

MINUTES OF THE MEETING OF BOARD OF STUDIES

DEPARTMENT OF MICROBIOLOGY

A meeting of the Board of Studies in Microbiology was held on Tuesday, 3rd September, 2019 at 2.30 p.m. in II B.Sc Microbiology Class room. The meeting was started with prayer and Dr. P. Saranraj welcomed the gathering with his warm words.

MEMBERS PRESENT

Chair Person Dr. P. Saranraj

Members Dr. K. Amala
Dr. R. Bright
Ms. Neethu Asokan

Student Members

A. Musharath (BU171503)
D. Tamilselvan (BU171504)
R. Asweshwaran (BU171511)
P. Jayashri (BU171549)
R. Nisha (BU181504)
P. Ganesh (BU181508)
S. Tanuja (BU181549)
Lungu Greenwell (BU181550)

Agenda

- 1) To review the complete syllabus of Theory and Practical papers of B.Sc. Microbiology programme for the students who admitted during the academic year 2017 - 2019.

Resolutions

- 1) The merits and demerits of the syllabus were discussed regarding the content and subject.
- 2) The syllabus was considered to alter to enhance the sharpness and quality.
- 3) Owing to the alteration, it was resolved to make the following changes in syllabus:
 - a) In Fundamentals of Microbiology; Unit I - Branches and Scope of Microbiology was set on to add instead of Scope, Branches and Future of Microbiology; D. Ivanowsky in the list of Scientist and Contribution of Indian scientists to Microbiology were decided to be added. Golden age of Microbiology was resolute to be removed. Unit IV - The headings chemical method and Biological method were decided to be added. Unit V - The topic

heading ‘Culture techniques - Agar slants, Agar deeps, Broth culture and Culture medium’ was decided to be renamed as Culture medium and its types.

- b) In Microbial Diversity and Classification; Unit I - the addition of four kingdom, six kingdom, seven and eighth kingdom classification was decided and change Genetic and Intraspecies Classification to Phylogenetic Classification. Unit II - Addition of Microscopic examination of fungi. Culture medium for fungal cultivation. Unit III - Addition of Microscopic examination of algae. Culture medium for Algal cultivation. Unit IV - Addition of Microscopic examination of Protozoa and Virus. Culture medium for Protozoa cultivation. Unit V - It was decided to remove Flow cytometry and replaced to Bioinstrumentation subject.
- c) In Microbial Physiology and Metabolism; Unit IV - The headings ‘Biosynthesis of Bacterial cell wall, Purines, Pyrimidines, Amino acids and Fatty acids’ was settled to be changed to Biosynthesis of Bacterial cell wall polysaccharides, Nucleic acids (Purines and Pyrimidines), Amino acids and Lipids (Glycerol and Fatty acids).
- d) In Bioinstrumentation, it was decided to add Flow cytometry in Unit I.
- e) Microbial Genetics and Molecular Biology & Genetic Engineering was decided to be clubbed and renamed as Molecular Microbiology.
- f) In Virology, it was decided to add Nipah Virus to Unit IV under heading Paramyxoviridae
- g) Elective – Health Care & Hygiene Practices and Computational Biology was decided to be removed and replaced with Marine Biotechnology and Veterinary Microbiology.
- h) Microbial Biotechnology was decided to be fully revised and renamed to Microbial Biotechnology and Nanotechnology
- i) Environmental Microbiology; Unit III - Bioaccumulation and Biomagnification; Physico-chemical parameters were outlined to be added.

SIGNATURE OF THE MEMBERS

S.NO	NAME	MEMBERS	SIGNATURE
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1	Dr. P. Saranraj	Chair Person	
2	Dr. K. Amala	Board Member	
3	Dr. R. Bright	Board Member	
4	Ms. Neethu Asokan	Board Member	
5	A. Musharath	Student Members	
6	D. Tamilselvan	Student Members	
7	R. Asweshwaran	Student Members	
8	P. Jayashri	Student Members	
9	R. Nisha	Student Members	
10	P. Ganesh	Student Members	
11	S. Tanuja	Student Members	
12	Lungu Greenwell	Student Members	

MINUTES OF THE MEETING OF BOARD OF STUDIES

DEPARTMENT OF MICROBIOLOGY

A meeting of the Board of Studies in Microbiology was held on Saturday, 25th January, 2020 at 2.30 p.m. Board Room. The BOS meeting was started with prayer and Dr. P. Saranraj welcomed the gathering with his warm words.

MEMBERS PRESENT

University Nominee

Dr. A. Vidhya
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Subject Expert

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Industrialist

Dr. J. Subburaj,
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Exonn Biosciences,
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Chair Person

Dr. P. Saranraj

Members

Dr. K. Amala
Dr. R. Bright
Ms. Neethu Asokan

Student Members

A. Musharath (BU171503)
R. Asweshwaran (BU171511)

Agenda

- 2) To review the complete syllabus of Theory and Practical papers of B.Sc. Microbiology programme for the students who admitted during the academic year 2017 - 2019.

Resolutions

- 1) It was resolved to incorporate “R programming” in the syllabus.
- 2) Evolutionary Microbiology was discussed to be a Unit for First semester
- 3) Exposure to Fermentor operation and Sequencing skills were discussed to be incorporated.
- 4) A start-up unit will be converted to be setup for Biofertilizer production and Mushroom cultivation for revenue.
- 5) History of Microbiology in Unit I of MB101 was conferred to be separated from scope and recent developments as two different topics. Future of Microbiology was decided to be included as last topic.
- 6) *Spirulina* and *Azolla* cultivation was discussed to be included in Practical paper.
- 7) Unit - V of MB101 was discussed to be reduced by transferring two topics to Bioinstrumentation - MB202.
- 8) It was planned to introduce Agricultural Microbiology and Plant Diseases as Subjects in the syllabus.
- 9) The Subject Computational Biology will be renamed to Bioinformatics and Computational Biology.
- 10) The two self-study course subjects were decided to incorporate ASRB NET syllabus and renamed as Comprehensive Microbiology I and Comprehensive Microbiology II.
- 11) The subject Microbial Biotechnology will be renamed to Nanotechnology and Microbial Biotechnology.
- 12) It was decided to include physio-chemical parameters, Energy flow in Terrestrial and Aquatic ecosystem, Food chain and Food web.
- 13) Blood cell count, KOH wet mount, Antifungal sensitivity test and Immunoelectrophoresis was decided to incorporate in the Practical paper.

SIGNATURE OF THE MEMBERS

S.NO	NAME	MEMBERS	SIGNATURE
1	Dr. A. Vidhya	University Nominee	
2	Dr. P. Sivasakthivelan	Subject Expert	
3	Dr. J. Subburaj	Industrial Expert	
4	Dr. P. Saranraj	Chair Person	
5	Dr. K. Amala	Board Member	
7	Dr. R. Bright	Board Member	
8	Ms. Neethu Asokan	Board Member	
9	A. Musharath	Student Representative	
10	R. Asweshwaran	Student Representative	