

SOPHIA COLLEGE (AUTONOMOUS)

**MINUTES OF THE ONLINE BOARD OF STUDIES (MICROBIOLOGY) MEETING HELD ON 17TH
OCTOBER 2020.**

Platform- ZOOM

Time: 2.30 p.m. onwards

Board of Studies (composition)-

Sr no.	Name	Designation
1.	Ms. Miriam Stewart	Vice Chancellor's nominee
2.	Dr. (Ms) Jyoti Kode	Expert from non-parent University (ACTREC)- Granted leave of absence
3.	Dr. (Ms) Annamma Odaneth	Expert from non-parent University (ICT Matunga)
4.	Mr. Sivan K	Industry expert
5.	Ms. Nidhi Tomar	Meritorious alumna

Staff Members -

Sr. No.	Name	Designation
1.	Dr. (Ms) Arjumanara Surti	Head, Department of Microbiology Associate Professor
2.	Dr. (Ms) Gianni E. Mapara	Associate Professor
3.	Ms. Suparna Dugal	Associate Professor
4.	Dr. (Ms) Rajbinder Kaur Dehiya	Associate Professor
5.	Ms. Shraddha Prabhu	Assistant Professor
6.	Ms. Jyoti Mantri	Associate Professor
7.	Mr. Vijay Vig	Assistant Professor
8.	Ms. Ruksana Khan	Lecturer

Agenda No.1

Proposed examination pattern for odd semesters due to the COVID -19 pandemic

Dr. (Ms.) Arjumanara Surti welcomed all the respected members of the BOS and informed that all exams for the TYBSc Semester VI and M.Sc Semester IV for the 2019-2020 batch have been conducted and the results will be soon declared. The examination pattern for theory exams for TYBSc Semester VI and MSc-II Semester IV 2019-2020 batch consisted of 50 marks MCQs as per the directives and norms laid down by the Government and University of Mumbai. ATKT examinations consisting of 50 marks MCQs have also been conducted for TYBSc and MSc-II 2019-2020 batch. Online practical exam was conducted for MSc-II Semester IV (2019-2020 batch) where online viva was taken for the dissertation project work by 2 external examiners appointed for this exam.

She also gave an overview on the IA and SEE examination pattern for the odd semester for the current batch of 2020-21 and that the IA and SEE would follow a 50:50 pattern across boards. She mentioned that online lectures are being conducted for students using either Google meet or Zoom and instructions are being given for the practicals using PPTs and videos and they will be conducted hands-on when the college reopens. Dr. Surti asked for any comments or suggestions from the BOS members. Dr.Odaneth replied that this is the only method possible given the situation. Dr.Surti informed BOS members that students have been attending online lectures sincerely and attendance has been really good so far as students are not travelling due to pandemic and attending lectures from home.She also said that the department is not sure about the 50 marks internal assessment pattern currently and there has been an ongoing discussion on this. Some tests have already been conducted by few teachers but students have not been informed that they are graded or not. The department is not sure whether to give all MCQ tests for this batch in internal assessment and 25% Assignments can be given. Some students who generally do not do well in subjective theory exams have done very well in MCQs but the department may not give only MCQs in Internal Assessment completely.

Agenda No.2

Proposed syllabus of M.Sc Part II

Dr. Surti said that TYBSc (Applied Component) and MSc-I Microbiology syllabus was revised during the COVID-19 lockdown period and was approved by the BOS members via mail after the corrections and suggestions given by them were incorporated. Revised TYBSc (Applied Component) and TYBSc Microbiology syllabus were implemented this year and MSc-I was supposed to be implemented this year but has not started yet as results have not been declared for TYBSc yet.

Dr. Surti read out the paper titles of MSc-I Microbiology syllabus which had already been passed. She then presented the M.Sc part II proposed syllabus in detail. She mentioned

that certain topics have been added to MSc-I and there were overlaps between TYBSc and MSc-II syllabus which have been taken care of. Two MSc-II papers were completely ready- Paper 2 and 4 so they were presented in detail. Dr. Surti read the unit titles of MSc-II papers. Ms. Miriam Stewart – inquired why in the semester 3 paper 4 the units on methods for studying environmental microorganisms are labeled/numbered as methods I and II. Mr. Vijay Vig said that there are different methods for studying environmental microorganisms- cultural, physiological, immunological and nucleic acid methods so some are in unit 3, rest in unit 4. He also said that the details are given inside. Ms. Shraddha Prabhu shared the screen as Dr. Surti had technical issues.

Semester 3 Paper 2 (SMSMCB302)

Dr. Surti read out paper 2 in detail and asked BOS members for their suggestions. Ms. Miriam Stewart said that it is fine but inquired about molecular methods for detection of food borne pathogens and their toxin. Ms. Shraddha replied that these will get covered under rapid and automated methods. Ms. Shraddha Prabhu asked Ms. Stewart whether she should specify topics. Ms. Miriam Stewart suggested to specify the names of the molecular and immunological methods. She also said that St. Xavier's has included food packaging and the same should be included here. Dr. Surti and Ms. Prabhu replied that it has been covered in TY applied component syllabus extensively and Ms. Prabhu also said that the title of the MSc-II paper is food microbiology. Ms. Nidhi mentioned that semester 3 paper 2 is well designed as it also includes regulatory and industrial aspects. Ms. Prabhu enquired whether more weightage should be given to emerging pathogens and should be covered in detail as there is no scope for many lectures and time is short. Ms. Nidhi said that they can have a small assignment/report on the topic in practicals. Dr. Odaneth agreed to this and said students can follow up and read for the assignments.

Semester 3 Paper 4 (SMSMCB304)

Paper 304 was presented. Ms. Miriam Stewart said that Paper 4 Unit 4 - can be named as molecular and immunological techniques. Mr. Sivan- suggested that unit 3 and 4 - Methods for studying environmental microorganisms can be cut down as it is very vast and exhaustive and it is very difficult for the students to cope and also difficult for the paper setter during question paper setting. He also suggested keeping only techniques which are specifically used for soil microbiology and suggested that research papers can be consulted to find out the techniques being used frequently. He emphasized that this topic has to be made interesting for students. Dr. Surti agreed with Mr. Sivan that it is vast indeed and students will not learn principle, instrumentation, advantages and disadvantages of these techniques in detail. The focus will be on soil microbiology. Ms. Miriam Stewart also said that they will do more applications here but agreed that units 3 and 4 are very vast. Mr. Vijay Vig replied to Mr. Sivan that techniques such as DGGE and metagenomics are used to study soil microorganisms and he will do more research

on this and will accordingly modify it. Mr. Sivan agreed. Dr. Surti said that we will again look into this paper as we don't require many lectures for microbial interactions.

Semester 4 paper 2 (SMSMCB402)

Dr. Surti said that there is no continuity in semester 4 for this paper as semester 3 is food microbiology and semester 4 is pharmaceutical microbiology. Mr. Sivan inquired whether the guidelines are US FDA or India's. Mr. Vijay Vig said that he will crosscheck but it may be the US FDA. Ms. Nidhi said that there are more specific guidelines for specific products. Mr. Sivan suggested that cdsco guidelines should be included.

Semester 4 Paper 4 (SMSMCB404)

Dr Odaneth suggested removing the subtopics bioethanol and names of microorganisms from the topic 'Extremophiles in biofuel synthesis' and to keep the title as extremophiles in biofuels or applications in biofuels. She said that 'biocatalyst' is a misfit in this extremophiles unit. It should be biocatalysts from extremophiles or can be removed as the same is covered as extremozymes. Dr. Odaneth also said that Extremophiles have been allotted 13 lectures and Astromicrobiology 2 lectures. She suggested removing Astromicrobiology as a separate topic and include the same as one of the extreme habitats. She also pointed out that sampling and culturing of deep sea organisms should not be kept exclusively and instead the topic should be sampling from extreme environments and enrichment culturing methods for isolation of all extremophiles. She also suggested adding culturing of extremophiles in fermenters. Ms. Nidhi suggested adding an enrichment medium for isolation of extremophiles. Dr. Odaneth mentioned that the topic biofilms is being represented in a negative way with only harmful/negative effects of biofilms added. She suggested the addition of beneficial biofilms/advantages of biofilms and communication among microbial communities have to be added. She also mentioned that the topic 'chemical biology-synthesis of small molecules by microorganisms' should be added somewhere. She also added that MSc-II semester 4 is diverse and well constructed and it is really good as students are not stuck with only molecular biology and will be doing applied microbiology as well. Dr. Odaneth suggested the addition of case studies of entrepreneurs in solid waste management. Mr. Sivan agreed to this and said that no wet waste goes out of his house as he treats the waste with a microbial consortia. Dr.Odaneth said that she is also doing the same. Ms. Stewart said that they have started this in their college. Ms. Stewart, Dr.Odaneth, Mr. Sivan and Ms. Nidhi said that apart from the abovementioned

suggestions these two papers are fine. Dr. Surti said that she will work on these two papers and will also be ready with the remaining two papers by the next meeting. the meeting ended with this.

Resolution:

Change in examination pattern for odd semesters (due to the COVID -19 pandemic and the ensuing lockdown) was passed by the board of studies.

Minutes of the meeting prepared by - Dr. Rajbinder Kaur Dehiya and Mr. Vijay Vig

Edited by Dr Arjumanara M Surti

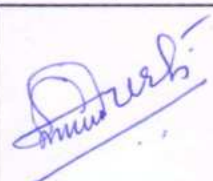
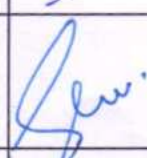
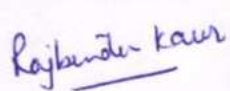

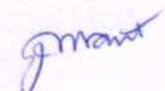

**DEPARTMENT OF MICROBIOLOGY
SOPHIA COLLEGE (AUTONOMOUS), MUMBAI**

RESOLUTION FOR APPROVAL OF CHANGE IN EXAMINATION PATTERN

- The revised pattern of the IA and SEE examination for UG/PG Course of studies for all semesters has been approved by the Board of Studies in Microbiology, SOPHIA COLLEGE (Autonomous), at the online meeting held on 17th October 2020 using zoom platform. It is being implemented from the academic year 2021-2022.

BOARD OF STUDIES

DEPARTMENT OF MICROBIOLOGY

Representation	Name	Affiliation	Signature
Chairperson: Head of the Department	Dr.(Ms).Arjumanara Surti	Associate Professor Head, Sophia College	
Department faculty members	Dr.(Mrs).Gianni Erevelles Mapara	Associate Professor, Sophia College	
	Ms.Suparna Dugal	Associate Professor, Sophia College	
	Dr.(Mrs) Rajbinder Dehiya	Associate Professor, Sophia College	
	Ms.Shraddha Prabhu	Assistant Professor, Sophia College	
	Mrs.Jyoti Mantri	Associate Professor, Sophia College	
	Mr.Vijay Vig	Assistant Professor, Sophia College	

VC nominee	Mrs.Miriam Stewart	Associate and Head of Dept of Microbiology, St.Xavier's College	<i>M.B Stewart</i>
Industry Expert	Sivan K	Deputy General Manager , RIS Healthcare Technologies Private , Limited	Kumaraswami Sivan Digitally signed by Kumaraswami Sivan Date: 2023.02.02 20:27:31 +05'30'
Subject Experts from other Universities	Dr.Jyoti Kode	Scientific officer F, ACTREC	<i>Leave of absence</i>
	Dr.Annamma Anil Odaneth	Associate Professor, DBT-ICT Centre for Energy Biosciences Institute of Chemical Technology	<i>Annamma</i>
Postgraduate meritorious alumnus	Mrs.Nidhi Tomar	Ennature Biopharma, India Glycols Limited Life science	<i>Nidhi</i>