



UNDERGRADUATE COMPETITION
**Innovative Experimental Setup to Teach
Physics**
Application / Registration Form – 2026

IPSL UNDERGRADUATE
INNOVATIVE EXPERIMENTAL SETUP TO TEACH PHYSICS
APPLICATION / REGISTRATION FORM

Registration deadline
31 August 2026

Final submission deadline
30 September 2026

Final showcase
27 November 2026

Application / Registration ID (for IPSL use): _____

Purpose: Register an undergraduate entry proposing an original, safe, reproducible and effective experimental setup that helps students understand physics through hands-on laboratory learning.

Note: This form is intended for registration and an initial concept description. The detailed final project submission may be collected separately by the submission deadline.

A. APPLICANT DETAILS

Full name	_____
Name with initials	_____
University / Institution	_____
Faculty / School	_____
Department / Programme	_____
Degree programme	_____
Current year / level	_____
Student registration no.	_____
Email address	_____
Mobile number	_____

Additional participant(s), if applicable and permitted by the competition rules:

Name	University / Institution	Student Reg. No.	Email / Mobile

B. PROPOSED EXPERIMENTAL SETUP – INITIAL CONCEPT

Proposed title

Primary physics area

☐ Mechanics ☐ Waves ☐ Optics ☐ Electricity & Magnetism ☐ Thermal Physics
☐ Modern Physics ☐ Electronics ☐ Other: _____

Target learner level

☐ School laboratory ☐ First-year undergraduate ☐ Advanced undergraduate
☐ Other: _____

Current status

☐ Idea only ☐ Basic design prepared ☐ Prototype under development ☐ Working prototype

1. Physics concept / learning difficulty addressed (maximum 100 words)

What concept should students understand better through this setup?

2. Brief description of the experimental setup (maximum 180 words)

Describe the main components, how the setup works, and what students will do or measure.

3. Innovation and teaching value (maximum 120 words)

What is new or improved compared with a conventional demonstration or laboratory activity?

4. Reproducibility, cost and accessibility (maximum 100 words)

Explain how another teaching laboratory could reproduce the setup using reasonably available materials or equipment.

C. SAFETY AND PRACTICAL FEASIBILITY

Main hazards, if any	☐ None identified ☐ Electrical ☐ Optical / laser ☐ Thermal ☐ Mechanical ☐ Radiation ☐ Chemical ☐ Pressure / vacuum ☐ Other: _____
Estimated build cost	LKR _____ (approximate)
Main materials / equipment	_____ _____
Safety controls (maximum 100 words)	
State the precautions, protective measures, or operating limits required for safe student use.	
_____ _____ _____	

D. SUPPORTING INFORMATION

Academic mentor / supervisor (optional)	Name: _____ Designation: _____
	Department / Institution: _____
Supporting attachment(s)	☐ Simple sketch / schematic ☐ Photograph ☐ Block diagram ☐ Preliminary data ☐ Other: _____

E. APPLICANT DECLARATION

- ☐ I confirm that I am currently an undergraduate of a state or private university in Sri Lanka.
- ☐ I confirm that the proposed work is my/our original work and that any external sources, designs or ideas will be appropriately acknowledged.
- ☐ I understand that the experimental setup must be safe, reproducible and suitable for teaching physics through hands-on laboratory learning.
- ☐ I agree to follow the competition rules, submission requirements and safety instructions communicated by the Institute of Physics Sri Lanka (IPSL).
- ☐ I understand that dates may be subject to change and that updates will be communicated through IPSL channels.

Applicant name	_____
Signature	_____
Date	_____