

**Meeting of Board of Studies for Department of Biotechnology, V.E.S. College of Arts,
Science and Commerce (Autonomous)**

Date: 15 February 2024

Time: 2:00 PM

Mode: Online - Google Meet

Agenda: *Discussion on the S.Y.B.Sc. Biotechnology syllabus under NEP and T.Y.B.Sc. Autonomous syllabus, to be implemented in 2024-25*

Members:

1. Chairperson:

Ms. Vinaya Jategaonkar, Coordinator, Department of Biotechnology, V.E.S. College of Arts, Science and Commerce

2. Department Members:

Ms. Shmilona Jain

Ms. Geetanjali Harale

Ms. Ankita Jadhav

3. External Subject Experts:

Dr. Ram Kulkarni, Associate Professor, Symbiosis School of Biological Sciences, Symbiosis International

Dr. Bhakti Mhatre, Assistant Professor, D.Y. Patil University

4. University Nominee:

Dr. Sucheta Golwalkar, Head of Department, Biotechnology, Ramniranjan Jhunjhunwala College, Ghatkopar

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

Mr. Virochan Chavan, Sr. Clinical Data Coordinator IQVIA

6. PG Alumnus:

Ms. Vishakha Mali, Genetic Counselor, Neuberger Center of Genomic Medicine

Minutes of the meeting:

1. Ms. Vinaya Jategaonkar opened the meeting by welcoming the members and explaining the objective behind introducing two independent syllabi, SYBSc under NEP and TYBSc under autonomy.
2. All the department teachers explained the different papers of the syllabi according to their expertise.
3. The discussion started with the TYBSc Biotechnology (Autonomous) Syllabus.
4. In Semester V Paper III titled 'Genetic engineering and gene editing', unit on transgenic plants. Dr. Mhatre suggested clubbing all the types of plant vectors together.
5. In practical paper 501 of the same semester, Dr. Mhatre suggested removal of Barr body identification as it did not relate with the theory.

6. In practical paper 502 of the same semester, Dr. Mhatre and Dr. Golwalkar suggested introduction of genetics based practicals such as blue-white screening, gradient plate and conjugation.
7. Agri-biotechnology had been split into two parts, with 2 units in sem V and 2 units in sem VI, Dr. Kulkarni advised that the papers be named differently in both the semesters, like in sem VI it can be called 'Advanced Agri-biotechnology'
8. In the applied component of semester VI, (Business Innovation), Mr Chavan suggested inclusion of supply chain management.
9. In practical paper 602, the board felt there is no pharmacology practical and suggested we include LD50 practical
10. In practicals of applied component, which is business innovation, Mr. Chavan suggested adding case studies of successful Indian business ventures.
11. Next, the SYBSc Biotechnology syllabus under NEP was taken up for discussion.
12. The board was mostly satisfied with the syllabus.
13. In semester III, 'Tools of molecular biology' (VSC) Dr. Mhatre suggested changing the name of the practical 'Genomic DNA isolation for animal cells' to a more specific title, such as 'Genomic DNA extraction for human cheek cells'.
14. In semester IV major practicals of immunology, Dr. Mhatre suggested mentioning the types of immunoelectrophoresis that will be covered in the paper.
15. The board was satisfied with the composition and content of most of the papers suggested under NEP. Ms. Mali suggested that under AEC it is better to give advanced English as 'Modern Indian Language ' instead of regional languages such as Hindi, Marathi, or Sindhi, as it would be more beneficial for the students.

Ms. Vinaya Jategaonkar
Chairperson