



Anekant Education Society's

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

DEPARTMENT OF MICROBIOLOGY

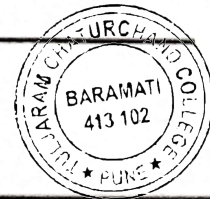
(Faculty of Science and Technology)

Minutes of Board of Studies Meeting No.2

Date of Meeting: 15/05/2020

Venue: Department of Microbiology

May, 2020



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

NOTICE

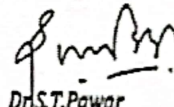
Date: - 01/05/2020

A meeting of BOS members of Microbiology is scheduled on 15th May, 2020 at 11.30 am onwards. All BOS members are requested to attend the meeting.

The agenda of meeting is as follows.

5. To confirm the minutes of the previous meeting held on 05/04/2019.
6. To design the syllabus of S.Y.B.Sc.(2019 pattern).
7. To design the syllabus of M.Sc. Part-II (2019 pattern).
8. To discuss and incorporate the relevant feedbacks of the stakeholders (Students, Teachers, Parents, alumni, and employers) in the curriculum.
9. Any other matter with the permission of the chair.

Yours faithfully



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



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:

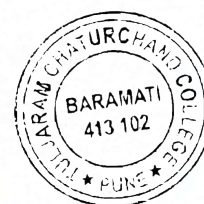
1. To confirm the minutes of the previous meeting held on 05/04/2019.
2. To design the syllabus of S.Y.B.Sc.(2019 pattern).
3. To design the syllabus of M.Sc. Part-II (2019 pattern).
4. To discuss and incorporate the relevant feedbacks of the stakeholders (Students, Teachers, Parents, alumni, and employers) in the curriculum.
5. Any other matter with the permission of the chair.



List of Members Present for the BOS Meeting

The following internal and external BOS members has attended the Board of Studies (Microbiology) meeting held on 15th May, 2020.

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. Sumaiya Mulani Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
7.	Ms. Sheetal Owl Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member
8.	Mr. Avinash Kalumbe Assistant Professor, Department of Microbiology, T. C. College, Baramati.	Member



MINUTES OF THE MEETING

Concerning the Notice dated 01/05/2020, issued by the college, the meeting of Board of Studies in Microbiology was held on 15th May, 2020 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. Sunil Pawar, Chairman of the BoS in Microbiology, welcomed all the members followed by introductory words considering the objectives of the meeting.

The issues concerning the agenda of the meeting were discussed considering the suggestions received through online mode from Dr. Pravin Puranik (Professor, School of Life Sciences, North Maharashtra University, Jalgaon; Expert from other University), Dr. Rajashree Patwardhan (Associate Professor, H.V. Desai College, Pune) and Mr. Vipul Nilkant. The details of agenda-wise discussion of the meeting are shown below.

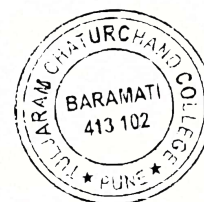
1. To confirm the minutes of the BOS meeting held on 5th April 2019.

Dr. M. H. Gajbhiye read the minutes of the BOS meeting held on 5th April June 2019 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 the syllabus for S. Y. B. Sc. Sem-III & IV (2019 Pattern).

Preliminary draft of syllabus of S.Y.BSc Sem-III-MICRO2301: Bacterial Systematics and Physiology (Theory), MICRO2302: Industrial and Soil Microbiology, MICRO2303 (Practical course) and Sem-IV- MICRO2401: Air and Water Microbiology, MICRO2402: Bacterial Genetics and MICRO2403: Practical course was prepared by Dr.S.T.Pawar, Dr.Y.R.Mulay, Dr.M.H.Gajbhiye, Miss.S.P.Owal. This preliminary draft. 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 syllabus of the following courses was finalized as shown below.

Course structure for S.Y.B.Sc Microbiology Sem-III & IV (2019 Pattern)

Class	Pattern	Semester	Course Code	Course Title	Course Type	Number of Credits
S.Y.B.Sc.	2019	III	MICRO2301	Bacterial Systematics and Physiology	Theory	2
S.Y.B.Sc.	2019	III	MICRO2302	Industrial and Soil Microbiology	Theory	2
S.Y.B.Sc.	2019	III	MICRO2303	Practical course	Practical	2
S.Y.B.Sc.	2019	IV	MICRO2401	Air and Water Microbiology	Theory	2
S.Y.B.Sc.	2019	IV	MICRO2402	Bacterial Genetics	Theory	2
S.Y.B.Sc.	2019	IV	MICRO2403	Practical course	Practical	2
						Total= 12

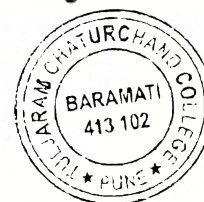
Resolution No.2: The syllabus and academic framework of S.Y.B.Sc.(2019 Pattern) has been unanimously approved by all members of the BOS.

3. To design the syllabus for M. Sc. Part II Sem-III & IV (2019 Pattern).

Basic Draft of Syllabus of M.Sc-II Sem-III-MICRO 5301 Immunology, MICRO 5302 Molecular biology MICRO 5303 Industrial waste water treatment , MICRO 5304 Biophysical Techniques and related practical's, as well as Sem IV theory courses including MICRO 5401 Pharmaceutical Microbiology , MICRO 5402 Molecular biology II , MICRO 5403 Microbial Technology , MICRO 5404 Medical microbiology, was prepared by Mr. Dhawal Doshi, Mrs. Komal Jagtap, Mrs. Summaiya Mulani, Mr. Avinash Kalumbe, Dr.S.T.Pawar, Dr.Y.R.Mulay, Dr.M.H.Gajbhiye and Miss.S.P.Owal and presented before the members. This syllabus was sent by E-mail to all the members of BoS, fifteen days before the scheduled BoS meeting.

Following are the suggestions and comments received from BoS members through E-mails on M.Sc. II Microbiology syllabus:

By Dr. P. R. Puranik



Comments: I have seen the proposed syllabus for MSc II (Microbiology) Sem III and IV. I did not find any significant lacunae in the syllabus. Both syllabi were found designed appropriately. In my opinion both syllabi shall be accepted by college authorities to be brought them in force from the year 2020-21.

By Dr. Rajashree Patwardhan

I have studied Course Structure for M.Sc. -II: Microbiology. This programme would be able to give the students, basic training on various aspects of Microbiology. As one of the BOS members my comments about the syllabus are as follows.

□ With the introduction of credit-based semester and grading system and continuous evaluation consisting of components of Internal Assessment and External Assessment, the syllabus for Microbiology has been formed for M.Sc. Semester II by your Tuljaram Chaturchand College, Of Arts, Science & Commerce Baramati (Autonomous Institute) to be implemented with effect from 2020-21.

□ Sem-III theory courses including MICRO 5301 Immunology, MICRO 5302 Molecular biology MICRO 5303 Industrial waste water treatment, MICRO 5304 Biophysical Techniques and related practical's as well as Sem-IV theory courses including MICRO 5401 Pharmaceutical Microbiology, MICRO 5402 Molecular biology II, MICRO 5403 Microbial Technology, MICRO 5404 Medical microbiology will enable the students to understand theoretical foundations and practical techniques required in the respective subjects.

□ To assist students in developing research skills in general and in specific area of their interest/ specialization, research proposal and research project component (dissertation I and II) has been introduced in the revised syllabus. This component plays especially important role and will provide students with an opportunity to conduct independent research in the subject of Microbiology at your own P.G. centre and if the research project demands, in conjunction with relevant industries/ research institutes. A dissertation demonstrates that a student can identify his or her own area of interest; able to explore a subject in depth; manage a research project; define a suitable question and use the appropriate research tools.

□ M.Sc. Microbiology students can undertake scientific research in industries, government research laboratories, and hospital laboratories or in university research divisions. They are employed in research organisations in various capacities like research scientists, scientific laboratory technicians, toxicologists, and health care scientists. In pharmaceutical, food,

beverage and chemical industries, microbiologists play important roles as quality control and quality assurance specialists, food and water quality scientists, production research officers, technical brewers, ecologists, scientific writers, and content developers.

□ This M. Sc. II programme will enable graduate students to pursue doctoral studies or professional employment, through imparting in depth knowledge in specific domains of Microbiology along with independent research dissertation to harness the flair of research.

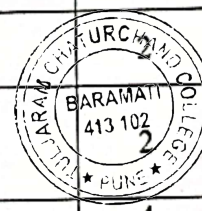
□ In synchronization of modern trends and demands from the industry, the syllabus of this course is designed and revised accordingly.

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

Course structure for M.Sc-II Sem-III & IV (2019 pattern)

Class	Pattern	Semester	Course Code	Course Title	Course Type	No. of Credits
M.Sc.	2019	III	MICRO5301	Immunology	Theory	4
M.Sc.	2019	III	MICRO5302	Molecular Biology I	Theory	4
M.Sc.	2019	III	MICRO5303	Industrial Waste Water Treatment	Theory	4
M.Sc.	2019	III	MICRO5304	Biophysical Techniques	Theory	4
M.Sc.	2019	III	MICRO5305	Practical Course: Practical course based on Immunology, Pharmaceutical Microbiology and Industrial waste water treatment	Practical	4
M.Sc.	2019	III	MICRO5306	Practical Course: Practical course based on Molecular Biology (I and II) and Microbial Technology	Practical	4
M.Sc.	2019	III	CC029	Certificate Course: Research Methodology		
M.Sc.	2019	III	SD23	Skill Development: Spectroscopic Techniques		
M.Sc.	2019	IV	MICRO5401	Pharmaceutical	Theory	4



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M.Sc.	2019	IV	MICRO5402	Microbiology		
M.Sc.	2019	IV	MICRO5403	Molecular Biology II	Theory	4
M.Sc.	2019	IV	MICRO5404	Microbial Technology	Theory	4
M.Sc.	2019	IV	MICRO5405	Medical Microbiology	Theory	4
M.Sc.	2019	IV	MICRO5406	Dissertation I	Project	4
		IV		Dissertation II	Project	4
M.Sc.	2019		SD24	Skill Development: Chromatographic Techniques		2
						Total=54

Resolution No. 3: The curriculum for M.Sc.-II (2019 pattern) has been unanimously approved by all members of the BOS.

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

➤ Feedback received for the syllabus of S.Y.B.Sc-II Sem IV (2022 Pattern).

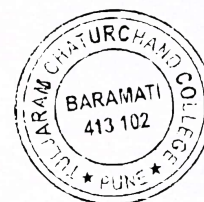
From Student: Students appreciated the focused topics, such as Bacterial Systematics, Industrial and Soil Microbiology, Air and Water Microbiology, and Bacterial Genetics. The inclusion of practical courses could offer hands-on experience.

From Teacher: Teachers found the syllabus concise and focused, allowing for in-depth coverage of specific topics. The inclusion of practical courses could facilitate active learning.

From Parent: Parents focused on nature of the syllabus as a potential strength, allowing students to delve deeply into specific areas of microbiology. Practical courses could be viewed as essential for skill development.

From Alumni: Alumni appreciated the specialized nature of the courses, potentially aligning with specific career paths. Practical courses could be seen as valuable for real-world application.

From Employer: Employers valued the focused topics, as they align with specific areas of microbiology relevant to industries. Practical experience gained through the courses could be seen as an asset.



➤ **Feedback received for the syllabus of M.Sc-II Sem-III & IV (2019 pattern).**

Student: The comprehensive coverage of topics, including Immunology, Molecular Biology, Industrial Waste Water Treatment, Pharmaceutical Microbiology, and Microbial Technology. Practical courses and skill development components could enhance hands-on experience.

Teacher: The syllabus well-structured, covering key areas in microbiology. The inclusion of practical courses and skill development components aligns with hands-on teaching methodologies.


Parent: The diverse range of topics and practical components as valuable for their child's academic and career development. The inclusion of a certificate course and skill development modules could be seen as a positive aspect.

Alumni: Alumni appreciated the practical exposure gained through the dissertation and practical courses, preparing them for real-world applications. The inclusion of skill development courses could be seen as beneficial for career advancement.

Employer: Employers valued the practical skills gained through the dissertation, practical courses, and skill development components. The broad range of theoretical subjects could prepare graduates for diverse roles in the industry.

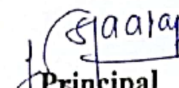
Resolution No. 4: Feedback was collected by the entire stakeholder & was incorporated in the syllabus.

The meeting of BOS concluded with the vote of thanks by Prof. M. H. Gajbhiye.


Chairman
Board of Studies




IQAC
Coordinator


Principal

--- HEAD
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Tuljaram Chaturchand College
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