

**S.P. Mandali's  
RAMNARAIN RUIA AUTONOMOUS COLLEGE  
MATUNGA, MUMBAI 400 019**

**SUBJECT BOARD – BOTANY**

**Minutes of the meeting of the Board of Studies in Botany**

The 1<sup>st</sup> meeting of the Board of studies in Botany for the Academic year 2023-24 was held on **17<sup>th</sup> June 2023** at **02:30 pm** on **Online mode (Google Meet)**. The following members attended the meeting.

**External members present for the meeting:**

- **Prin. Dr. Moses J Kolet**
- **Prof. Milind Sardesai**
- **Prof. Aparna Saraf**
- **Dr. Vikrant Kulkarni**
- **Dr. Shama Zaidi**

**Internal faculty members of the Department present for the meeting:**

- **Prof. Jessy Pius**
- **Dr. Bhavna Narula**
- **Dr. Manjusha Nikale**
- **Ms. Anjali Lade**
- **Dr. Sunil Shankhadarwar**
- **Ms. Bhakti Sapkal**
- **Dr. Sanchita Chaudhuri**
- **Dr. Gauri Sawant**

The meeting was convened by Head of the Department **Prof. Jessy Pius**.

**Agenda of the meeting:**

- 1) To seek approval for the implementation of a new credit structure for the Four-Year Undergraduate Program (B.A., B.Sc., BACM) as well as Post Graduate program (M.A., M.Sc.) in accordance with the NEP2020 guidelines, starting from the Academic Year 2023-24.
- 2) To seek approval for the syllabus of the first-year (Semester I and II) courses, including Major Courses, Minor Courses, General 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 both the Undergraduate and Postgraduate Programs (Semester I and II) for the Academic Year 2023-24.
- 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).

- 4) Any other matter with the permission of the Chair.

**Minutes of the meeting:**

**Agenda Item No. 1: To seek approval for the implementation of a new credit structure for the Four-Year Undergraduate Program (B.A., B.Sc., BACM) as well as Post Graduate program (M.A., M.Sc.) in accordance with the NEP 2020 guidelines, starting from the Academic Year 2023-24.**

**Minutes of the meeting held on 11<sup>th</sup> April 2023** had been circulated to the members. The minutes were confirmed by Dr. Moses Kolet and was seconded by Prof. Aparna Saraf & Prof. Milind Sardesai.

**Action taken on the minutes of the meeting held on 11<sup>th</sup> April 2023.**

Prof. Jessy Pius discussed the action taken by the department on the minutes of earlier meeting. All actions decided in the earlier meeting were fulfilled by the department. They were as follows:

- ✓ Implemented the change in the number of credits to be awarded for the undergraduate students of First Year for the academic year 2022-23 from 132 to 120.
- ✓ Rearranged the core courses of PG semester III & IV under CBCS (no change in the syllabus).

**Agenda Item No. 2: To seek approval for the syllabus of the first-year (Semester I and II) courses, including Major Courses, Minor Courses, General 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 both the Undergraduate and Postgraduate Programs (Semester I and II) for the Academic Year 2023-24.**

Prof. Jessy Pius summarized the new curricular framework with the credits allotted as per NEP 2020 framework from the academic year 2023-24. Further, the syllabus of both Undergraduate and Postgraduate programs (Semester-I and Semester-II) for the Academic Year 2023-24 were explained in detail by Prof. Jessy Pius and Dr. Bhavna Narula.

**Agenda Item No. 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).**

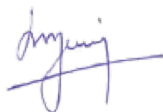
Prof. Jessy Pius described the modalities of internal (theory and practical) assessment. Apart from this, the structure for two training centres was introduced. They are as follows:

- 1) Training centre for Hydroponics (10 Hours).
- 2) Training centre for Plant Tissue Culture (15 Hours).

**Suggestions given:**

- 1) UG and MSc syllabus was passed and approved by all the external BoS members.
- 2) Prof. Moses Kolet acknowledged the idea of training centres.
- 3) Dr. Shama Zaidi suggested that we can include Fungi as biofertilizers and biopesticides in its applications mentioned in the UG Core syllabus.
- 4) Dr. Moses Kolet advised that we have field visits (botanical garden visits) for the UG students in context to their curriculum.
- 5) Dr. Shama Zaidi recommended the concept of licensing and FSSAI in the unit entitled Entrepreneurial Botany of UG course.

**Dr. Jessy Pius thanked all the BoS members for attending the online meeting and the meeting was concluded.**



**Prof. Dr. Jessy Pius**

**Head, Department of Botany**

17<sup>th</sup> June 2023

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MATUNGA, MUMBAI 400 019**

**SUBJECT BOARD – BOTANY**

**Minutes of the meeting of the Board of Studies in Botany**

The 2<sup>nd</sup> meeting of the Board of studies in Botany for the Academic year 2023-24 was held on **29<sup>th</sup> February 2024** at **02:00 PM** on **Online mode (Google Meet)**. The meeting lasted for two and half hours. The following members attended the meeting.

**External members present for the meeting:**

- **Prin. Dr. Moses J Kolet**
- **Prof. Aparna Saraf**
- **Dr. Vikrant Kulkarni**
- **Dr. Shama Zaidi**

**In-house faculty members of the Department present for the meeting:**

- **Prof. Jessy Pius**
- **Dr. Bhavna Narula**
- **Dr. Manjusha Nikale**
- **Dr. Sunil Shankhadarwar**
- **Ms. Bhakti Sapkal**

The meeting was convened by the Head of Department **Prof. Jessy Pius**.

**Agenda of the meeting:**

- 5) To approve the Minutes of the earlier meeting.
- 6) Action taken report.
- 7) To seek approval for the syllabus of the second year UG (Semester III & IV) courses, including DSC, Minor, Skill Enhancement Courses and Vocational Skill Courses for the Academic Year 2024-25 in accordance with frame work passed in the last meeting under NEP 2020 guidelines.
- 8) To seek approval for the syllabus of the second year PG (Semester- III & IV) courses, including DSC, DSE, RP, OJT for the Academic Year 2024-25 in accordance with frame work passed in the last meeting under NEP 2020 guidelines.
- 9) Any other matter with the permission of the Chair.

**Minutes of the meeting:**

**Agenda Item No. 1:**

**Minutes of the meeting held on 17<sup>th</sup> June 2023** had been circulated to the members. The minutes were confirmed by Dr. Moses Kolet and was seconded by Prof. Aparna Saraf & Prof. Milind Sardesai.

### **Suggestions given by Prof. Moses Kolet:**

- Discuss with the Academic Council and update us about assessment pattern.
- Syllabus should be revised with respect to quality over quantity.

### **Agenda Item No. 2:**

#### **Action taken on the minutes of the meeting held on 17<sup>th</sup> June 2023.**

Prof. Jessy Pius discussed the action taken by the department on the minutes of earlier meeting. All actions decided in the earlier meeting were fulfilled by the department. They were as follows:

- ✓ Incorporated all suggestions given by the BoS members in the curriculum.
- ✓ Implemented the curriculum framework and syllabus prepared under NEP 2020 successfully for the undergraduate and post graduate students of First Year for the academic year 2023-24.

### **Agenda Item No. 3: To seek approval for the syllabus of the second year UG (Semester III & IV) courses, including DSC, Minor, Skill Enhancement Courses and Vocational Skill Courses for the Academic Year 2024-25 in accordance with frame work passed in the last meeting under NEP 2020 guidelines.**

Prof. Jessy Pius described the credit structure of internal and external (theory and practical) course. The syllabus of second year Undergraduate program (Semester-III and Semester-IV) for the Academic Year 2023-24 were explained in detail by Prof. Jessy Pius, Dr. Bhavna Narula and Dr. Manjusha Nikale.

### **Suggestions given:**

- Include *Mycorrhiza* in soil microbial interaction. (Dr. Shama Zaidi)
- Remove *Xylaria* from theory syllabus of cryptogamic botany and shift it in practicals. (Prof. Moses Kolet)
- Include deficiency symptoms of micro and macro nutrients. (Dr. Shama Zaidi)
- Students can be taken to a mangrove site for teaching ecological adaptations of halophytes. (Prof. Moses Kolet)
- Prof. Moses Kolet suggested us one Yoga Course named Shri Ambika Yogkutir located at Thane organized by the Ministry of Ayush.
- Add Moringa instead of drumstick.
- Dr. Vikrant Kulkarni suggested a visit to Ayurveda College/ Yoga institute/ Spirulina Farm (Mohor superfoods, Pune).
- Moses Kolet Sir suggested to segregate the practical of edaphic (ecological) parameters and edaphic instruments.
- Remove soil testing kit (Prof. Moses Kolet)
- Add preservation technologies in TY syllabus. (Dr. Shama Zaidi)
- Include saponins in Pharmacognosy unit theory and practical. (Dr. Shama Zaidi)
- Estimation of flavonoids can be performed using coloured flowers. (Dr. Manjusha Nikale)

- Add Perfumery in assignment of floriculture. (Dr. Shama Zaidi)
- Edible Flowers can be included as a part of syllabus in entrepreneurial botany. (Dr. Shama Zaidi).

UG Syllabus was approved by all BoS members.

**Agenda Item No. 4: To seek approval for the syllabus of the second year PG (Semester-III & IV) courses, including DSC, DSE, RP, OJT for the Academic Year 2024-25 in accordance with frame work passed in the last meeting under NEP 2020 guidelines.**

The syllabus of second year PG program (Semester-III and Semester-IV) for the Academic Year 2023-24 were explained in detail by Ms. Bhakti Sapkal.

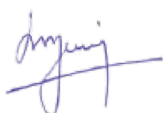
**Suggestions given:**

- Include protein hydrolysis assay/ practical in RPSBOTP402.
- Mention Golden Champa in hydrodistillation practical of essential oils.
- Include nutrition factors in soilless culture technology.
- Dr. Shama Zaidi recommended the concept of licensing and FSSAI in the soilless culture technology syllabus.
- Prof. Moses Kolet recommended Mr. Vishnu Kanhere for internship on environmental audit for MSc students.
- Automation/ Recent advancements in Polyhouses and post-harvest technology can be included in DSE syllabus. (Dr. Shama Zaidi).

Prof. Jessy Pius described the structure for the two certificate courses of 2 credits introduced for differently abled children. They are as follows:

1. Certificate course in Gardening level- 1.
2. Certificate course in Gardening level- 2.

**Prof. Jessy Pius thanked all the BoS members for attending the online meeting and the meeting was concluded.**



**Prof. Dr. Jessy Pius**

**Head, Department of Botany**

29<sup>th</sup> February 2024.