved the same. (Syllabus enclosed)

The curriculum and syllabus for Microbiology program have been framed as per CBCS pattern. This syllabus is applicable for students admitted during the 2015 – 2016.

The following changes are made in the syllabus.

B.Sc. MICROBIOLOGY:

In all the courses approximately 25 % **changes** have been made with respect to the content of the courses.

S.No	Course code	Course Name	Changes made
1	15MBU101	Introductory Microbiology	Unit IV and V changed
2	15MBU111	Basic Microbiology Practical – I	3 experiments were changed
3	15MBU102	Allied Chemistry – I	Unit IV and V changed
4	15MBU112	Allied Chemistry Practical – I	One experiment was added.
5	15MBU201	Microbial Diversity and Classification	Unit IV and V changed
6	15MBU211	Basic Microbiology Practical – II	2 experiments were changed
7	15MBU202	Allied Chemistry – II	Unit IV and V changed
8	15MBU212	Allied Chemistry Practical – II	One experiment was added.
9	15MBU301	Microbial Physiology	Unit IV and V changed
10	15MBU302	Bioinstrumentation	Unit IV and V changed
11	15MBU311	Advanced Microbiology Practical – III	2 experiments were changed
12	15MBU303	Allied Elective –I Biopharmacy	Unit IV and V changed
13	15MBU312	Allied Elective Practical – I	2 experiments were changed
14	15MBU402	Medical bacteriology	Unit IV and V changed
15	15MBU411	Advanced Microbiology Practical – IV	2 experiments were changed
16	15MBU403	Allied Elective -II	Unit IV and V changed
17	15MBU412	Allied Elective Practical – II	1 experiment added
18	15MBU501	Basic and Clinical Immunology	Unit IV and V changed
19	15MBU502	Virology	Unit IV and V changed
20	15MBU503	Food and Agricultural Microbiology	Unit IV and V changed
21	15MBU504	Environmental Microbiology	Unit IV and V changed
22	15MBU505	Core Elective – I	2 experiments were changed
23	15MBU601	Industrial Microbiology	Unit IV and V changed
24	15MBU602	Microbial Technology and Intellectual	Unit IV and V changed

		Property Rights	
25	15MBU603	Core Elective – II	Unit IV and V changed
26	15MBU611	Application Oriented Practical – VI	2 experiments were changed

In addition to this the following changes have been made.

1. 15MBU101(Introductory Microbiology) – removed Eukaryotic cell – cell wall, plasma membrane, organelles. Structure of yeast.

2. 15MBU311(Advance Microbiology Practical – III) – removed Isolation of Halophiles, Isolation of Thermophiles, Litmus Milk reduction test, Lipid, Utilization of amino acids – Phenylalanine deaminase test.

3. 15MBU411 (Advance Microbiology Practical – IV) – Added : Identification of major bacterial pathogens – *E. coli*, *Klebsiella*, *Proteus*, *Salmonella*, *Shigella*, *Pseudomonas*, *Staphylococcus aureus*, *Streptococcus pyogenes*, Preparation of Antibiotic Disc, Antibiotic Sensitivity Test – Disc Diffusion Method.

4.15MBU411 (Advance Microbiology Practical – IV) – Removed Induction of Lac operon, Isolation of microorganism from air, Isolation of microorganism from water, Bacteriological examination of water by multiple tube technique, Estimation of dissolved oxygen of water, Estimation of BOD. Estimation of COD, Demonstration of waste.treatment plant, demonstration of composting, Isolation of microorganism from soil.

5. 15MBU511 (Application Oriented Practical – V) – Added Induction of Lac operon, Isolation of microorganism from air, Isolation of microorganism from water, Bacteriological examination of water by multiple tube technique, Estimation of dissolved oxygen of water, Estimation of BOD. Estimation of COD, Demonstration of waste treatment plant, demonstration of composting, Isolation of microorganism from soil.

6. 15MBU511 (Application Oriented Practical – V) - Removed Identification of major bacterial pathogens – *E. coli*, *Klebsiella*, *Proteus*, *Salmonella*, *Shigella*, *Pseudomonas*, *Staphylococcus aureus*, *Streptococcus pyogenes*, Preparation of Antibiotic Disc, Antibiotic Sensitivity Test – Disc Diffusion Method.

Bsc Microbiology programme consist of 41 number of courses. Out of which 13 are language, open elective and other general course. There is a syllabus changes in 28 courses. The percentage of syllabus changes in the 2015- 2016 for UG Programme is 100%.

M.Sc. MICROBIOLOGY:

1.15MBP202 (Medical Bacteriology) – Removed - Infections – type – methods – infectious disease cycle. Quality control in Microbiology lab and added to Unit – II, Added Nosocomial infection – Urinary tract infection, Respiratory tract infection, Sexually transmitted disease – Immunoprophylaxis – Vaccines and antibiotics.- Phage typing and bacteriocin typing.Gram negative organisms: Morphology, cultural characteristics, antigenic property, pathogenicity, laboratory diagnosis and treatment. *E.coli*, *Klebsiella* sp., *Proteus* sp., *Pseudomonas* sp., *Vibrio* sp., *Salmonella* sp., *Shigella* sp., *Treponema* sp., *Neisseria* sp. and *Haemophilus* sp.

2. 15MBP204B (Computer Application and Bioinformatics) – Added Information networks-internet, web browsers, HTTP,HTML and URLs. EMBnet – NCBI, Virtual tourism. Introduction to Operating systems like Windows, UNIX & LINUX - Computer Viruses – Overview and prevention.

3. 15MBP306 (Cell Biology) – Added Cell- Definitions and properties, cell theory. Ultra structure of eukaryotic cell - plant and animal. Bacterial cell wall structure and composition and their functions.Plasma membrane - structure and functions. Transportation – types and methods. Role of microtubules and microfilaments. Meiosis - properties and significance, Phases of meiosis and Cellular aging.

Msc Microbiology programme consist of 30 number of courses. There is a syllabus changes in 03 courses. The percentage of syllabus changes in the 2015- 2016 for PG Programme is 10%.

M.Phil and Ph.Dprogramme

Total number of courses present during the year 2014-15 =9

Total number of courses present during the year 2015-16 =6

Percentage change in the syllabi = 33.3%

Chair person



Head of the Department
Department of Microbiology
Faculty of Arts, Science and Humanities
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REGISTRAR
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