



Anekant Education Society's

Tuljaram Chaturchand College
of Arts, Science, Commerce, Baramati
(Autonomous)

DEPARTMENT OF MICROBIOLOGY

(Faculty of Science and Technology)

Minutes of Board of Studies Meeting No.6

Date of Meeting: 06/10/2022

Venue: Department of Microbiology

October, 2022



Anekan Education Society's
Tuljaram Chaturchand College, Baramati
Department of Microbiology

NOTICE

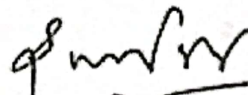
Date: - 03/10/2022

An Online meeting of BOS members of Microbiology is scheduled on 06th Oct. 2022 at 12.30 onwards. All BOS members are requested to attend the meeting.

The agenda of meeting is as follows.

1. To confirm the minutes of the previous meeting held on 09/03/2022.
2. Restructuring of the syllabus for F.Y.B.Sc. -Sem II (2022 pattern).
3. To design the syllabus of T.Y.BSc elective courses (2022 Pattern).
4. Restructuring of the syllabus for MSc-I Sem II 2022 pattern.
5. To design the syllabus of Credit Course for M.Sc. I (2022 Pattern).
6. To discuss and incorporate the relevant feedbacks of the stakeholders (Students, Teachers, Parents, alumni, and employers) in the curriculum.
7. Any other matter with the permission of the chair.

Yours faithfully



Dr. S. T. Pawar
Chairman BOS in Microbiology.



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Department of Microbiology

AGENDA OF THE MEETING

The agenda of the meeting included the following subjects:

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List of Members Present for the BOS Meeting

The following internal and external BOS members has attended the Board of Studies

Sr.No.	Name of Member	Designation
1.	Dr. Sunil Pawar Associate Professor, Department of Microbiology, T. C. College, Baramati.	Chairman
2.	Dr. Milind Gajbhiye Associate Professor, Department of Microbiology, T. C. College, Baramati.	Member
3.	Dr. Mrs. Yogini Mulay Associate Professor, Department of Microbiology, T. C. College, Baramati.	Member
4.	Mr. Dhaval Doshi Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
5.	Ms. Komal Jagtap Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
6.	Ms. Priti Bhosale Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
7.	Dr. T. A. Kadam	Expert from other University
8.	Ms. Chaitrali Pathak	Student representative
9.	Ms. Prajakta Markale	Student representative

(Microbiology) meeting held on 6th October, 2022.



MINUTES OF THE MEETING

Concerning the Notice dated 3rd October, 2022, issued by the college, the meeting of Board of Studies in Microbiology was held on 6th October, 2022 at 11:30 am in the Department of Microbiology, T. C. College, Baramati. The meeting was conducted adhering to the guidelines and protocols set by the college. Dr. S.T. Pawar, Chairman, BoS welcomed the members and presented the agenda of meeting.

1. To confirm the minutes of the BOS meeting held on 09/03/2022.

Dr. M. H. Gajbhiye read the minutes of the BOS meeting held on 09/03/2022 and put forward to the BOS members for the approval.

Resolution No. 1: The minutes of the previous Board of Studies meeting were approved and confirmed.

2. Restructuring of the syllabus for F.Y.B.Sc. - Sem II (2022 pattern).

The basic draft of the syllabus of F.Y.B.Sc. Sem II- USMB121: INTRODUCTION TO MICROBIOLOGY II, USMB122: BASIC TECHNIQUES IN MICROBIOLOGY II was presented by Dr. Gajbhiye and Ms. Priti Bhosale. The draft of practical course, USMB123 was presented by Ms. Priti Bhosale. The syllabi were approved during the last BoS meeting, however, the suggestions received from the students of SYBSc and TYBSc were considered and the syllabus was finalized. The suggestions received are as follows:

- i. inclusion of more categories of bacteria in papers I
- ii. Remove construction part in electron microscopy in paper II.

The syllabus was discussed meticulously and the curriculum of the following courses was finalized as shown below.

Course structure for F.Y.B.Sc Microbiology (2022 pattern)

Class	Pattern	Semester	Course Code	Course Title	Course Type	Number of Credits
F.Y.B.Sc.	2022	II	USMB121	Introduction to Microbiology II	Theory	2
F.Y.B.Sc.	2022	II	USMB122	Basic Techniques in Microbiology I	Theory	2
F.Y.B.Sc.	2022	II	USMB123	Practical course I	Practical	2



						Total= 6
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The student's feedback was collected from the alumni and students were incorporated in the syllabus.

Resolution No. 2: The syllabus and academic framework of FYBSc (2022 Pattern) has been unanimously approved by all members of the BOS.

3. To design the syllabus of T.Y.B.Sc elective courses (2022 Pattern).

The basic draft of the syllabus of TYBSc theory elective courses, SEM V MICRO35010 MICROBIAL TECHNOLOGY and SEM VI MICRO36010 NANOBIOTECHNOLOGY was discussed among the members and finalized. The suggestions received from the students were considered before the finalization of syllabi. This syllabus was sent by E-mail to all the members of BoS, fifteen days before the scheduled BoS meeting.

The syllabus was discussed meticulously and the curriculum of the following courses was finalized altogether as shown below.

Course structure for T.Y.B.Sc Microbiology (2019 pattern)

Class	Pattern	Semester	Course Code	Course Title	Course Type	Number of Credits
T.Y.B.Sc.	2019	V	MICRO3501	Medical Microbiology I	Theory	3
T.Y.B.Sc.	2019	V	MICRO3502	Genetics and Molecular Biology I	Theory	3
T.Y.B.Sc.	2019	V	MICRO3503	Enzymology	Theory	3
T.Y.B.Sc.	2019	V	MICRO 3504	Immunology-I	Theory	3
T.Y.B.Sc.	2019	V	MICRO3505	Fermentation Technology-I	Theory	3
T.Y.B.Sc.	2019	V	MICRO3506	Food and Dairy Microbiology and	Theory	3
T.Y.B.Sc.	2019	V	MICRO35010	Microbial Technology	Theory (Elective course)	2
T.Y.B.Sc.	2019	V	MICRO3507	Applied Microbiology	Practical	2
T.Y.B.Sc.	2019	V	MICRO3508	Biochemistry	Practical	2
T.Y.B.Sc.	2019	V	MICRO3509	Clinical Microbiology	Practical	2
T.Y.B.Sc.	2019	V	MICRO3509	Clinical Microbiology	Practical	2



						Total= 28
T.Y.B.Sc.	2019	VI	MICRO3601	Medical Microbiology II	Theory	3
T.Y.B.Sc.	2019	VI	MICRO3602	Genetics and Molecular Biology II	Theory	3
T.Y.B.Sc.	2019	VI	MICRO3603	Metabolism	Theory	3
T.Y.B.Sc.	2019	VI	MICRO 3604	Immunology-II	Theory	3
T.Y.B.Sc.	2019	VI	MICRO3605	Fermentation Technology-II	Theory	3
T.Y.B.Sc.	2019	VI	MICRO3606	Agricultural and Environmental Microbiology	Theory	3
T.Y.B.Sc.	2019	VI	MICRO36010	Nano-biotechnology	Theory (Elective course)	2
T.Y.B.Sc.	2019	VI	MICRO3607	Biochemistry and Molecular Biology	Practical	2
T.Y.B.Sc.	2019	VI	MICRO3608	Haematology and Diagnostic Immunology	Practical	2
T.Y.B.Sc.	2019	VI	MICRO3609	Project	Project	2
						Total= 26
						Grand total= 54

Class	Pattern	Semester	Course Code	Course Title	Course Type	Number of Credits
T.Y.B.Sc.	2019	V	MICRO35010	Microbial Technology	Theory (Elective course)	2
T.Y.B.Sc.	2019	VI	MICRO36010	Nano-biotechnology	Theory (Elective course)	2
						Total= 4

Resolution No. 3: The syllabus and academic framework of TYBSc (2019 Pattern) has been unanimously approved by all members of the BOS.

4. To design the syllabus of M.Sc.-I Sem-II (2022 Pattern).

This syllabus was approved in the last BoS meeting however; its restructuring was done during the present meeting. While restructuring the syllabus of MSc I Sem II, feedback from the MSc II students was collected and following discussion, appropriate changes and inclusions have been made in the syllabus. The basic draft of the syllabi of MSc I Sem II,



PSMB121: VIROLOGY, PSMB122: INSTRUMENTATION, PSMB123: METABOLISM, PSMB124: EVOLUTION AND ECOLOGY, PSMB125: BIOPHYSICS AND VIROLOGY, PSMB126: ENZYMOLOGY AND MICROBIAL METABOLISM were presented by Mr. D.V. Doshi, Ms. Komal Jagtap. The syllabi were discussed among members and finalized. The suggestions received are as follows:

- i. Add atomic spectroscopy in PSMB122
- ii. Include the effect of substrate concentration on enzyme kinetics in PSMB123.

Course structure for M.Sc-I Microbiology Sem-II (2022 pattern)

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
M.Sc.	2022	II	PSMB121	Virology	Theory	4
M.Sc.	2022	II	PSMB122	Instrumentation	Theory	4
M.Sc.	2022	II	PSMB123	Metabolism	Theory	4
M.Sc.	2022	II	PSMB124	Evolution and Ecology	Theory	4
M.Sc.	2022	II	PSMB125	Practical Course: Biophysics & Virology	Practical	4
M.Sc.	2022	II	PSMB126	Practical Course: Enzymology & Microbial Metabolism	Practical	4
						Total= 24

The student's feedback was collected from the alumni and students were incorporated in the syllabus.

Resolution No. 4: The syllabus and academic framework of M.Sc. (2022 Pattern) has been unanimously approved by all members of the BOS.

5. To design the syllabus of credit course – CC029 (Certificate course in Research Methodology) for M.Sc. I (2022 Pattern).

The basic draft of the syllabus of the credit course- CC029 (certificate course in Research Methodology) for MSc I was presented by Prof ST Pawar. The syllabus was discussed among members and finalized. Prof. Dr. TA Kadam suggested MPTL online credit courses for the students as a part to earn 2 credits.

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
M.Sc.	2022	I	CC029	Research Methodology	Certificate Course	2



Resolution No. 5: The syllabus of certificate course has been unanimously approved by all members of the BOS.

6. To discuss and incorporate the relevant feedbacks of the stakeholders (Students, Teachers, Parents, alumni, and employers) in the curriculum.

➤ **Feedback received for syllabus of F.Y.B.Sc Sem-II (2022 pattern).**

From Students: The limited number of courses in this semester allows students to focus on core concepts without feeling overwhelmed.

From Teachers: The syllabus is straightforward, making it easy to plan and deliver content effectively.

From Parents: The limited number of courses may appeal to parents who appreciate a focused and manageable workload for their children.

From Alumni: The syllabus seems to cover fundamental concepts, which could serve as a strong foundation for advanced studies or careers. Practical courses are valuable for alumni who understand the importance of hands-on experience.

From Employers: The practical course provides students with hands-on experience, which could be valuable for future employers. The concise nature of the syllabus may appeal to employers looking for graduates with a strong foundational understanding of microbiology.

➤ **Feedback receive for syllabus of T.Y.B.Sc (2022 pattern)elective courses (2022 Pattern).**

Both Electives: (Microbial Technology (MICRO35010)&Nano-biotechnology (MICRO36010):

From Student:Providing information on how these electives contribute to future career paths or advanced studies can guide students' decisions.

From Teacher: Regularly reviewing and updating elective courses based on emerging trends ensures that the curriculum remains relevant.

From Parent: Parents appreciated information on the industry relevance of these electives and how they contribute to their child's skill development.

From Alumni:Who have taken these electives can provide insights into their impact on career paths.

From Employer:Employers interested in graduates with specialized knowledge in microbial technology and nano-biotechnology.Collaborating with industry partners for internships or projects can strengthen the link between these electives and real-world applications.

➤ **Feedback receive for syllabus M.Sc Sem-II(2022 pattern).**

From Students:The variety of courses in virology, instrumentation, metabolism, evolution, and ecology provides students with a comprehensive understanding of molecular biology.

From Teachers: The syllabus appears well-structured, with a mix of theoretical and practical courses, providing teachers with opportunities to employ diverse teaching methods.



From Parents: Parents appreciated the practical nature of the courses, as it aligns with potential career paths in research, biotechnology, or academia.

From Alumni: Practical courses beneficial, as they mirror real-world scenarios and contribute to the development of practical skills. The inclusion of courses like Virology, Instrumentation, Metabolism, and Evolution and Ecology suggests a well-rounded curriculum with relevance to various biological fields.

From Employers: Employers appreciated the emphasis on practical courses, indicating that graduates are likely to possess hands-on skills relevant to laboratory work. The diverse range of courses suggests that graduates would have a broad understanding of molecular biology, making them adaptable to various roles in the biotechnology or research sectors.

➤ **Feedback receive for syllabus of credit course – CC029 (Certificate course in Research Methodology) for M.Sc. I (2022 Pattern).**

From Students: A course on research methodology is crucial for students as it helps in developing essential skills for conducting research, critical thinking, and analyzing data.

From Teachers: The course appears to be focused on a specific aspect (research methodology), allowing for in-depth coverage and meaningful engagement with students.

From Parents: The inclusion of a course that focuses on research methodology as it is essential for their child's future career, especially if they plan to pursue further studies or a research-oriented profession.

From Alumni: The addition of a research methodology course as a positive development, recognizing the importance of such skills in their professional journeys. If the certificate holds value in the job market or academia, alumni might find it beneficial for showcasing their expertise.

From Employers: Employers viewed a research methodology course as a positive indicator that graduates have acquired essential skills for conducting and understanding research, which can be valuable in various professional settings. The fact that it is a certificate course may be seen as an additional credential, indicating a formal recognition of the student's research capabilities.

Resolution No. 6: Feedback was collected by the entire stakeholder & was incorporated in the syllabus.

All the BoS members discussed the syllabus throughout and approved it after the inclusion of appropriate comments. Also, the students' feedback was collected, and appropriate suggestions were incorporated in the syllabus

The meeting was concluded with the permission of Hon. Chairman followed by vote thanks by Prof MH Gajbhiye.



[Signature]

Coordinator

Internal Quality Assurance Cell
Tuljaram Chaturghat College of
Arts, Science and Commerce,

Coordinator

[Signature]

Principal

Tuljaram Chaturghat College
Baramati

Principal

[Signature]

Chairman

Board of Studies

Department of Microbiology

