

**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 1st meeting of the Board of studies in Botany for the Academic year 2024-25 was held on 28th September 2024 at 02:00 PM on Online mode (Google Meet). The meeting lasted for 40 minutes. The following members attended the meeting.

External members present for the meeting:

- Prof. Dr. Aparna Saraf
- Dr. Vikrant Kulkarni
- Dr. Shama Zaidi

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

- Dr. Bhavna Narula
- Ms. Anjali Lade
- Dr. Sunil Shankhadarwar
- Ms. Bhakti Sapkal
- Mr. Ravinder Sah

Members absent for the meeting (Informed on a prior basis):

- Prin. Dr. Avinash Patil (External)
- Prof. Dr. Milind Sardesai (External)
- Capt. Dr. Manjusha Nikale (In-house)

The meeting was convened by the Head of Department **Dr. Bhavna Narula**.

Agenda of the meeting:

1. To pass the Minutes of the earlier meeting.
2. To seek approval for the changes in the syllabi as per NEP2020 structure for FY/SYBA/SYBSc/SYBVoc (Semester II and IV for the year 2024-25), MA/MSc (Part I/II for the year 2024-25) and TYBA/BSc/BVoc Semester VI (Non-NEP).
3. To seek approval for the changes in the Modalities of assessment, if any.
4. To seek suggestion on Field Projects/CEP (Community Engagement Programs) to be conducted in Semester III and IV (2024-25).
5. To seek approval for the new certificate courses, if any (for 2024-25).
6. Any other matter with the permission of the Chair.

Minutes of the meeting:

Agenda Item No. 1: To pass the Minutes of the earlier meeting.

Minutes of the meeting held on 29th February 2024 had been circulated to the members. The minutes were approved by Prof. Dr. Aparna Saraf and was seconded by Dr. Vikrant Kulkarni and Dr. Shama Zaidi.

Agenda Item No. 2: To seek approval for the changes in the syllabi as per NEP2020 structure for FY/SYBA/SYBSc/SYBVoc (Semester II and IV for the year 2024-25), MA/MSc (Part I/II for the year 2024-25) and TYBA/BSc/BVoc Semester VI (Non-NEP).

Dr. Bhavna Narula described the structure of the syllabus for all the classes.

Outcome- Approved.

Agenda Item No. 3: To seek approval for the changes in the Modalities of assessment, if any.

Dr. Bhavna Narula confirmed that there are no changes in the modalities of assessment.

Outcome- Approved.

Agenda Item No. 4: To seek suggestion on Field Projects/CEP (Community Engagement Programs) to be conducted in Semester III and IV (2024-25).

Suggestions given by the External members:

- Prof. Dr. Aparna Saraf suggested few ideas on field projects such as phytoremediation, pollution studies, etc. Local areas or pieces of land that have got completely degraded can be selected for restoration projects. Studies on carbon footprint and carbon handprint can be a fruitful activity. Eg. Impact analysis of carbon footprint and carbon handprint at Dahanu Research Station. Such projects can be carried out during the specific time slot allotted for field projects and during vacation period. Community Engagement Programs such as student volunteering can be conducted in collaboration with SOCLEEN (Society for Clean Environment) and FOT (Friends Of Trees) organizations.
Reference contact for SOCLEEN- A. D. Sawant (President, SOCLEEN).
- Dr. Vikrant Kulkarni shared some project ideas on Mangrove plantation and carbon sequestration being conducted at Forest department Gorai creek and in collaboration with Adani electricity. This project can be continued for 10 years by progressive batches. Volunteering activities can be conducted in collaboration with Rotary Club of Navi Mumbai.
- Dr. Shama Zaidi recommended few projects on developing soil testing protocols and on-field soil testing kits useful in agricultural sector.

Agenda Item No. 5: To seek approval for the new certificate courses, if any (for 2024-25).

Dr. Bhavna Narula confirmed that there is no new certificate course introduced in the year 2024-25. The certificate courses which were approved last year will be initiated soon.

List of the certificate courses are as follows:

1. Hydroponics
2. Aquaponics
3. Floristry
4. Plant Tissue Culture
5. Organic farming

Outcome- Approved.

Agenda Item No. 6: Any other matter with the permission of the Chair.

None.

Dr. Bhavna Narula thanked all the BoS members for attending the online meeting and the meeting was concluded.

Bhavna

Dr. Bhavna Narula
HOD Botany
28th September 2024.



A. S. Lakshmi

Principal
Ramnarain Ruia Autonomous College
Matunga, Mumbai-400 019.

**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 2nd meeting of the Board of studies in Botany for the Academic year 2024-25 was held on 27th March 2025 from 02:00 PM to 04:30 PM on hybrid mode (Google Meet and Kaushal Kendra, 1st floor, Ramnarain Ruia Autonomous College, Matunga, Mumbai-19). The meeting lasted for 2.5 hours. The following members attended the meeting.

External members present for the meeting:

- Prof. Dr. Aparna Saraf (online mode)
- Prof. Dr. Milind Sardesai (online mode)
- Dr. Shama Zaidi (present on-campus)
- Dr. Vikrant Kulkarni (online mode)

In-house faculty members of the Department present (offline) for the meeting:

- Dr. Bhavna Narula (Head of the Department)
- Dr. Manjusha Nikale
- Ms. Anjali Lade
- Dr. Sunil Shankhadarwar
- Ms. Bhakti Sapkal
- Ms. Akshada Parab
- Mr. Ravinder Sah

Members absent for the meeting (Informed on a prior basis):

- Prin. Dr. Avinash Patil (External)

The meeting was convened by the Head of Department **Dr. Bhavna Narula**.

Agenda of the meeting:

7. To pass the Minutes of the earlier meeting.
8. To seek approval for the changes in the syllabi as per NEP2020 structure for TYBSc (Semester V and VI for the year 2025-26), MSc (Part I/II for the year 2025-26).
9. To seek approval for the certificate courses (for the year 2025-26).
10. To discuss question papers with esteemed members.
11. To seek approval for the changes in the Modalities of assessment, if any.
12. To seek suggestions for PhD related course work.
13. Any other matter with the permission of the Chair.

Minutes of the meeting:

Agenda Item No. 1: To pass the Minutes of the earlier meeting.

Minutes of the meeting held on 28th September 2024 had been circulated to the members. The minutes were approved by Prof. Dr. Aparna Saraf and was seconded by Prof. Dr. Milind Sardesai, Dr. Vikrant Kulkarni and Dr. Shama Zaidi.

Agenda Item No. 2: To seek approval for the changes in the syllabi as per NEP2020 structure for TYBSc (Semester V and VI for the year 2025-26), MSc (Part I/II for the year 2025-26).

Dr. Bhavna Narula began with presenting the credit structure for TYBSc (Semester-V and VI) followed by detailed discussion on the syllabus for TYBSc.

Following were the list of papers presented before the BOS members:

Semester V

Course Code	UNIT	TOPICS	Credits
RUSMJBOT O301	Theory	PLANT SCIENCE VI - (DSC MAJOR)	03
RUSMJBOT O302	Theory	PLANT SCIENCE VII – (DSC MAJOR)	03
RUSMJBOT O303	Theory	PLANT SCIENCE VIII – (DSC MAJOR)	03
RUSMJBOT O304A	Theory	COMPUTATIONAL BIOLOGY(DSE)	03
RUSMJBOT O304B	Theory	SEED TECHNOLOGY (DSE)	03
RUSMJBOTP O301	Practicals	Practical based on RUSMJBOTO301	01
RUSMJBOTP O302	Practicals	Practical based on RUSMJBOTO302	01
RUSMJBOTP O303	Practicals	Practical based on RUSMJBOTO303	01
RUSMJBOTP O304A	Practicals	Practical based on RUSMJBOTO304A	01
RUSMJBOTP O304B	Practicals	Practical based on RUSMJBOTO304B	01
RUSVSCBOTP O306	Practicals	HARNESSING PLANT RESOURCES (VSC)	02
RUSMIBOT O305	THEORY	MEDICINAL BOTANY (MINOR)	01
RUSMIBOTP O305	Practicals	Practical based on RUSMJBOTO305	01
RUSFPO307	PRACTICAL	Field work based	02

SEMESTER VI

Course Code	UNIT	TOPICS	Credits
RUSMJBOT E311	Theory	PLANT SCIENCE - IX (DSC MAJOR)	03
RUSMJBOT E312	Theory	PLANT SCIENCE - X (DSC MAJOR)	03
RUSMJBOT E313	Theory	PLANT SCIENCE - XI (DSC MAJOR)	03
RUSMJBOT E314A	Theory	ALLIED SCIENCE (DSE)	03
RUSMJBOT E314A	Theory	EVOLUTIONARY BIOLOGY (DSE)	03
RUSMJBOTP E311	Practicals	Practical based on RUSMJBOTE311	01
RUSMJBOTP E312	Practicals	Practical based on RUSMJBOTE312	01
RUSMJBOTP E313	Practicals	Practical based on RUSMJBOTE313	01
RUSMJBOTP E314A	Practicals	Practical based on RUSMJBOTE314A	01
RUSMJBOTP E314B	Practicals	Practical based on RUSMJBOTE314B	01
RUSOJTBOT E316	Practicals	Entrepreneurship in Nursery Management (OJT)	02
RUSMIBOT E315	THEORY	HORTICULTURAL PRACTICES (MINOR)	01
RUSMIBOTP E315	Practicals	Practical based on RUSMIBOTE315	01

Following suggestions were given by the external members:

- Dr. Shama Zaidi recommended mentioning specific economic applications of algae in paper 301 Unit-I.
- She advised adding commercial aspects of Fungi w.r.t. biofertilizers and biopesticides with examples like Nematophagous fungi, *Trichoderma* & *Beauveria*.
- Prof. Aparna Saraf asked to change the subtitle 'Vegetative growth' to 'Plant growth regulators' in paper 303 Unit-I, while Shama Madam highlighted on adding 'Synthetic PGRs' in the same unit.
- Dr. Shama Zaidi & Prof. Aparna Saraf suggested to remove 'Electron microscopy' topic from paper 304 Unit-I as it is included in syllabus of MSc course.
- Dr. Shama Zaidi and Dr. Vikrant Kulkarni gave an impactful idea of guiding students to apply statistical tools to interpret their experimental data from regular practical & projects.
- Dr. Bhavna Narula approved shifting topic of 'the Chi-square test' and coefficient of correlation from Practical Paper P313 to the FY or SY practical syllabus as per need.

- Prof. Aparna Saraf and Dr. Shama Zaidi suggested 'effect of Gamma Irradiation in seed processing' to be added to paper 304- Seed Technology Unit- I.
- Prof. Aparna Saraf recommended one reference book titled 'Encyclopedia of Seed Technology by Bewley and Black' to be added in the list of references of paper 304 titled 'Seed Technology'.
- Following suggestions were given by Dr. Shama Zaidi for VSC Practical paper. They are as follows-
 - Preparation of oil-based pesticides (eg: from clove oil)
 - Estimation of fulvic acid, humic acid & potassium sources from Rhodophytes
 - Extraction and application of polysaccharides from algae
- Prof. Aparna Saraf urged to replace '*Strychnos* seeds' with '*Plumbago*/ Chamomile flower' due to lack of availability of *Strychnos* seeds in Paper 313 Unit-I.
- Dr. Bhavna Narula added Senna leaf to the practical paper of P313 after approval from BoS members.
- Dr. Shama Zaidi offered a compelling suggestion of adding practical component of Bioinformatics in Evolutionary Biology paper.
- Dr. Shama Zaidi recommended to include 'APEDA' in the 13th practical of Nursery Management paper.
- For MSc Part 1, semester II, RPSBOTPE512, the practical on TLC of auxins was replaced by the bioassay of auxins.

Outcome- Syllabus approved with incorporation of suggestions.

Agenda Item No. 3: To seek approval for the certificate courses (for the year 2025-26).

Dr. Bhavna Narula confirmed that there is no new certificate course introduced for the year 2025-26. The certificate courses which were approved last year will be initiated soon. They are as follows:

6. Hydroponics
7. Aquaponics
8. Floristry
9. Plant Tissue Culture
10. Organic farming

Dr. Shama Zaidi generously agreed to conduct a certificate course on 'Techno-commercial aspects of Urban Farming' in collaboration with Aries Agro Ltd. She also encouraged the young faculty members of our department to publicize these certificate courses on social media for boosting the intake number of participants.

Outcome- Approved.

Agenda Item No. 4: To discuss question papers with esteemed members.

Dr. Bhavna Narula will share the question papers with the esteemed members to seek approval.

Agenda Item No. 5: To seek approval for the changes in the Modalities of assessment, if any.

Prof. Aparna Saraf approved for a 10 M assignment and 40 M practical assessment for VSC practical paper.

Dr. Bhavna Narula confirmed that there are no further changes in the modalities of assessment.

Outcome- Approved.

Agenda Item No. 6: To seek suggestions for PhD related course work.

None.

Agenda Item No. 7: Any other matter with the permission of the Chair.

None.

Dr. Bhavna Narula immensely thanked all the BoS members for attending the meeting on hybrid mode, supporting and giving valuable suggestions and the meeting was concluded.



Dr. Bhavna Narula
HOD BOTANY
27th March 2025.



Principal

Ramnarain Ruia Autonomous College
Matunga, Mumbai-400 019.

