



Workshop for Physics Teachers

Selected Topics in Mechanics

Thursday, December 27, 2018

10:00 am - 3:30 pm

**Venue:
SBASSE 201, LUMS, Lahore**

Register by
Saturday, December 22, 2018

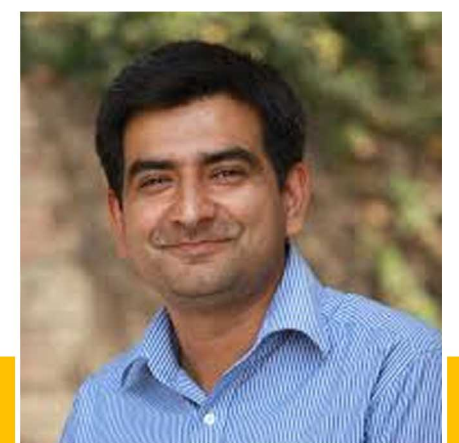
Registration link
<https://tinyurl.com/y7vsedak>

No registration fee,
but prior registration is required.

The workshop is designed for FSc/A Level/College physics teachers. Expert instructors will demonstrate how to teach concepts in Mechanics, that experience shows, are weakly grasped by even the best students. The lectures on theory will include free-body diagrams, rotational motion, angular momentum, illustrated by examples from daily life. Demonstrations of in-class experiments will include collisions of objects tracked by a camera, acceleration measurements by a smartphone, and how Lenz's law can affect the motion of objects. A lecture will discuss the meaning of scientific literacy, by showing concept trees of how primary and secondary school teaching links to university physics, chemistry and biology, and ultimately how this can enable a well educated person to understand the workings of nature.



Instructors



Professor Asad Abidi received the BSc degree in Electrical Engineering from Imperial College, London in 1976, and the PhD from the University of California, Berkeley in 1982. He worked at Bell Laboratories, Murray Hill until 1985, and then joined the faculty of the University of California, Los Angeles where he is Distinguished Chancellor's Professor of Electrical Engineering. The University of California, Berkeley's Department of EECS recognised him as a Distinguished Alumnus in 2015. He was elected Fellow of IEEE in 1996, Member of the US National Academy of Engineering, and Fellow of TWAS, the World Academy of Sciences. Professor Abidi also holds the Abdus Salam Chair at the Syed Babar Ali School of Science and Engineering, LUMS.

Dr. Muhammad Sabieh Anwar is an Associate Professor of Physics at the Syed Babar Ali School of Science and Engineering (SBASSE). He helped establish the Physics Department and was among the principal founders of the School's experimental facilities and curriculum. Ideas from his physics instructional laboratories have been replicated in five Pakistani universities. He is the General Secretary of the Khwarizmi Science Society which is aimed at popularization of science at the grassroots levels. Prior to joining SBASSE in 2007, Dr. Anwar was a postdoc in Chemistry and Materials Science at the University of California, Berkeley and a PhD student, as a Rhodes Scholar, at Oxford University. He is the recipient of the TWAS medal in Physics 2008 and the National Innovation Prize 2015.

Contact Persons:

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Organised by:

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