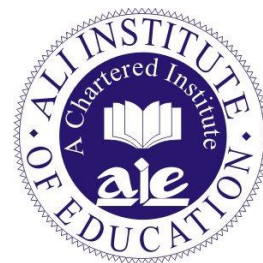




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PRACTICAL PHYSICS TEACHER TRAINING WORKSHOP: CALL FOR PARTICIPATION

Dear teachers and educators,

Khwarizmi Science Society (KSS) and Ali Institute of Education (AIE) have initiated a joint Teacher Training Program, فکر انگیز سائنسی تعلیم *Thought-provoking Science Education*. In this program, we will focus on teaching of **practical physics** through thought-provoking, innovative and exciting experiments. The program comprises of three independent interactive workshops, the second of which will take place on **22nd to 24th November, 2018** at the Ali Institute of Education, Ferozpur Road, Lahore.

The purpose of this workshop is to enable physics teachers to learn about the culture of modern physics experimentation preparing them to design and deliver modern, exciting and insightful physics experiments to their students. By the end of the workshop, the participants will be able to get exposure to

1. **building experimental hardware** from low-cost items;
2. use **modern gadgets and techniques** such as video tracking and physics using the smartphone;
3. **plotting and interpretation of data**, and
4. connecting the laboratory to the classroom.

The hand-picked experiments to be offered in this workshop are designed based on topics selected from the syllabi of Grades 9 to 12 (matric to intermediate) and O levels. These four-five experiments will not be a replica of experiments traditionally performed by students in our laboratories, rather they are thought-inspiring experiments designed to highlight how physics practicals, in our opinion, should be conducted in an enabling, skills-oriented and contemporary fashion. All experiments will be low-cost and will become fodder for ideas for teachers who could recreate their own experiments to amplify physics topics in their textbooks.

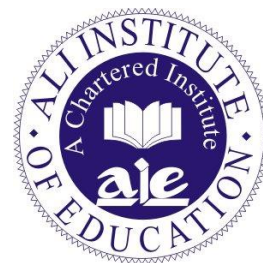
Coverage areas: The coverage of these experiments will be from mechanics, optics, thermodynamics, basic electronics, waves and vibrations.

Laboratory skills: measurement, uncertainties, graphing, data processing, using the camera and the smartphone for physics experiments, building hardware, connecting theory with experiment, interpreting experimental results.

We are pleased to invite you to participate in the workshop. If you teach physics, especially practical physics, conduct laboratory training for your students, want to set up new labs, are



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motivated about physics education and would like to usher in radical reforms to how physics is taught in your school, or are a headmaster or headmistress and would like to nominate some talented individual from your school or college, [please fill out the registration form](#).

Registration is required to participate in the workshop. Once the [registration form](#) is filled, the participants will be selected and shortlisted on basis of their willingness to learn, background and inclination towards practical aspects of teaching. Further details are provided below:

- Date: 22nd - 24th November, 2018
- Venue: Ali Institute of Education, Ferozpur Road, Lahore
- Timings: 10:00 am - 05:00 pm
- **Registration Deadline: 18th November, 2018**
- Registration Fee: Rs. 1500 (to be paid by ATM transfer before 20th November; details will be sent by email)
- Accommodation provided: No
- Certificates provided at the end of the workshop: Yes

We look forward to your nominations or registrations.

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