

MINUTES OF THE MEETING OF BOARD OF STUDIES

DEPARTMENT OF MICROBIOLOGY

M.Sc Applied Microbiology

A meeting of the Board of Studies in Microbiology was held on 15.12.2020 at 11.00 a.m. in Google meet platform. The BOS meeting was started with prayer and Dr. P. Saranraj welcomed the gathering with his warm words.

MEMBERS PRESENT

Subject Expert I

Dr. K. Kolanjinathan
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Subject Expert II

Dr. P. Sivasakthivelan
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Industrialist

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Technical Coordinator,
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Chair Person

Dr. P. Saranraj

Members

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

Meritorious Alumni

Mr. V. Rakesh
I M.Sc Microbiology, Department of Microbiology,
Muthayammal College of Arts and Science,
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Agenda

- To review the First year syllabus (Semester I and Semester II) of Theory and Practical papers of M.Sc. Applied Microbiology programme.

Resolutions

- 1) The merits and demerits were discussed regarding the content and subject.
- 2) Owing to the alterations, it was resolved to make the following changes in the syllabus
 - In General Microbiology and Microbial Diversity course, the unit Microscopes was decided to be moved to Microbial Instrumentation course.
 - In General Microbiology and Microbial Diversity course, the unit Molecular Identification of Microorganisms was decided to be moved to Molecular Microbiology course.
 - In General Microbiology and Microbial Diversity course, it was decided to include Slide culture technique, Fungal staining techniques and Protozoan staining technique.
 - The Web references were recommended to be further reviewed for authenticity.
 - It was also recommended to include the Preparation of McFarland standards in Unit II of Microbial Physiology and Metabolism course.
 - It was advised to include Bioluminescence and Quorum sensing in Unit – V of Microbial Physiology and Metabolism course.
 - The topics B – cell receptors and T – cell receptors are recommended to include in Unit – II of Immunology course.
 - The topic Western Blotting was recommended to include in Unit – IV of Immunology course.
 - It was decided to include the topic Detection and Isolation of Mutants – Replica plating, Mutant selection and Ames test in Unit – II of Molecular Microbiology course.
 - In Microbial Instrumentation course, the Unit – II (Microscopy) was decided to be moved to Unit - I.

- It was advised to include the topic Rejection criteria for clinical samples and Labelling of Clinical samples in Medical Bacteriology course.
- It was suggested to change Virology course title to Medical Virology and also Covid-19 and MERS under Coronavirus.
- It was also suggested to add KOH wet mount in General and Medical Microbiology Practical.
- It was also decided to include MIC, MBF and MFC in General and Medical Microbiology Practical.
- In all the courses, it was decided to include a topic Current Research Thoughts under Unit - V.

SIGNATURE OF THE MEMBERS

| S.NO | NAME | MEMBERS | SIGNATURE |
|------|------------------------|--------------------|---------------------|
| 1 | Dr. K. Kolanjinathan | Subject Expert I | K. Kollan |
| 2 | Dr. P. Sivasakthivelan | Subject Expert II | Sivasakthivelan, P. |
| 3 | Dr. N. Sriram | Industrial Expert | N. Sriram |
| 4 | Mr. V. Rakesh | Meritorious Alumni | V. Rakesh |
| 5 | Dr. P. Saranraj | Chair Person | P. Saranraj |
| 7 | Dr. K. Amala | Board Member | Amala |
| 8 | Dr. R. Bright | Board Member | Bright |
| 9 | Dr. Neethu Asokan | Board Member | Neethu Asokan |

MINUTES OF THE MEETING OF BOARD OF STUDIES

DEPARTMENT OF MICROBIOLOGY

M.Sc Applied Microbiology

A meeting of the Board of Studies in Microbiology was held on Thursday, 15th April, 2021 at 5.30 p.m. in Google meet platform. The BOS meeting was started with prayer and Dr. P. Saranraj welcomed the gathering with his warm words.

MEMBERS PRESENT

Subject Expert I

Dr. K. Anandaraj
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Tiruvannamalai.
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Subject Expert II

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Industrialist

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Chair Person

Dr. P. Saranraj

Members

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

Meritorious Alumni

Mr. D. Tamilselvan
I M.Sc Microbiology, Department of Microbiology,
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Salem, Tamil Nadu, India
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Student Members

Ms. A. Sudha (BU181510)

Ms. S. Tanuja (BU181549)

Agenda

- To review the Full syllabus of Theory and Practical papers of M.Sc. Applied Microbiology programme.

Discussion and Suggestions

- The merits and demerits were discussed regarding the content and subject.
- Owing to the alterations, it was resolved to make the following changes in the syllabus
 - ✓ To reduce volume of Semester I papers.
 - ✓ To add Kreb's cycle in Microbial Physiology and Metabolism
 - ✓ To add FTIR and Next Generation Sequencing techniques in Bioinstrumentation.
 - ✓ It was also suggested to add more of application-level techniques.
 - ✓ It was discussed to move the Lymphoid organs topic in Immunology paper before the Cells of Immune system.
 - ✓ It was also discussed to add Cytokine storm in Immunology paper.
 - ✓ Suggested to add Lichen in Algal Biotechnology.
 - ✓ It was resolve to add the microorganism involved in Zinc, Phosphate, Potassium and Silicate solubilization in Bioinoculant Technology.
 - ✓ To add Microbiome in Environmental Microbiology.
 - ✓ To change the sequence of title in unit to Contamination, Spoilage and Preservation in Food Microbiology.
 - ✓ To add Blood cell count and PCR experiments in Practical
 - ✓ To add Algal bioinoculant production - *Azolla* and BGA in Bioinoculant practical.

Resolutions

- It was resolved to adopt the following syllabus pertaining to curriculum of Sacred Heart College, subject to approval of the course by the Thiruvalluvar University.
- Internship and Online certificate courses (NPTEL/MOOCs/Other Short term courses) were included in the additional credit category.
- Resolved to recommend the list of panel members for Question paper setting and Evaluation.

SIGNATURE OF THE MEMBERS

| S.NO | NAME | MEMBERS | SIGNATURE |
|------|------------------------|------------------------|--------------------|
| 1 | Dr. K. Anandaraj | Subject Expert I | K. Anandaraj. |
| 2 | Dr. P. Sivasakthivelan | Subject Expert II | P. Sivasakthivelan |
| 3 | Dr. J. Subburaj | Industrial Expert | J. Subburaj |
| 4 | Mr. D. Tamilselvan | Meritorious Alumni | D. Tamilselvan. |
| 5 | Dr. P. Saranraj | Chair Person | P. Saranraj |
| 7 | Dr. K. Amala | Board Member | Amala |
| 8 | Dr. R. Bright | Board Member | Bright. R |
| 9 | Dr. Neethu Asokan | Board Member | Neethu Asokan. |
| 10 | Ms. A. Sudha | Student Representative | A. Sudha |
| 11 | Ms. S. Tanuja | Student Representative | S. Tanuja |