



ST. IGNATIUS COLLEGE OF EDUCATION (AUTONOMOUS)

Accredited by NAAC at Grade A+ with CGPA 3.42 (Third Cycle)

(Affiliated to Tamil Nadu Teachers Education University, Chennai)

Palayamkottai – 627 002

BIOLOGICAL SCIENCE LABORATORY-2026-27

Principles and Procedures

- ❖ The laboratory consists of a rich collection of scientific instruments, models, specimens, chemicals, apparatus, and instructional resources that help students develop scientific curiosity and logical thinking.
- ❖ Students are motivated to observe, collect, examine, and interpret information related to life processes, organisms, and biological concepts through hands-on experiments.
- ❖ Before starting any practical activity, students should have a clear understanding of the aim, procedure, and learning objectives of the experiment.
- ❖ Each student is required to maintain a neat and systematic science practical record with proper observations, labelled diagrams, results, and conclusions.
- ❖ Students must listen carefully to the teacher's directions and seek immediate guidance whenever they have doubts or difficulties.
- ❖ Adequate precautions and safety practices should be observed while using, mixing, or transferring chemicals and reagents.
- ❖ Biology practical work should be conducted strictly under the direct supervision and guidance of the teacher.
- ❖ Food, beverages, cosmetics, and any form of unsafe behaviour are not permitted within the laboratory premises.
- ❖ Mobile phones, earbuds, and other personal electronic gadgets should not be used during practical classes or while experiments are being performed.
- ❖ Students should clean and disinfect their working area before and after every laboratory session using the recommended disinfectant and paper towel.
- ❖ Laboratory materials such as apparatus, models, and equipment must be handled responsibly and returned safely. Any loss or damage will be recorded in the breakage register, and the concerned student will be liable for it.
- ❖ Students are expected to wear laboratory coats, gloves, and other required protective materials during practical sessions whenever necessary.
- ❖ Used specimens, chemical remains, and other waste materials must be discarded only in the assigned waste containers as instructed by the teacher.

S. S. Suresh *Medona*
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BIOLOGICAL SCIENCE LABORATORY- 2025-26

Principles and Procedures

- ❖ The Biological Science Laboratory offers engaging, hands-on experiences that enable student teachers to perform scientific experiments relevant to real-world classroom applications.
- ❖ The lab is well-resourced with a diverse array of scientific instruments, anatomical models, preserved specimens, laboratory tools, chemicals, and instructional aids designed to inspire scientific inquiry and critical thinking.
- ❖ The laboratory provides an environment that fosters independent learning and significantly contributes to the intellectual and academic advancement of students.
- ❖ Involvement in laboratory sessions enhances analytical thinking and encourages creativity in approaching scientific problems.
- ❖ Students are guided to apply theoretical concepts through structured experimental work, allowing for deeper understanding and practical application.
- ❖ Students are expected to observe biological processes, collect data, and interpret results pertaining to living organisms and related phenomena.
- ❖ Students are required to comprehend the objectives and procedures of each experiment and accurately document their work in a science experimental record.
- ❖ Students are expected to follow the instructions given by the faculty with attention and precision.
- ❖ Work area must be cleaned and disinfected at the beginning and end of each session using approved disinfectants and disposable cleaning materials.
- ❖ Any breakage or loss of lab apparatus, models, or materials should be promptly reported and documented in the breakage register.
- ❖ Eating, drinking, and the use of cosmetics are strictly prohibited in the laboratory to prevent contamination and ensure safety.
- ❖ The use of mobile phones, earphones, and other electronic devices is not permitted during laboratory activities.

Sr. Dr. Saravathi Theodoran
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BIOLOGICAL SCIENCE LABORATORY- 2024-25

Principles and Procedures

- ❖ The Biological Science Laboratory provides immersive, hands-on learning opportunities for student teachers to perform experiments relevant to classroom instructional practices.
- ❖ The laboratory is equipped with a comprehensive range of scientific instruments, biological models, preserved specimens, laboratory apparatus, chemicals, and educational aids to promote scientific curiosity and critical thinking.
- ❖ The laboratory environment encourages independent thought and contributes significantly to the academic and intellectual growth of students.
- ❖ Participation in laboratory activities enhances problem-solving capabilities and promotes creativity in scientific learning.
- ❖ Students are motivated to convert theoretical knowledge into practical applications through guided experimentation.
- ❖ Students are strictly prohibited from conducting unauthorized experiments or using laboratory materials without prior permission from the instructor.
- ❖ Students are expected to observe biological processes, collect data, and interpret results pertaining to living organisms and related phenomena.
- ❖ Students are required to comprehend the objectives and procedures of each experiment and accurately document their work in a science experimental record.
- ❖ Students are expected to follow the instructions given by the faculty with attention and precision.
- ❖ All laboratory workstations must be cleaned and disinfected at the beginning and end of each session using approved disinfectants and disposable cleaning materials.
- ❖ Any damage to or loss of laboratory equipment, models, or materials must be reported immediately and recorded in the breakage register.
- ❖ Eating, drinking, and the use of cosmetics are strictly prohibited in the laboratory to prevent contamination and ensure safety.
- ❖ The use of mobile phones, earbuds, and other electronic devices is not allowed during laboratory sessions or in designated work areas.

Sr. D. Sasanthi Medonaz

PRINCIPAL

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