

Department of Microbiology
Minutes of Board of Studies Meeting

Day: Thursday

Date: 22rd June 2023

Time: 3:00 pm

Venue: Online, via Google Meet

Attendance:



Sr. No	Name	Designation	
1	Dr. Anushree Lokur	Principal	Present
2	Dr. Varsha Shukla	Head & Chairperson	Present
3	Dr. Radhika Birmole	Vice Chancellor Nominee	Present
4	Dr. Rupendra Jadhav	A representative from another University	Present
5	Dr. Rahul Warke	Director of HiMedia	Present
6	Dr. Rajesh Patkar	Post Graduate Meritorious Alumnus	Present
7	Mr. Chinmay Kamale	Post Graduate Meritorious Alumnus	Granted leave of absence
8	Mr. Vidyadhar Tupe	Faculty, Ruia College	Present
9	Mr. Niranjan Chavan	Faculty, Ruia College	Present
10	Mr. Nitin Ladvi	Faculty, Ruia College	Present
11	Dr. Mayuri Rege	Faculty, Ruia College	Present
12	Mr. Swapnil Pradhan	Faculty, Ruia College	Present
13	Mr. Sachin Rajagopalan	Faculty, Ruia College	Present
14	Ms. Shveta Tiwari	Faculty, Ruia College	Present



Agenda 1:

To present the board, the proposed credit system for the Four-Year Undergraduate Program (B.A., B.Sc., BACM) and the Post Graduate Program (M.A., M.Sc.), aligning with the guidelines outlined in NEP2020, commencing from the Academic Year 2023-24.

The credit structure for the Four year Bachelor's degree course and Two year Masters course designed as per under the NEP2020 guidelines was explained by Dr. Shukla.

Agenda 2:

To seek approval for the syllabus of the first-year of undergraduate program (Semester I and II) courses, and Postgraduate Program (Semester I) courses including the courses offered for the subject, Generic Elective or Open Elective Courses, Ability Enhancement Courses, Skill Enhancement Courses, and Vocational Skill Enhancement Courses, Discipline specific Core Courses and Discipline specific elective Courses (whichever is applicable) for the Academic Year 2023-24.

Dr Shukla presented the syllabus for the Discipline specific core, Vocational Skill based course and Skill based course in Microbiology for first year of four-year Bachelor's program.

Dr. Shukla also presented two 2 credit courses that could be offered as Generic/ Open electives by the department. Dr. Lokur suggested that the focus of the generic elective paper should be with respect to Indian Traditional foods and terms which are more relatable. Dr Jadhav suggested that a section on microbial food spoilage should be added to the generic elective paper. Dr Patkar suggested that the topics of the electives should have terms related to the Arts domain. Mr Ladvi suggested that a section can be added on Bioterrorism.

Dr Shukla presented the syllabus for the first year for Master's program. Dr Jadhav suggested that topics important with respect to competitive exams should be taught as a separate course.

Resolution 1: That the syllabi designed for DSC, VSC, SEC and GE for First year of UG program and that for MSc Part 1 are passed

Agenda 3:

To seek approval for the modifications in the assessment methods, including changes to the question paper pattern for internal and semester-end examinations, as well as the evaluation process for Semester End examinations (Theory/Practical, as applicable).

Dr Shukla explained the that the modality of the assessment will be a 40:60 pattern. She also said that the detailed modality will be shared with the members.

Agenda 4:

To seek approval for NPTEL courses to be offered in this academic year

Dr. Shukla presented the NPTEL courses shortlisted by the department for the first half of the academic year 2023-24.



Resolution 2: That the listed NPTEL courses stand passed for academic year 2023-24

Agenda 5:

Any other matter with the permission of the Chair.

Dr. Birmole appreciated the efforts of the department in designing and re structuring the syllabi as per NEP 2020, in a short time.

No other matters were raised.

Dr. Anushree Lokur and Dr. Shukla thanked all members for their inputs and the meeting was adjourned at 4:30 pm.

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HEAD DEPARTMENT
OF MICRO-BIOLOGY



Minutes of BoS meeting Department of Microbiology

Date: 24th February 2024

Venue: Online via Zoom

Attendance:

Sr.No	Name		
1.	Dr. Anushree Lokur	Principal, Ramnarain Ruia Autonomous College	Present
2.	Dr. Varsha Shukla	Head, Department of Microbiology	Present
3.	Mr. Vidyadhar Tupe	Assistant Professor	Present
4.	Dr. Radhika Birmole	Vice Chancellor Nominee	Granted Leave for absence
5.	Dr. Rupendra Jadhav	A representative from another University	Present
6.	Dr. Rajesh Patkar	A representative from another University	Present
7.	Mr. Chinmay Kamale	Post Graduate Alumnus	Present
8.	Dr. Rahul Warke	Industry Representative	Present
9.	Mr. Niranajan Chavan	Assistant Professor	Present
10.	Mr. Nitin Ladvi	Assistant Professor	Present
11.	Mr. Swapnil Pradhan	Assistant Professor	Present
12.	Mr. Sachin Rajagopalan	Assistant Professor	Present
13.	Ms. Shveta Tiwari	Assistant Professor	Present
14.	Ms. Dhanashree Sant	Assistant Professor	Present



Photograph:



Agenda Item No. 1:

To confirm the minutes of the previously held BOS Meeting.

Resolution No. 1:

The minutes of the BoS meeting held on 22nd June 2023 were passed.

Agenda Item No. 2:

To seek approval for the changes in the syllabi as per NEP2020 structure for SYBSc (Semester III and IV for the year 2024-25), MSc (Part II for the year 2024-25).

The structure of the Under Graduate and Post Graduate course as per NEP 2020 was explained by Dr. Shukla.

Mr. Chavan presented the SYBSc syllabus for DSC courses titled- Introduction to biomolecules (Semester III) and course titled -Introduction to metabolic pathways and Enzymology (Semester IV) to the panel. It was suggested that the experiments carried out to study the effect of different parameters on enzyme activity can be carried out as group experiments, if there was a paucity of time. Mr. Ladvi presented the SYBSc syllabus for DSC course for semester III titled- Microbial taxonomy and Microbial Ecology. The syllabus for DSC course titled Applied Microbiology (Semester IV) was explained by Mr. Tupe to the board members. Dr. Warke suggested to include FSSAI and information regarding such external bodies like FDA, BIS.

Dr. Shukla explained the course structure for vocational skills paper and Skill enhancement course. Dr. Shukla informed the board members that the paper is expected to be completely based on practical aspects and that it would be conducted using the Flexilab concept. This course will have 4 hours of practical. Dr. Patkar explained concern about the conduct for this practical paper. Dr. Shukla explained that the practical session will be divided into starting time for explanation of theory and then practical. Dr. Shukla requested Mr. Tupe to present the syllabus for VSC course, titled- Microbiological Analysis of environmental samples- Air Water and Sewage. Dr. Warke suggested addition of detection of *Campylobacter jejuni* in swimming pool samples, he also suggested if more organisms can be included at TYBSc level. Dr. Shukla said we will incorporate *C. jejuni* for demonstration purpose. Dr. Warke said he will send names of some more organisms later.

Dr. Shukla asked Mr. Ladvi to present the syllabus for Skill enhancement course that would be offered as a basket to science students of other departments. Mr. Ladvi explained the syllabus and emphasized that this paper focuses on applications part. Dr. Patkar suggested inclusion of algal biofuels. Dr. Shukla said with the expertise of the faculty of botany department, we will be able to conduct practical on algae. Dr. Patkar suggested to include Mycorrhizae in practical for SEC. Dr. Shukla said that it was included in the DSC paper.

Dr. Shukla proposed the syllabus of MSc Part 2 and asked Mr. Pradhan to present the detailed syllabus. Mr. Pradhan introduced the credit structure of MSc Part 2 to the members and the detailed syllabus of all papers. There were no suggestions in the syllabus for DSC.

Dr. Patkar raised a concern that the syllabus for semester 4 should be relooked as the students will also have an internship along with the core papers. Dr Shukla agreed to relook and also suggested that some topics like the assignment on Bioethics should be conducted as a case study.



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Resolution No. 2:

The structure under NEP 2020 and syllabi for DSC, VSC and SEC for SYBSc Semester III and IV and for all courses for MSc Sem III and IV was passed.

Agenda Item No. 3:

To seek approval for the changes in the Modalities of assessment (Internal Class tests/Assignments etc.)

Resolution No.3:

Dr. Shukla informed the committee that there there was no change in the question paper formats and that the overall mark distribution the modality of assessment will be decided at as a college policy.

Agenda Item No. 4:

To seek suggestion on Field Projects/CEP (Community Engagement Programs) to be conducted in Semester III and IV (2024-25)

Mr. Sachin Rajagopalan explained the idea of field projects for SYBSc. He mentioned that it will be an extension of the Biodiversity project which is exhibited under Microbes. Dr Patkar also suggested that the possibilities of microbial interactions from the isolates should also be exploited. Dr Shukla mentioned that the communities engagemnet programs can have studies based studies of water quality in the F north ward (location of the college and around the college). In addition to this Dr Patkar suggested that "Microbiology in day to day life can be explained to locals in local languages". Dr Shukla also mentioned about the success of extension activities carried about by Amchi Prayogshaala and AMR Awareness and that some groups will continue doing that.

Agenda Item No. 5:

To seek approval for the new certificate courses, if any (for 2024-25)

Dr. Lokur acquainted the members about the proposed skill centre to be set up at the college. Dr Shukla shared the syllabi for three courses based on molecular biology and one course on synthetic biology that the department wishes to start in the new academic year. Dr Patkar suggested that a small component on molecular genetics demonstrating the mating types of yeast could be included in the curriculum. Dr Warke suggested that experiments on RT-PCR can also be included in the curriculum.

Dr. Shukla informed that the revised syllabi would be shared with the BoS.

Agenda Item No. 6:

Any other matter with the permission of the chair.

Since no other matter was raised by the members, Prin. Dr. Anushree Lokur and Dr. Varsha Shukla thanked the members for their valuable suggestions and the meeting was adjourned at 2:50 pm.



ADDENDUM

18th March 2024

Agenda: To approve the following

1. Revised credit structure for MSc part 2
2. Converting VSC and SEC of FY to practical based courses

Dr. Shukla informed the members via email the following:

"Incharge Director, Higher Education has recently issued guidelines that allow us a flexible model of credit distribution for courses with intensive OJT/ RP etc. This circular gave us an opportunity to review our credit distribution for PG Science courses where we have a Research Project in Sem III and On Job Training in Sem IV.

I am writing this mail to appraise you of the revised PG structure and also some amendments in the FY structure suggested after review of UG curriculum. These amendments are passed by our Council of Science HoD's.

I request you to go through the amendments and send your comments/ approval for the same.

1. MSc credit distribution for Sem III (2023-24)- Increase in credits for research project from 4 to 6. DSC paper with 2 credits is deleted and those units are adjusted in other papers.
2. MSc credit distribution for Sem IV (2023-24)- Increase in credits for OJT from 6 to 10 credits. One DSC paper with 4 (3+1) credits shifted to the basket of DSE.
3. VSC and SEC papers of UG Sem I and Sem II will be converted to 2 credit practical based papers from 2024-25. Restructured syllabi will be mailed to you for approval.
4. All practical exams will be conducted for 25 marks / credit"

RAMNARAIN RUIA AUTONOMOUS COLLEGE

PREVIOUS STRUCTURE FOR MSC PROGRAM

Semester	Mandatory	Elective	RM	OJT/FP	RP/ Internship	Cum.Credits
1	14 (3+1)*3+2	4	4	0	0	22
2	14 (3+1)*3+2	4	0	4	0	22
3	14 (3+1)*3+2	4	0	0	4	22
4	12 (3+1)*3	4	0		6	22
Total CREDITS	54	16	4	4	10	88



RAMNARAIN RUIA AUTONOMOUS COLLEGE

NEW PROPOSED STRUCTURE FOR MSc PROGRAM

Semester	Mandatory	Elective	RM	OJT/FP	RP/ Internship	Cum.Credits
1	14 (3+1)*3+2	4(3+1)	4	0	0	22
2	14 (3+1)*3+2	4(3+1)	0	4 FP	0	22
3	12 (3+1)*3	4(3+1)	0	0	6 RP	22
4	8 (3+1)*2	4(3+1)	0		10 OJT	22
Total CREDITS	48	16	4	4	16	88

All external members approved the structure and the revised restructuring of the MSc syllabus thereof.

Dr. Patkar and Mr. Chinmay appreciated the additional credits awarded to OJT as the students do put in a lot of work during the internship and therefore should be given due credits. Dr. Jadhav and Dr. Birmole also agreed to the new structure, but expressed concern regarding covering of the theory coursework during semester IV. Dr. Shukla informed them that most of the papers were information based and so reading material would be provided to students beforehand and regular online discussions and lectures would be taken to ensure that the portion is covered. The practicals and some lectures to cover topics that need conceptual understanding will be taken after the students are back from internship. Teachers would also use LMS to create modules for self-paced learning.

Resolution:

Following confirmation via email, following resolutions are passed.

1. Revised credit structure for MSc part 2 is approved
2. VSC and SEC of FY can be converted to 2 credit practical based courses

N.S. Shukla

HEAD DEPARTMENT
OF MICRO-BIOLOGY

