

**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 2025-26 was held on **14th August 2025** from **02:30 PM to 03:00 PM** on **hybrid mode (Google Meet and Department of Botany, 2nd floor, Ramnarain Ruia Autonomous College, Matunga, Mumbai-19)**. The meeting lasted for **half an hour**. The following members attended the meeting.

External members present for the meeting:

- **Prof. Rupesh S. Badere, RTM Nagpur University (Online mode)**
- **Prof. Nikhil B. Gaikwad, Shivaji University, Kolhapur (Online mode)**
- **Prof. Ajit Kengar, Vaze College (Online mode)**
- **Dr. Govind Paratkar, Director, Centre for advanced research and training in Biosciences (Online mode)**
- **Dr. Sangeeta Godbole, Jai hind College, Churchgate (Online mode)**
- **Mr. Animish Andhere, Alumnus, PhD at VIT (Online mode)**

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

- **Dr. Bhavna Narula (Head of the Department)**
- **Dr. Anjali Lade**
- **Dr. Sunil Shankhadarwar**
- **Ms. Bhakti Sapkal**
- **Ms. Akshada Parab**

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

- **Dr. Manjusha Nikale (In-house)**

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

Agenda of the meeting:

1. To confirm the past BoS meeting minutes
2. To discuss the certificate courses that the department is planning to start
3. To discuss the future course of department curriculum
4. Any other matter with the permission of the Chair.

Minutes of the meeting:

Agenda Item No. 1: To confirm the past BoS meeting minutes

Minutes of the meeting held on 27th March 2025 had been circulated to the members. The minutes were approved by Prof. Rupesh Badere and was seconded by Prof. Ajit Kengar and Dr. Govind Paratkar.

Agenda Item No. 2: To discuss the certificate courses that the department is planning to start

Dr. Bhavna Narula began with presenting the certificate courses that the department is planning to start followed by brief discussion on the detailed syllabus of each course. The certificate courses which were approved last year will be initiated soon. They are as follows:

1. Basic Hydroponics
2. Aquascaping & Interiorscaping
3. Floristry
4. Basic Plant Tissue Culture
5. Organic gardening

Suggestions given by the External members:

- Prof. Rupesh Badere enquired about the fee structure of certificate courses.
- Prof. Ajit Kengar asked for the credit structure and course duration.
- Dr. Govind Paratkar opened a discussion for the schedule of lectures and practical for each 30 hrs duration course.
- He suggested few Solanaceae members for practicals based on Basic Plant Tissue Culture course.
- Prof. Ajit Kengar suggested practicals on seed inoculation and callus induction followed by callus regeneration for Basic Plant Tissue Culture course.
- Prof. Ajit Kengar advised to change the title of the practical 'Identification of aquatic plants' to 'Selection of aquatic plants' for the Aquascaping and Interiorscaping course.

Outcome- Approved.

Agenda Item No. 3: To discuss the future course of department curriculum

Dr. Bhavna Narula informed about the honors program to be initiated next year. A detailed discussion on the course structure, credit structure, syllabi and the modalities will be done with all the BoS members in the upcoming BoS meeting.

Agenda Item No. 4 : 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 and the meeting was concluded.

Bhavna

Dr. Bhavna Narula
Head, Department of Botany
Ramnarain Ruia Autonomous College
14th August 2025.



A Lokur

Prof. Dr. Anushree Lokur
Principal
Ramnarain Ruia Autonomous College
14th August 2025.

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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 2025-26 was held on **20th March 2026** from **02:00 PM to 04:00 PM** on **hybrid mode (Google Meet and Board Room, 2nd floor, Ramnarain Ruia Autonomous College, Matunga, Mumbai-19)**. The meeting lasted for **two hours**. The following members attended the meeting.

External members present for the meeting:

- **Prof. Ajit Kengar, V.C. Nominee, Subject Expert, Vaze College (Online mode)**
- **Prof. Nikhil B. Gaikwad, Subject Expert, Shivaji University, Kolhapur (Online mode)**
- **Prof. Rupesh S. Badere, RTM Nagpur University (External member)**
- **Dr. Sangeeta Godbole, Subject Expert, Jai hind College, Churchgate (Online mode)**
- **Dr. Govind Paratkar, Director, Centre for advanced research and training in Biosciences (Online mode)**
- **Mr. Animish Andhere, Alumnus, PhD at VIT (Online mode)**

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

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

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

Agenda of the meeting:

1. To confirm the past BoS meeting minutes
2. To discuss and approve the changes in syllabus for First year UG and PG programs as a part of NEP 2.0 (second phase of implementation of NEP-2020)
3. To discuss and approve the modalities of assessment for the syllabus mentioned in the above point 2
4. To discuss and approve the introduction of syllabus of Fourth year UG Honors/ Research program
5. To discuss and approve the modalities of assessment for the syllabus mentioned in the above point 4
6. To discuss and approve the syllabus for certificate courses that can be included in the basket of GE/OE at SY level in Sem IV (including the modalities of assessment for the award of credits therein)
7. To discuss and approve the syllabus for certificate courses that the Department wants to introduce
8. Any other matter by the permission of the chair

Minutes of the meeting:**Agenda Item No. 1: To confirm the past BoS meeting minutes**

Minutes of the meeting held on 14th August 2025 had been circulated to the members. The minutes were approved by Dr. Sangeeta Godbole and was seconded by Prof. Ajit Kengar and Mr. Animish Andhere.

Agenda Item No. 2: To discuss and approve the changes in syllabus for First year UG and PG programs as a part of NEP 2.0 (second phase of implementation of NEP-2020)

Dr. Bhavna Narula explained the outline of First year UG course and First year PG course with a thorough discussion on the detailed syllabus of each course.

UG- FYBSc.:

For FYBSc DSC syllabus of the odd semester, Dr. Bhavna Narula informed the quorum that the second unit – Environmental botany would be taken to the second year and would be replaced by Next Generation Botany including AI and Forensic Botany in the FYBSc syllabus. The detailed syllabus of RUSBOTO101 Unit-II Next Generation Botany was duly acknowledged by Dr. Paratkar, Dr. Godbole and Mr. Andhere. appreciation was expressed for the thoughtful approach

adopted in incorporating this unit into the curriculum. The quorum was also informed about the inclusion of Agribusiness components in the VSC practical.

Suggestions for UG syllabus given by the External members:

- Mr. Andhere suggested the addition of IMPPAT (Indian Medicinal Plants, Phytochemistry And Therapeutics 2.0) database in RUSBOTPO101, Unit 2.
- Dr. Kengar recommended incorporating the Bentham and Hooker classification system up to the level of series, and the inclusion of Amaranthaceae family, from Apetalae considering its easy availability for study purposes in RUSBOTPE111, Unit 2.
- Dr. Godbole suggested the inclusion of preserved products such as *mukhwas*, dried edible fruits and flowers, chickoo flakes, and beetroot chips in the VSC practical on Entrepreneurial Botany. Furthermore, she suggested organizing a field visit to a training centre at Bhoisar, where such edible dried products are manufactured, packaged, and prepared for market sale, to get a live demonstration for the students on solar drying process.

Dr. Bhavna Narula read out the PG syllabus and informed that Research Methodology paper RPSRMBOTO505, which was earlier a 4 credit theory paper is now # credits theory and 1 credit practical paper. In the MSc Part I syllabus, Topics such as Origin and evolution of sex in algae, topics in repetition with TY were omitted from Bryophyta and new examples for life cycle were suggested based on availability of materials for practicals. A few practicals were also added to the practical component of algae.

Suggestions for PG syllabus given by the External members:

- Prof. Kengar asked to remove Campbell system of classification of Bryophyta from MSc First Year RPSBOTO501 Unit-III syllabus, which was seconded by Dr. Godbole.
- Dr. Godbole recommended that the students can explore **fungal diseases currently affecting the country**, with a focus on identifying areas where further research is needed, as a part of their practical component in MSc First Year RPSBOTPO501.
- Prof. Gaikwad recommended replacing Ergot of Rye and Covered Smut of Barley with **Ergot of Bajra** and **Covered Smut of Jowar** in MSc First Year RPSBOTPO501, for the sole purpose of sample availability.
- In context to MSc First Year RPSBOTO502, Unit-III Stress Physiology, Mr. Andhere suggested reviewing CSIR NET syllabus on stress physiology. Dr. Godbole advised the inclusion of heat and temperature stress, along with defense pathways mediated by JA and SA in response to stress, as well as hypersensitive responses.

- Prof. Kengar and Dr. Godbole asked to remove topic on non-parametric tests in RPSRMBOTO505 Unit-III Biostatistics, thereby approving topic on repeated measures ANOVA. Prof. Gaikwad and Mr. Andhere appreciated the syllabus of RPSRMBOTPO505.
- Dr. Godbole suggested to add proteinase inhibitors and Prof. Gaikwad asked to add amylase inhibitors in RPSBOTO506 Unit-I syllabus.
- Prof. Kengar recommended assigning the preparation of research proposal/ grant proposal as an internal assessment component for RM paper. Dr. Narula reassured that such type of assignments is already allotted to the students.
- Mr. Andhere suggested to add barr body analysis in RPSBOTPO516.
- Dr. Godbole suggested to remove 'implications in human diseases' in DSE RPSBOTPO604 Molecular & Population Genetics syllabus.
- Dr. Godbole affirmed to suggest one lab visit where karyotype analysis is done. She also suggested to add demonstration of software for the karyotype studies.
- Mr. Andhere suggested to add problems related to Genetic drift along with demonstration of CAM (Chorioallantoic Membrane) assay in RPSBOTPO604.
- Mr. Andhere recommended adding Tukey's post hoc test in RPSBOTP611.

Outcome- Approved by Prof. Kengar & Dr. Godbole and seconded by Prof. Gaikwad.

Agenda Item No. 3: To discuss and approve the modalities of assessment for the syllabus mentioned in the above point 2

Dr. Bhavna Narula discussed about the modalities of assessment for the syllabus mentioned in the above point 2.

Outcome- Approved by Prof. Kengar, Dr. Godbole, Mr. Andhere and seconded by Prof. Gaikwad.

Agenda Item No. 4: To discuss and approve the introduction of syllabus of Fourth year UG Honors/ Research program

Dr. Bhavna Narula discussed about the introduction of syllabus of Fourth year UG Honors/ Research program.

Outcome- Approved by Prof. Kengar, Dr. Godbole, Mr. Andhere and seconded by Prof. Gaikwad.

Agenda Item No. 5: To discuss and approve the modalities of assessment for the syllabus mentioned in the above point 4

Dr. Bhavna Narula discussed about the modalities of assessment for the syllabus mentioned in the above point 4.

Outcome- Approved by Prof. Kengar, Dr. Godbole, Mr. Andhere and seconded by Prof. Gaikwad.

Agenda Item No. 6: To discuss and approve the syllabus for certificate courses that can be included in the basket of GE/OE at SY level in Sem IV (including the modalities of assessment for the award of credits therein)

Dr. Bhavna Narula explained the syllabus for the certificate course entitled 'Plants in Festivals of Maharashtra' that can be included in the basket of GE/OE at SY level in Sem IV.

Outcome- Approved by Prof. Kengar, Dr. Godbole and seconded by Prof. Gaikwad.

Agenda Item No. 7: To discuss and approve the syllabus for certificate courses that the Department wants to introduce

Dr. Bhavna Narula explained the syllabus for the certificate course entitled 'Forensic Botany' for the benefit of Science students other than Botany students at the SY and TY level.

Outcome- Approved by Prof. Kengar, Dr. Godbole and seconded by Prof. Gaikwad.

Agenda Item No. 8: Any other matter by the permission of the chair

None.

Dr. Bhavna Narula immensely thanked all the BoS members for attending the meeting on hybrid mode and the meeting was concluded.



Dr. Bhavna Narula
HOD, Botany
Ramnarain Ruia Autonomous College
20th March 2026.



Prof. Dr. Anushree Lokur
Principal
Ramnarain Ruia Autonomous College
20th March 2026

