



ST. IGNATIUS COLLEGE OF EDUCATION

(AUTONOMOUS)

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

Palayamkottai – 627 002

PHYSICAL SCIENCE LABORATORY

PRINCIPLES AND PROCEDURES-2023-2024

Physical science laboratory is a place where experiments on Physics and chemistry are carried out. These branches of science are where experimentation is an integral part.

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 RULES:

- 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.

S. L. Varasathi Medona

Signature of the principal

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S. Jebasheela Jenifer.*

Signature of the Instructors