

Department of Biotechnology
JSS College for Women (Autonomous), Saraswathipuram, Mysore-09

Proceedings of Meeting of Board of Studies in Biotechnology – 27-10-2022

Sl no	Name & Address	Designation	Signature
1	Dr. Abhijith M Singh, Assistant professor & HOD Department of Biotechnology, JSSCW	Chairperson	Sd/-
2	Dr. Geetha N Professor, DoS in Biotechnology University of Mysore	University Nominee	Sd/-
3	Dr. Ramith Ramu Assistant professor, Department of Biotechnology FLS, JSSAHER, Mysore	AC Nominee	Sd/-
4	Dr. Rajesha J Associate Professor, Dept. of Biochemistry Yuvaraja's College Mysore	AC Nominee	Sd/-
5	Dr. Niranjan Raj Associate Professor, DoS in Microbiology, KSOU Mysore	Other University	Sd/-
6	Dr. Uday Shankar Assistant Professor, ICAR, DoS in Biotechnology UOM, Mysore	Subject Expert / Industry Representative	Sd/-
7	Maheshwari.M.S Assistant professor in Biotechnology,JSSCW	Senior faculty & Alumni	Sd/-

1. BOS Meeting was held on 27-10-2022.
2. In view of NEP-2020 syllabus for the academic year 2022-23, the syllabus of both theory and practicals was thoroughly discussed.
3. The Board of Studies approved the Syllabus, Scheme of teaching, examination pattern, department regulations and panel of examiners.
4. The board also suggested incorporating changes (in any case/ arising in future with respect to scheme/ pattern/ credits) with respect to the regulation of Autonomous College.
5. The syllabus of 3rd and 4th semester should be effective from the Academic year 2022-2023 under NEP Scheme.
6. Minor Changes incorporated in 1st and 2nd Semesters Practicals (Experiments) is also approved and annexed herewith.

**Minor Changes incorporated in 1st and 2nd Semesters in Practicals (Experiments)
only for the Academic Year 2022-2023**

1st Semester

Name of the experiment in 2021-2022	Name of the experiment replaced in 2022-2023
Study and maintenance of simple and compound microscope	Study of the process of plasmolysis using leaves of Tradescantia or Rheo
Addition of one extra experiment	
Study of mutagenic effects of food colours and UV radiations on Chromosomes	

Justification:

- Topics like Mechanism of plasmolysis and methods of disintegration of cells forms the basis to learn the cellular component extraction in future semesters.
- It is also very important to learn the mutagens present if food causing genetic diseases hence one extra experiment is introduced

2nd Semester

Name of the experiment in 2021-2022	Name of the experiment replaced in 2022-2023
To study the principle and applications of important instruments (biological safety cabinets, autoclave, incubator, BOD incubator, hot air oven, light microscope, pH meter) used in the laboratory.	Identification of some fungal colonies from fruits and vegetables (Rhizopus, Penicillium, Aspergillus using temporary mounts)
Sterilization of medium using Autoclave and assessment for sterility	Antibiotic sensitivity test by disc diffusion test
Sterilization of glassware using Hot Air Oven and assessment for sterility	Isolation of Rhizobium from root nodules
Sterilization of heat sensitive material by membrane filtration and assessment for sterility	Turbidometry
Addition of one extra experiment	
Identification of microorganisms from skin , mouth & milk	

Justification:

Four experiments were replaced as the students study in detail in theory. Turbidometry is introduced to learn bacterial growth curve , isolation of rhizobium is introduced to learn its Agricultural importance. It is also important to learn microbes present in milk, mouth, skin, fruits & vegetables. Antibiotic sensitivity test is introduced to learn the mechanism of resistance of various drugs.