

S. P. Mandali's

Ramnarain Ruia Autonomous College

Minutes of Board of Studies Meeting in Microbiology

Day: Saturday

Date: 23rd April 2022

Venue: Instrumentation Room, Department of Microbiology.

Attendance:

Sr.No	Name		
1.	Prof. 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	Present
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	Granted leave for absence
8.	Dr. Rahul Warke	Industry Representative	Present
9.	Mr. Niranjan 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.	Dr. Mayuri Rege	DST-Inspire Faculty	Present
15.	Ms. Aakifa Ansari	Assistant Professor	Present





Agenda Item No. 1: To pass the minutes of the BoS meeting held on 30th March 2022 and discuss the action taken report.

DISCUSSED THAT:

The Minutes of the meeting and the action taken report were discussed and no objections were raised.

RESOLVED THAT:

The minutes of the Board of Studies meeting held on 30th March 2022 were passed.

Agenda Item No. 2: To seek suggestions, if any, for the changes in the content of the syllabi for Under Graduate Program as per CBCS system with reference to Core Courses, Skill enhancement Courses, Discipline specific electives for FY/SY/TY/MA (if applicable).

DISCUSSED THAT:

Varsha Shukla shared the FY syllabus highlighting few suggestions incorporated from the members namely Dr. Radhika Birmole and Mr. Chinmay Kamale.

RESOLVED THAT:

All the members of the BoS approved of the modified FY syllabus.



Agenda 3:

2. To seek suggestions, if any, for the Certificate courses, Swayam, NPTEL Courses for additional credits.

The syllabus designed by Dr. Rege and Mr. Pradhan was presented. Dr. Patkar raised a query regarding the detection of clones. Dr. Jadhav also suggested that the practicals should not be treated as separate components. Dr. Birmole also enquired if Native PAGE and Coomassie Staining will be done. Mr. Pradhan clarified the above-mentioned queries and added that silver staining of gels would also be performed.

Resolution 3:

The syllabus for the certificate course was passed. Dr. Birmole proposed and Dr. Patkar seconded the approval.

Agenda 4:

To seek approval for the M.Sc. Entrance examinations' pattern.

Dr. Varsha Shukla explained the need for having an entrance exam as a baseline to admit students who have completed their UG degree via the online pattern. The College proposed that the 50% percentile in the TYBSc examination will be the eligibility criteria for appearing for the examination. The pattern suggested was as follows:

Objective Examination:

10 marks General Aptitude

40 marks subject-specific

Few questions should be pertaining to the assessment of higher-order thinking skills.

Dr. Shukla also suggested that in case of a tie in entrance examination marks TYBSc examination marks and CGPA will be considered for granting admission.

The members agreed to this pattern

Dr. Birmole suggested that the prerequisites for the examination should be clearly mentioned, with respect to the syllabus for the written test, the pattern of the examination, and the number of vacancies.

Resolution 4:

The members agreed to the proposal for conducting an entrance exam in the proposed format

Agenda 5:

To seek approval for the change in the Syllabi, the change in the number of credits, and the modalities of assessment for the M.Sc. Program.

The syllabus for MSc part I Semester I and II was presented by Dr. Varsha Shukla. Dr. Shukla also appreciated the efforts taken by Swapnil, Sachin, Shveta, and Aakifa in designing the syllabus. Dr. Shukla informed the members that the credits for the two-year MSc program were now changed to 100. Dr. Rajesh suggested that re-arrangement in the papers offered across the semester should be done. This will bring a better flow to the syllabus. The syllabus for Microbial Genetics, Biochemistry, Medical Microbiology, and Human Microbiome was presented. Dr. Warke suggested that phage therapy can be added to the human



microbiome syllabus. He also suggested that MIC testing should be included in the practical for Antibiotic testing. Dr. Shukla mentioned that the topics are already included in the virology and clinical microbiology syllabus. Dr. Jadhav suggested that mathematical modelling can be included as a separate certificate course. The syllabus for epidemiology was also appreciated by Dr. Jadhav. The syllabus for AECC designed by Dr. Himani was also presented. Dr. Shukla also mentioned that there will be no internal component for the AECC theory examination. The examination will be conducted using a case-study approach. Dr. Rahul Warke had suggested to include basic ISO9000 standard in the DSE II quality management unit I and also inclusion of pharmacopeia. The syllabus for AECC Research Methodology(RM) was also presented. Dr. Patkar suggested that Research Ethics should be included in the RM syllabus. Dr. Birmole suggested that the Response Surface Methodology should be included in the RM syllabus.

Resolution 5:

The BoS members have approved the CBCS syllabus for both the semesters of MSc Semester I.

Agenda 5:

Any other matter with the permission of the chair.

Dr. Birmole suggested that periodic Lab meets should be conducted for the evaluation of the dissertation, to which the teaching faculty agreed

The meeting was adjourned at 1:45 pm.

Dr. Varsha Shukla,
Head, Department of Microbiology

N.S. Shukla
HEAD DEPARTMENT
OF MICRO-BIOLOGY



Ramnarain Ruia Autonomous College

Minutes of Board of Studies Meeting in Microbiology

Day: Wednesday

Date: 30th March 2022

Venue: Instrumentation Room, Department of Microbiology.

Attendance:

Sr.No	Name	
1.	Dr. Anushree Lokur	Principal, Ramnarain Ruia Autonomous College
2.	Dr. Varsha Shukla	Head, Department of Microbiology
3.	Mr. Vidyadhar Tupe	Assistant Professor
4.	Dr. Radhika Birmole	Vice Chancellor Nominee
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Agenda 1:

To seek approval for the implementation of the Choice Based Credit System according to the UGC instructional template which includes the change in the total number of Credits for the Undergraduate program, Post Graduate Programs M.Sc. (wherever applicable), and also to classify the Courses as Core Courses, Ability Enhancement Courses, Skill Enhancement courses and to revise if needed, the syllabi for FY/SY/TY BA/BSc/BVoc/BMM/BACM and for the academic year 2022-23.

Discussion

The meeting started by introducing the board members. Dr. Shukla explained the Proposed Choice Based Credit System for Undergraduate and Postgraduate courses to be provided by the College as per the University of Grants Commission.

No change is proposed for FY and Sy credits. In TY every semester proposed to increase the credits to 5.5 per paper. Dr. Shukla proposed to change the AC to Analytical microbiology instead of Biotechnology and that we planned to include Microbiological Analysis of food and water in 5th semester and that of Pharmaceutical products and disinfectants in 6th semester. Dr. Warke suggested that Microbiological guidelines and regulatory affairs for food and pharmaceutical industries can be included in the syllabus. Dr. Jadhav and Dr. Birmole raised queries about the justification for increase in course credits. Dr. Lokur clarified and justified the increase.

Post Graduate Syllabus:

The PG syllabus was presented by Dr. Shukla, Mr. Rajagopalan and Mr. Pradhan. Dr. Jadhav mentioned that we should have a research proposal in the practical syllabus. Dr. Patkar suggested adding a seminar course to the PG syllabus. The seminar course can have research paper presentations. These presentations are already conducted as a part of the Internal Assessment. Dr. Warke suggested that Microbiome studies is an upcoming field and it can be a part of the syllabus or full elective course. Dr. Birmole suggested that the syllabus for biochemistry can be modified with respect to basic topics covered in the Under Graduate syllabus. Advances in Biochemistry for Protein folding and Protein structure can be included. Dr. Birmole agreed to share details about a few topics along with references. Chinmay Kamale suggested that a topic on kinetics should be added to the Biochemistry paper. Dr. Jadhav was concerned about the sequence of the papers in consecutive semesters. But this concern was resolved by Dr. Shukla. Dr. Birmole suggested that a topic on Metabolomics can be included in the syllabus. Chinmay Kamale suggested to retain the original topics like bi-thermodynamics but also include biokinetics. In biomolecules he has suggested that biomolecules functions have been focused a lot on already but we should focus on structural aspects of biochemistry (also w.r.t. entrance exams). He also enquired about the inclusion of biophysical techniques in the syllabus. Swapnil Pradhan said that these techniques are included in separate papers in Semester 3. Dr. Patkar suggested that we should also focus on secondary metabolism and add it in syllabus. Radhika ma'am has second the suggestion. Suggestions for topics which should be included under the syllabus for the research methodology paper were asked. The board members agreed to share them via email.

Under Graduate Syllabus:

The UG syllabus basic structure and detailed syllabus for FY, Semester I and II was presented by Dr. Shukla.

Dr. Shukla also announced that the syllabus for the Skill Enhancement Course at TYBSc level would be modified to Applied Microbiology, applicable in 2024-25



Resolution 1:

All the board members approved the basic structure and paper titles of the CBCS for UG and PG course in Microbiology. Invited members suggested that the soft copies of the syllabi for FYBSc and MSc part 1 be shared with them so that they can study it and suggest changes over mail. Dr. Anushree Lokur and Dr. Shukla agreed and assured that it would be shared in the next two days.

Agenda 2:

To seek approval for the new certificate courses, SWAYAM, NPTEL Courses, if any.

Discussion:

The certificate course on Molecular biology designed by Mr. Pradhan and Dr. Rege was proposed to the board. The detailed syllabus for the certificate course was presented. All the members agreed to the need of such a course for Hands on training and skill enhancement of the students. Dr. Jadhav requested for the details about the eligibility for the course, Swapnil Pradhan clarified that it would be open to SY, Ty and MSc students of all biological Sciences. Dr. Patkar and Chinmay suggested some rearrangements in the topics and inclusion of primer designing separately in the framework.

Resolution 2:

The board members approved the Course title and overall structure of the course, subject to incorporation of the suggestions

Agenda 3:

i) To decide on the changes in the modalities of assessment, if any, which includes the question paper pattern, for internal and semester-end examinations. (Theory/Practical, wherever applicable).

The modality of assessment was explained by Dr. Varsha Shukla to the board.

Resolution 3i:

All board members approved the Modality of assessment proposed for UG and PG courses

Agenda 3:

ii) To seek approval for the examination pattern used for the internal assessments, semester-end examinations, and the Practical exams (wherever applicable) conducted for the even semester exams in the current academic year. (2021-22)

Discussion:

Dr. Shukla informed the members that FY and Msc 1 and 2 would be held in off line mode for this semester. The pattern decided by the department was presented by Dr. Shukla seeking approval. Dr Patkar suggested that few diagrammatically present and schematically represent types of questions can be asked. Dr. Birmole inquired if Bloom's Taxonomy was used while setting question papers, for which Dr. Shukla replied affirmatively .

Resolution 3ii:

All board members approved the Modality of assessment proposed for 2021-22 UG and PG courses



Agenda 4:

Any other matter with the permission of the Chair.

Dr. Patkar suggested that the department should encourage students to appear for National Level Competitive Examinations for higher studies. Dr. Shukla informed the board members that the Microbiology department has been organising 'Vyakhaya - A training for Competitive examination in Biological Sciences under the Ruia Academy of Competitive Examinations for the past three years.

Since there was no other matter for discussion, the meeting was adjourned at 02:30 pm.

Dr. Varsha Shukla,
Head, Department of Microbiology

N.S. Shukla
HEAD DEPARTMENT
OF MICRO-BIOLOGY

