



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. 10**

**Date of Meeting: 13/03/2024**

**Venue: Department of Microbiology**

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**March, 2024**

Anekant Education Society's  
Tuljaram Chaturchand College of Art's, Science &  
Commerce, Baramati.

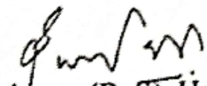
Department of Microbiology

## NOTICE

Date: - 07/03/2024

*A meeting of BOS members of Board of Studies in Department of Microbiology is scheduled on Wednesday 13<sup>th</sup> March, 2024 at 11.30am to 5.00pm. All are requested to attend the meeting through online or offline mode. Please find attached herewith the agenda of the meeting.*

Venue:- Microbiology lab-1

  
Chairman (BoS), Head  
Dept. of Microbiology

  
IQAC  
Coordinator

  
Principal

Anekant Education Society's  
Tuljaram Chaturchand College, Baramati  
(Autonomous)

Department of Microbiology

AGENDA OF THE MEETING

The agenda of the meeting included the following subjects:

Agenda of Meeting:

1. To confirm the minutes of the previous meeting held on 23/10/2024
2. To design and approve curriculum of TYBSc Semester V (2022 pattern) to be implemented from academic year 2024 - 2025.
3. To design and approve the course credit structure of SYBSc and MSc II as per NEP 2020 (2023 Pattern)
4. To design and approve curriculum of SYBSc Semester III (2023 pattern as per NEP 2020) to be implemented from the academic year 2024 – 2025
5. To design an approved curriculum of MSc II Semester III (2023 pattern as per NEP 2020) to be implemented from the academic year 2024 – 2025
6. To discuss and incorporate the relevant feedback of the stakeholders (students, teachers, parents, alumni and employees) in the curriculum
7. Any other issue with the permission of the chair

**List of Members Present for the BOS Meeting**

A meeting of BoS members in Microbiology was conducted through hybrid mode on 13<sup>th</sup> March 2024.

The following members attended the meeting through offline mode:

Sr. No.	Name of Member	Designation
1.	<b>Dr. Sunil Pawar</b> Professor, Head, Department of Microbiology, T. C. College, Baramati.	Chairman
2.	<b>Dr. Milind Gajbhiye</b> Professor, Department of Microbiology, T. C. College, Baramati.	Member
3.	<b>Dr. Mrs. Yogini Mulay</b> Professor, Department of Microbiology, T. C. College, Baramati.	Member
4.	<b>Mr. Dhaval Doshi</b> Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
5.	<b>Ms. Komal Jagtap</b> Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
6.	<b>Ms. Priti Bhosale</b> Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
7.	<b>Ms. Chaitrali Pathak</b>	Student representative
8.	<b>Ms. Prajakta Markale</b>	Student representative
The following members attended the meeting through online mode:		
9.	<b>Dr. Snehal Kulkarni</b>	Expert from SPPU

## MINUTES OF THE MEETING

Concerning the Notice dated 7<sup>th</sup> March 2024, issued by the college, the meeting of Board of Studies in Microbiology was held on 13<sup>th</sup> March 2024 at 11.30 am in the Department of Microbiology, T. C. College, Baramati. This meeting of BoS members in Microbiology was conducted through hybrid mode. 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 23<sup>rd</sup> Oct 2023.

Dr. M. H. Gajbhiye read the minutes of the BOS meeting held on 23<sup>rd</sup> October 2023 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. To design and approve curriculum of TYBSc Semester V (2022 Pattern) to be implemented from the academic year 2024-2025

The preliminary draft of the syllabus of TYBSc Semester V (2022 Pattern) was prepared by Prof. ST Pawar, Prof. MH Gajbhiye, Prof. YR Mulay, Mr. Dhaval Doshi, Ms. Priti Bhosale, Miss PN Kamble and Ms. NT Deokate. The syllabus was also sent by mail to all the members of BoS.

The syllabus was presented by Prof. MH Gajbhiye and after discussion the syllabus of the following courses was finalized:

Sr. No.	Class	Semester	Code	Paper	Paper Title	Credit	Marks (I+E)
1	T.Y.B.Sc.	V	USMB351	Theory	MEDICAL MICROBIOLOGY-I	3	40+60
2	T.Y.B.Sc.	V	USMB352	Theory	GENETICS AND MOLECULAR BIOLOGY-I	3	40+60
3	T.Y.B.Sc.	V	USMB353	Theory	ENZYMOLGY	3	40+60
4	T.Y.B.Sc.	V	USMB354	Theory	IMMUNOLOGY - I	3	40+60
5	T.Y.B.Sc.	V	USMB355	Theory	FERMENTATION TECHNOLOGY-I	3	40+60
6	T.Y.B.Sc.	V	USMB356 A	Elective Theory Paper I	FOOD AND DAIRY MICROBIOLOGY	3	40+60
7	T.Y.B.Sc.	V	USMB356 B	Elective Theory Paper II	MICROBIAL TECHNOLOGY	3	40+60

8	T.Y.B.Sc.	V	USMB357	Practical Course I	APPLIED MICROBIOLOGY	2	40+60
9	T.Y.B.Sc.	V	USMB358	Practical Course II	BIOCHEMISTRY	2	40+60
10	T.Y.B.Sc.	V	USMB359	Practical Course III	CLINICAL MICROBIOLOGY	2	40+60
11	T.Y.B.Sc.	V	Certificate course		RELATED TO SUBJECT	2	
<b>Total</b>						<b>26</b>	

I: Internal Examination

E: External Examination

**Resolution No. 2:** The syllabus of TYBSc Sem V (2022 Pattern) has been unanimously approved by all members of the BOS.

**3. To design and approve the course credit structure of SYBSc and MSc II as per NEP 2020 (2023 Pattern)**

The preliminary draft of credit structure of SYBSc (NEP 2020, 2023 Pattern) was prepared as shown below.

Semester	Course Type	Course Code	Course Name	Theory/ Practical	Credits	Marks (I + E)
III	Major Mandatory	MIB-201-MJM	Bacterial Systematics	Theory	02	20+30
	Major Mandatory	MIB-202-MJM	Soil Microbiology	Theory	02	20+30
	Major Mandatory	MIB-203-MJM	Air Microbiology	Theory	02	20+30
	Major Mandatory	MIB-204- MJM	Practicals on Bacterial Systematics, Soil Microbiology, Air Microbiology	Practical	02	25+25
	Minor	MIB-211- MN	Basic Microbiology	Theory	02	20+30
	Minor	MIB-212- MN	Basic Microbiological Techniques	Practical	02	25+25
	Open Elective (OE)	MIB-216-OE	Scope & History of Microbiology	Theory	02	20+30
	Vocational Skill Course (VSC)	MIB-221-VSC	Dairy Microbiology	Theory	02	20+30
	Ability Enhancement Course (AEC)	MAR-231-AEC HIN-231-AEC SAN-231-AEC	भाषिक उपयोजन आणि लेखन कौशल्ये/ हिंदी भाषा कौशल / प्राथमिक संभाषण कौशल्यम्	Theory	02	20+30
	Field Project (FP)	MIB-235-FP	Field Project	<del>Project</del>	02	25+25
	Co-curricular Course (CC)	YOG/PES/CUL/NS S/NCC-239-CC	NSS/NCC/Yoga/Cultural activities/Sports	Theory	02	20+30
	Generic IKS Course	GEN-245-IKS	Indian Knowledge System (Generic)	Theory	02	20+30
<b>Total Credits Semester-III</b>					<b>24</b>	
IV	Major Mandatory	MIB-251- MJM	Bacterial Physiology	Theory	02	20+30
	Major Mandatory	MIB-252- MJM	Industrial Microbiology	Theory	02	20+30
	Major Mandatory	MIB-253-	Water Microbiology	Theory	02	20+30

	MJM				
Major Mandatory	MIB-254-MJM	Practical Based on Bacterial Physiology, Industrial Microbiology, Water Microbiology	Practical	02	25+25
Minor	MIB-261-MN	Essentials of Microbiology	Theory	02	20+30
Minor	MIB-262-MN	Microbiology laboratory essentials	Practical	02	25+25
Open Elective (OE)	MIB-266-OE	Practicals on Scope & History of Microbiology	Practical	02	25+25
Skill Enhancement Course (SEC)	MIB-276-SEC	Practicals on Dairy Microbiology	Practical	02	25+25
Ability Enhancement Course (AEC)	MAR-281-AEC HIN-281-AEC SAN-281-AEC	लेखन निर्मिती व परिक्षण कौशल्ये/ हिंदी भाषा: संप्रेषण कौशल/ प्रगत संभाषण कौशलम्	Theory	02	20+30
Community Engagement Project (CEP)	MIB-285-CEP	Community Engagement Project	Project	02	25+25
Co-curricular Course (CC)	YOG/ PES/ CUL/NSS/ NCC- 289-CC	NSS/NCC/Yoga/Cultural activities/Sports	Theory	02	20+30
Total Credits Semester-IV				22	
Cumulative Credits Semester III + Semester IV				46	

The preliminary draft of credit structure of MSc-II (NEP 2020, 2023 Pattern) was prepared as shown below.

Semester	Course Type	Course Code	Title of Course	Theory/ Practical	No. of Credits	Marks (I+E)
III	Major (Mandatory)	MIB-601-MJM	Immunology	Theory	4	20+30
	Major (Mandatory)	MIB-602-MJM	Molecular Biology	Theory	4	20+30
	Major (Mandatory)	MIB-603-MJM	Practical Course V	Practical	2	25+25
	Major (Mandatory)	MIB-604-MJM	Practical Course VI	Practical	2	25+25
	Major (Elective)	MIB-611-MJE(A)	Taxonomy and Bioinformatics	Theory	2	25+25
		MIB-611-MJE(B)	Diversity			
	Major (Elective)	MIB-612-MJE(A)	Practical Course VII(A)	Practical	2	25+25
		MIB-612-MJE(B)	Practical Course VII(B)			
RP	MIB-621-RP	Research Project I	Project	4	50+50	
Total credits Semester III					20	
Semester	Course Type	Course Code	Title of Course	Theory/ Practical	No. of Credits	
IV	Major (Mandatory)	MIB-651-MJM	Recombinant DNA technology	Theory	4	20+30
	Major (Mandatory)	MIB-652-MJM	Microbial metabolism	Theory	4	20+30
	Major	MIB-653-MJM	Practical Course VIII	Practical	2	25+25

	(Mandatory)					
Major (Elective)	MIB-661-MJE(A)	Enzymology	Theory	2	25+25	
		MIB-661-MJE(B)				
Major (Elective)	MIB-662-MJE(A)	Practical Course IX(A)	Practical	2	25+25	
		MIB-662-MJE(B)				
RP	MIB-681-RP	Research Project II	Project	6	50+50	
Total credits Semester IV				20		

**Resolution No. 3:** The credit structure of S.Y.B.Sc. (NEP 2020 Pattern) and MSc II, (NEP 2020, 2023 Pattern) has been unanimously approved by all members of the BOS.

**4. To design and approve curriculum of SYBSc Semester III (2023 pattern as per NEP 2020) to be implemented from the academic year 2024 – 2025**

The preliminary curriculum for SYBSc Sem III syllabus was prepared by Prof. ST Pawar, Prof. YR Mulay, Ms. Kajal Gaikwad, Ms. PC Bhosale, Ms. NT Deokate, Ms. SK Jadhav, Ms. PN Kamble and Ms. Pooja Dhapate. The syllabus was also sent by mail to all the members of BoS. The syllabus was discussed meticulously and the syllabus of following courses was finalized.

Semester	Course Type	Course Code	Course Name	Theory/ Practical	Credits
III	Major Mandatory	MIB-201-MJM	Bacterial Systematics	Theory	02
	Major Mandatory	MIB-202-MJM	Soil Microbiology	Theory	02
	Major Mandatory	MIB-203-MJM	Air Microbiology	Theory	02
	Major Mandatory	MIB-204- MJM	Practicals on Bacterial Systematics, Soil Microbiology, Air Microbiology	Practical	02
	Minor	MIB-211- MN	Basic Microbiology	Theory	02
	Minor	MIB-212- MN	Basic Microbiological Techniques	Practical	02
	Open Elective (OE)	MIB-216-OE	Scope & History of Microbiology	Theory	02
	Vocational Skill Course (VSC)	MIB-221-VSC	Dairy Microbiology	Theory	02
	Ability Enhancement Course (AEC)	MAR-231-AEC HIN-231-AEC SAN-231-AEC	भाषिक उपयोजन आणि लेखन कौशल्ये/ हिंदी भाषा कौशल / प्राथमिक संभाषण कौशल्यम्	Theory	02
	Field Project (FP)	MIB-235-FP	Field Project	Project	02
	Co-curricular Course (CC)	YOG/PES/CUL/NS S/NCC-239-CC	NSS/NCC/Yoga/Cultural activities/Sports	Theory	02
	Generic IKS Course	GEN-245-IKS	Indian Knowledge System (Generic)	Theory	02
Total Credits Semester-III					24

**Resolution No. 4:** The syllabus of SYBSc Sem III (2023 Pattern as per NEP 2020) has been unanimously approved by all members of the BOS.



**5. To design an approved curriculum of MSc II Semester III (2023 pattern as per NEP 2020) to be implemented from the academic year 2024 – 2025**

The preliminary draft of the syllabus of MSc II, Sem III (NEP 2020, 2023 Pattern) was prepared by Mr. Dhawal Doshi, Ms. Komal Jagtap, Ms. Kajal Gaikwad, Ms. Pooja Dhapate, Ms. Nikita Deokate, Ms. SK Jadhav and Miss PN Kamble. The syllabus was also sent by mail to all the members of BoS.

The syllabus was presented by Mr. Dhawal Doshi and after discussion the syllabus of the following courses was finalized:

Semester	Course Type	Course Code	Title of Course	Theory/ Practical	No. of Credits
III	Major (Mandatory)	MIB-601-MJM	Immunology	Theory	4
	Major (Mandatory)	MIB-602-MJM	Molecular Biology	Theory	4
	Major (Mandatory)	MIB-603-MJM	Practical Course V	Practical	2
	Major (Mandatory)	MIB-604-MJM	Practical Course VI	Practical	2
	Major (Elective)	MIB-611- MJE(A)	Taxonomy and Bioinformatics	Theory	2
		MIB-611- MJE(B)	Diversity		
	Major (Elective)	MIB-612- MJE(A)	Practical Course VII(A)	Practical	2
		MIB-612- MJE(B)	Practical Course VII(B)		
RP	MIB-621-RP	Research Project I	Project	4	
Total credits Semester III					20

**Resolution No. 5:** The syllabus of M.Sc. II Semester III (2023 Pattern as per NEP 2020) has been unanimously approved by all members of the BOS.

**6. To discuss and incorporate the relevant feedback of the stakeholders (students, teachers, parents, alumni and employees) in the curriculum.**

The preliminary drafts of the syllabus of TYBSc Sem V (2022 Pattern), SYBSc Sem III (2020, NEP Pattern) and MSc II Sem III (2020, NEP Pattern) were disclosed to stakeholders for comments and suggestions.

Feedback received from stakeholders:

**From Teachers:** The syllabus provides a structured and comprehensive approach to general microbiology education.

**From Students:** The syllabus has been concisely arranged for the better understanding of the subject.

**From Employees:** The syllabus focuses on the development of the careers of microbiologists in industries.

**From Parents:** The syllabus provides specialized and practical education to the students which is beneficial in terms of employability.

**From Alumni:** Alumni provided valuable inputs towards upgrading of the syllabus, particularly from industrial point of view. Accordingly, the elective courses have been introduced.

**Resolution No. 6:** The appropriate suggestions were incorporated in the syllabus.

#### 7. Any other matter with permission of the Chairman

No matters were discussed.

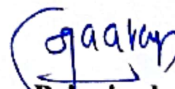
**Resolution No. 7:** Not applicable.

All the BoS members discussed the syllabus throughout and approved it after the inclusion of appropriate comments. In all, the committee reached a consensus that the content of the syllabi is appropriate as per the respective title of the paper. The chairman assured that the syllabi of various papers will be compiled and edited maintaining the uniform formatting in a single file.

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

  
Chairman  
Board of Studies

  
IQAC  
Coordinator

  
Principal