

Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous)
Department of Biotechnology
Meeting with the Board of Studies (2025-26)

Date: 4th October 2025

Time: 2.00 pm

Mode: Hybrid

Agenda: **Framing of syllabus for TYBSc Biotechnology (Sem VI) as per NEP guidelines**

Attended by:

1. Chairperson

Ms. Vinaya Jategaonkar

Coordinator, Department of Biotechnology

2. The entire faculty of each specialization:

A. Ms. Shmilona Jain

B. Ms. Geetanjali Harale

C. Ms. Ankita More

3. External Subject Expert Member:

(i) Dr. Bhakti Mhatre

Assistant Professor

D Y Patil University

(ii) Dr. Purvi Bhatt

Associate Professor

Sunandan Divitia School of Sciences

NMIMS university

3. University Nominee:

Dr. Shiney Peter

Assistant Professor,

Post Graduate Department of Biotechnology,

St. Xavier's College, Mumbai

4. Subject Expert (R&D/ Industry):

Ms. Prajna Manohar Shetty

Business Development Leader,

Cytiva

5. PG Alumnus:

Ms. Vishakha Mali

BGCI Level 2 Certified Genetic Counselor,

Med Genome laboratories

Minutes of the meeting:

1. Welcome to all the BOS members.

- a. **Ms. Vinaya Jategaonkar** introduced all the new members of BOS namely, **Dr. Purvi Bhatt** (Associate Professor, Sunandan Divitia School of Sciences, NMIMS

university), **Dr. Shiney Peter** (Assistant Professor, Post Graduate Department of Biotechnology,

St. Xavier's College, Mumbai) and **Ms. Prajna Manohar Shetty** (Business Development Leader, Cytiva)

- b. All new members were briefed about how the NEP guidelines have been translated into a workable syllabus for B.Sc. Biotechnology Course.

2. To discuss and approve the Syllabus of TYBSc Biotechnology Semester VI as per NEP 2020 guidelines of Mumbai University & GOM (Circular dated 20th April 2023)

- a. Ms. Vinaya Jategaonkar went through the entire semester VI syllabus paperwise, discussing the outline of the course with reference to the previous knowledge of the topic.
- b. Most courses were passed as it is, the following suggestions were given for some of the courses discussed.

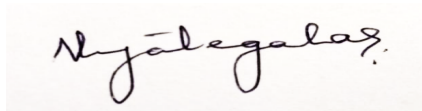
S.No.	Course Name	Suggestion	Member
1.	Major II - Environmental Biotechnology	<ul style="list-style-type: none"> Industrial effluent treatment can be delivered as student presentations. Novel methods used by the dye industry for degradation should be covered. 	Dr. Purvi Bhatt
2.	Major III - rDNA Technology	Application of gene sequencing methods should be covered.	Ms. Prajna Shetty
3.	Major IV- Instrumentation	<ul style="list-style-type: none"> NMR and XRD should be covered - will be covered in the next semester. Ultrafiltration and Ultracentrifugation important from industry point of view - are covered in industrial biotechnology papers 	Dr. Bhakti Mhatre Ms. Prajna Shetty
4.	Major V - Genetics	<ul style="list-style-type: none"> Softwares used in cytogenetics should be covered. Metaphase drop experiment can be included for visualization of chromosomes. 	Ms. Vishakha Mali
5.	Major VI - Agribiotechnology	<ul style="list-style-type: none"> Biofertilizer and biopesticides can be taken as student presentations. Government policies about bioremediation and real world 	Ms. Vishakha Mali Ms. Prajna Shetty

		<p>challenges of execution can be taken as case study.</p> <ul style="list-style-type: none"> ● Environment Impact Assessment (purpose, environmental attributes, impact evaluation and limitations) can be taken as projects. 	Dr. Bhakti Mhatre
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3. AOB

- In the previous BOS meeting held on 20th March 2025, the proposal to introduce an M.Sc. Biotechnology program was unanimously approved. As a follow-up, Ms. Vinaya Jategaonkar suggested that instead of a conventional paper-based M.Sc. program, the department could opt for an *Apprenticeship-Embedded M.Sc. program*, wherein the first year would consist of coursework and the second year would focus on internship-based training.
- Dr. Bhakti Mhatre mentioned that a similar program is already being implemented at DY Patil University, where elective papers are offered alongside the internship.
- Ms. Prajna Shetty expressed skepticism about whether companies or research laboratories would be willing to accommodate students for such an extended duration, and whether the students would gain sufficient knowledge and skills during the training to qualify for an M.Sc. degree.
- Dr. Shiney Peter suggested adopting a dual approach, allowing students the option to either undertake an internship or carry out a research project within the college. She noted that this approach would be more practical, as securing internships for all students every year could be challenging. This seemed to be an acceptable strategy to all members.

4. The meeting concluded with closing remarks by Ms. Vinaya Jategaonkar, followed by a vote of thanks delivered by Ms. Shmilona Jain.



Ms. Vinaya Jategaonkar
Coordinator, Department of Biotechnology
Vivekanand Education Society's
College of Arts, Science and Commerce (Autonomous)