



## ST.IGNATIUS COLLEGE OF EDUCATION (AUTONOMOUS)

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

Affiliated to Tamilnadu Teachers Education University, Chennai

Palayamkottai – 627 002

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### PHYSICAL SCIENCE LABORATORY

#### PRINCIPLES AND PROCEDURES-2022-2023

Physics laboratory is a place where experiments of Physics are carried out. As we know physics is that branch of science where experimentation is an integral part of the core subject.

#### ROLE

It is in the laboratory that physical science students learn to practice the activities of scientists - asking questions, performing procedures, collecting data, analyzing data, answering questions, and thinking of new questions to explore.

#### DESIRED OUTCOMES OF LABORATORY EXPERIENCES:

**Enhancing mastery of subject matter.** Laboratory experiences may enhance student understanding of specific scientific facts and concepts and of the way in which these facts and concepts are organized in the scientific disciplines.

**Developing scientific reasoning.** Laboratory experiences may promote a student's ability to identify questions and concepts that guide scientific attitude.

#### PHYSICAL SCIENCE LABORATORY SAFETY

- Food and drink are not permitted during class in the lab at any time.
- Do not come in the lab early unless the instructor is present.
- Do not wear loose hair or clothing around moving equipment.
- Wear safety glasses during a lab experiment.
- Do not set equipment too close to the edge of the table.
- Do not activate any circuit or apparatus until the instructor inspects it.
- Never touch a possibly live circuit and Do not touch electrical equipment with wet hands.
- Only use laboratory equipment for the instructional purpose for which they were intended.

- Never look directly in the beam of a laser and light from a lamp used for the experiment.
- All trash and waste materials should be disposed of in the proper container. Do not pour chemicals into the laboratory sink.
- Do not short the electrical leads on any equipment.
- Do not take apart any apparatus or piece of equipment.
- All damaged equipment and chemical spills should be immediately reported to the laboratory instructor.
- Accidents and emergencies must be immediately reported to the laboratory instructor.
- Never remove any computer components (especially the mouse and keyboard).
- Do not shut down or turn on (or log in) the computer unless instructed to do so by the lab instructor.
- Leave your lab station neat, clean and organized at the end of each lab period.
- Be aware that fire extinguishers are located in Rooms.
- Any apparatus used is broken or returned in damaged condition charges will be levied
- Regular attendance for laboratory work is mandatory.

*Sr. Sr. Vasanthi Medonay.*

Signature of the principal

*N. O. S. S. Jebarajeta Jenter.*

Signature of the Instructor

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