

## Summary of Session 1 of Training under STEM education at LCWU

**Date:** 15 March 2022 (Tuesday)  
**Venue:** Lahore College for Women University, Lahore, Pakistan  
**Themes:** Teaching the epistemology of science through experiments  
How to design a modern teaching laboratory  
Experiments to enliven your classroom  
Tools for thought-provoking experiments in physical sciences

### **Session 1 (9:30 am to 11:30 am)**

**Topic:** The Method of Science with Class Demonstrations and Experiments

### **Session 2 (11:45 am to 1:00 pm)**

**Topic:** Communicating science outside classrooms (Speaker: Mohsina Asif)

### **Session 3 (1: 45 pm to 4:30 pm)**

**Topic:** Developing Laboratories: Tools for thought-provoking experiments in physical sciences

#### **Lead Trainer: Dr Muhammad Sabieh Anwar**

Dr. Muhammad Sabieh Anwar is a Professor of Physics, Ahmad Dawood Chair and Dean at the LUMS Syed Babar Ali School of Science and Engineering. He helped establish the physics department at LUMS and was among the principal founders of the School's experimental facilities and curriculum. Ideas from his physics instructional laboratories have been replicated in ten Pakistani universities. He has played an important role in introducing innovative learning tools, mostly revolving around insightful homegrown physics experiments, in Pakistan's universities. Sabieh is also the General Secretary of the Khwarizmi Science Society which is focused on the popularization of science at the grassroots levels.



#### **Fellow Speaker: Mohsina Asif**

Mohsina Asif is a mechanical engineering graduate from UET Lahore and currently works as a Research Associate/Application Engineer at the Department of Physics, LUMS. For more than 7 years, she has also been involved in several science communication and journalism activities. She is the Science Communicator (and projects coordinator) of Khwarizmi Science Society, the oldest non-profit science popularization movement of the country and has also been a crusading force in the establishment of Spectra, a student-powered online science magazine.

