

SOPHIA COLLEGE (AUTONOMOUS)
MINUTES OF THE ONLINE BOARD OF STUDIES (MICROBIOLOGY) MEETING
HELD ON 10TH JUNE 2023.

Platform- ZOOM

Zoom Meeting Link: <https://zoom.us/j/5943377453>

Meeting ID: 594 337 7453

Time: 10.00 a.m. onwards

Board of Studies members-

Sr no.	Name	Designation
1.	Dr Anuradha Pendse	Vice Chancellor's nominee
2.	Dr. Vikrant Bhor	Expert from non-parent University (ICMR- NIRRH)
3.	Dr. Manju Sharma	Expert from non-parent University (ICT Matunga) appointed in place of Dr. Annamma Odaneth
4.	Dr Girish Mahajan	Industry expert
5.	Ms. Martina Gomes	Meritorious alumna

Staff Members -

Sr. No.	Name	Designation
1.	Dr. (Ms) Arjumanara Surti	Chairperson and Head, Department of Microbiology Associate Professor
2.	Dr. (Ms) Rajbinder Kaur Dehiya	Associate Professor
3.	Ms. Shraddha Prabhu	Assistant Professor
4.	Mr. Vijay Vig	Assistant Professor
5.	Ms Swamini Patade	Assistant Professor
6.	Ms Priyanka Mithbawkar	Assistant Professor
7.	Ms Aafreen Ansari	Assistant Professor

AGENDA:

1. To read and pass the minutes of the previous BOS meeting.
2. To pass TYBSc syllabus for the 2023-2024 batch (to be implemented from the academic year 2023-2024)
3. To inform about the examination pattern - IA and SEE for the SYBSc, TYBSc and MSc-II
4. To ratify/pass FYBSc semester I syllabus under NEP (to be implemented from the AY 2023-2024)
5. To ratify/pass MSc-I semester I syllabus under NEP (to be implemented from the AY 2023-2024)

Dr. A. Surti welcomed the BOS members

Agenda 1- Dr. A. Surti had emailed the minutes of the previous BOS meeting held on 8th October 2022 to the BOS members. The minutes were passed by the BOS members.

Proposed by Dr. Vikrant Bhor
Seconded by Dr. Anuradha Pendse

Agenda 2 - Dr Surti proceeded to invite suggestions and subsequently seek approval of the proposed TY syllabus that was emailed to the BOS members after incorporating the suggestions given by the BOS members during the previous BOS meeting held on 8th October 2022. The proposed TY was passed / accepted.

Proposed by Dr. Vikrant Bhor
Seconded by Dr. Anuradha Pendse

Agenda 3- Dr. Surti informed the BOS members about the IA and SEE assessment pattern to be followed for SYBSc, TYBSc and MSc-II in the academic year 2023-2024. The College has proposed a 60 (SEE) : 40 (IA) pattern from the current academic year onwards instead of 50 (SEE): 50 (IA). SEE will consist of a 60 marks paper having questions based on all units including short answer questions of 1-2 marks and long answer questions of 4-5 marks. Internal Assessment of 40 marks will consist of a test of 20 marks, an activity of 16 marks and active participation in class for 4 marks. Test will include both short and long answer questions. The Activity may include a written assignment, poster making, model making, seminar etc. If a student misses a test for genuine reason, a retest will be given. Similarly if a student does not submit an assignment on time for genuine reason, a late submission may be accepted.

Proposed by Dr. Manju Sharma
Seconded by Dr. Vikrant Bhor

Agenda 4 - Dr. Surti projected the FYBSc semester I Microbiology syllabus under NEP structure to be implemented from the academic year 2023-2024.

Microbiology would be offered as one of the subjects under NEP 2020 consisting of 4 credits split into 3 credits for theory and 1 credit for practicals. The department would also be offering two Vocational Skill based Courses (VSCs). The syllabus for these was presented.

For the course titled Fundamentals of Microbiology, Dr. Anuradha Pendse suggested adding the title heading for the subtopic 1.1 of Unit 1. For unit 1.2, the title for the subtopic being 'Bacteria' appeared nonspecific according to Dr. Pendse and required rephrasing. She also suggested that under practicals, the video assignment on a wet mount of pond water should be reworded to imply that it is hands-on practical and not just a video-making activity. Further, she also requested changes in the title of the activity on Powerpoint making on the wet mount of molds. Dr. Surti assured her that the changes would be done as per the suggestions.

Dr. Vikrant Bhor suggested covering Gram variable bacteria in practicals along with Gram positive and negative bacteria. Dr. Surti agreed and said that the same will be included in the practicals.

Dr. Girish Mahajan enquired regarding the exclusion of topics such as viruses, and mycoplasmas from the course. Dr. Surti clarified that these topics are included in semester 2.

Dr. Manju Sharma suggested keeping the VSC2 practical 'Introduction to the laboratory equipment' in the core paper as students should be introduced to the laboratory equipment in the beginning of the practicals. Dr. Surti clarified that these practicals will be done simultaneously.

Dr. Pendse pointed out that in the VSC1 Cultivation of microorganisms some introduction to microbiology needs to be included before starting with the Nutritional requirements and cultivation techniques. A VSC offered by the department could be selected by students who are not offering Microbiology as some foundation in the subject would be a requirement. Dr. Surti agreed to look into this.

Dr. Vikrant Bhor noted the lack of orientation to aerobes and anaerobes. Dr. Surti informed the board that it is included in VSC 1. He also suggested including errors in microscopy in the curriculum to which Dr. Surti replied that it is covered.

Dr. Surti said that all the above-mentioned modifications will be done and the syllabus will be shared with all the members via email for ratification.

Agenda 5 - The MSc-I semester 1 syllabus under NEP was presented. Dr. Bhor enquired about the major difference in the new proposed syllabus in comparison to the earlier/existing MSc-I syllabus. Dr. Surti said that Research Methodology is shifted to MSc-I semester 1 and Medical Microbiology & Immunology will be shifted to MSc-II in exchange. She also said that Microbial Biochemistry is converted to an elective paper and Food Microbiology is brought to MSc-I and will be another elective course as per the new NEP structure.

Mandatory paper 1 - Virology and Cell Biology-I

Dr. Bhor asked whether exosomes are included in the Cell Biology. Both Dr. Dehiya and Mr. Vig replied that they are not included. He suggested including the topic. Dr. Surti agreed and said that the topic 'Exosomes' will be included in the Cell Biology Unit 4.

Dr. Mahajan expressed his opinion regarding inclusion of introductory cell biology topics such as the cell cycle, cultivation of eukaryotic cells and mammalian cell line prior to starting with the topics such as Cell membrane, Mitochondria and Chloroplast. Mr. Vig replied that most of these topics are covered at the undergraduate level. Dr. Dehiya added that Cell Biology will be covered in semester 2 as well.

Mandatory paper 2 - Genetics-I

No changes were suggested in this course and Dr. Mahajan, Dr. Bhor and all the members were fine with the course.

Elective Paper - Microbial Biochemistry

Dr Pendse suggested removing UV-visible spectrophotometry, Chromatography and Radioisotope techniques as these topics are covered in TYBSc at the undergraduate level and are overlapping. Mr. Vig replied that they do UV-visible spectrophotometry and Chromatography in SYBSc whereas Radioisotope techniques have been removed from TYBSc paper 4. Dr. Surti also said that students do not understand these techniques in detail in SYBSc. Dr. Pendse recommended deleting the topic UV-visible spectrophotometry as it is done at undergraduate level. Dr. Bhor said that the use of radioisotope techniques is decreasing in research and has mostly clinical applications. He suggested retaining the clinical applications and including topics cryo electron microscopy as it is important in structure determination. Dr. Surti replied that cryoelectron microscopy gets covered in one of the other semesters. Dr. Mahajan suggested including Raman Spectroscopy, Infrared spectroscopy, and FTIR. He also suggested ICP-MS and ICP-OES for detection of elements. Dr Surti said that Atomic Emission Spectroscopy for detection of elements is covered in MSc-II. Dr Surti agreed to these changes. It was decided that UV-visible spectrophotometry and Fluorescence spectroscopy will be removed, and the topics Raman spectroscopy, IR spectroscopy and FTIR will be included. Clinical applications of radioisotope techniques will also be included.

Research Methodology

Dr. Bhor enquired whether human ethics will be covered along with animal ethics. Dr. Surti replied that it is covered in clinical research. He also enquired about Biosafety and regulators. Dr. Dehiya replied that both Biosafety as well as Bioethics are covered at undergraduate and M.Sc part II level respectively. However, we will consider adding regulatory bodies in one of the semesters.

Dr. Surti said that all the modifications will be done and the syllabus will be shared with all the members for ratification.

Proposed by Dr. Anuradha Pendse
Seconded by Ms. Martina Gomes

Dr. Surti requested the members to authorize the Chairperson, BOS to modify the syllabus (if required) as per the revised NEP 2020 norms as adapted by the college. All such changes would be emailed to the BOS members and approval would be sought.

Proposed by Dr. Anuradha Pendse
Seconded by Ms. Martina Gomes

With no other matter to be discussed, the meeting ended with the permission from the chair. Dr. Surti thanked all the members.

Minutes prepared by Dr. R. K. Dehiya and Mr. V. Vig

DEPARTMENT OF MICROBIOLOGY
SOPHIA COLLEGE (Autonomous), MUMBAI
RESOLUTION FOR APPROVAL OF SYLLABUS CHANGE

“The Subject Board in Microbiology, SOPHIA COLLEGE (Autonomous), hereby approves

1. The revised syllabus of the TYBSc program for the fifth and sixth semesters which is being implemented from the academic year 2023-2024.
2. The syllabus of the Major (DSC under the course structure of NEP 2020) of the FYBSc program for the first semester which is being implemented from the academic year 2023-2024.
3. The syllabus of the VSC 1 and VSC 2 (under the course structure of NEP 2020) of the FYBSc program for the first semester which is being implemented from the academic year 2023-2024.
4. The syllabus of the MSc 1 program (under the course structure of NEP 2020) for the first semester which is being implemented from the academic year 2023-2024.
5. Assessment pattern for Non NEP SYBSc, TYBSc and MSc 2 (50:50 from previous 60:40 SEE: IA pattern) over the email




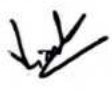



Revised course(s):

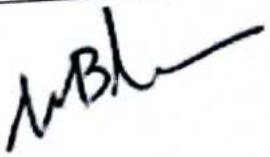



Course code	Percent revision
SBSMCB 501, 502, 503 and 504	6.67%, 13.3% , < 1% and 48.33% respectively
SBSMCB 601, 602, 603 and 604	5%, Not revised, Not revised, 46.67

Courses ratified under course structure of NEP 2020:

1. FYBSc Sem 1 Major (DSC)
2. FYBSc Sem 1 VSC 1 and 2
3. MSc 1 Sem 2

BOARD OF STUDIES
DEPARTMENT OF MICROBIOLOGY

Representation	Name	Affiliation	Signature
Chairperson: Head of the Department	Dr.(Ms).Arjumanara Surti	Associate Professor and Head, Sophia College	
Department faculty members	Dr. (Ms) Rajbinder Kaur Dehiya	Associate Professor, Sophia College	
	Ms. Shraddha Prabhu	Assistant Professor, Sophia College	
	Mr. Vijay Vig	Assistant Professor, Sophia College	
	Ms. Swamini Patade	CHB	
	Ms. Priyanka Mithbawkar	Ad-hoc appointment	P.R.Mithbawkar.
	Ms. Aafreen Ansari	Ad-hoc appointment	
Vice Chancellor's nominee	Dr Anuradha Pendse	Associate Professor and Head, Department of Microbiology, Wilson College.	

Expert from non-parent University	Dr. Vikrant Bhor	Scientist E and Head, Department of Molecular Immunology and Microbiology, ICMR- NIRRH.	
Expert from non-parent University	Dr Annamma Odaneth Dr. Manju Sharma	Institute of Chemical Technology. (Member of the BoS until December 2022. The TYBSc syllabus was discussed, changes ratified by her as well) Institute of Chemical Technology. (invited as BoS member effective from March 2033)	 
Industry expert	Dr Girish Mahajan	Senior Vice President, HiMedia Private Limited.	

Meritorious alumni	Ms. Martina Gomes	Head of Regulatory Affairs, Bayer India.	Approved by Martina Approved
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