



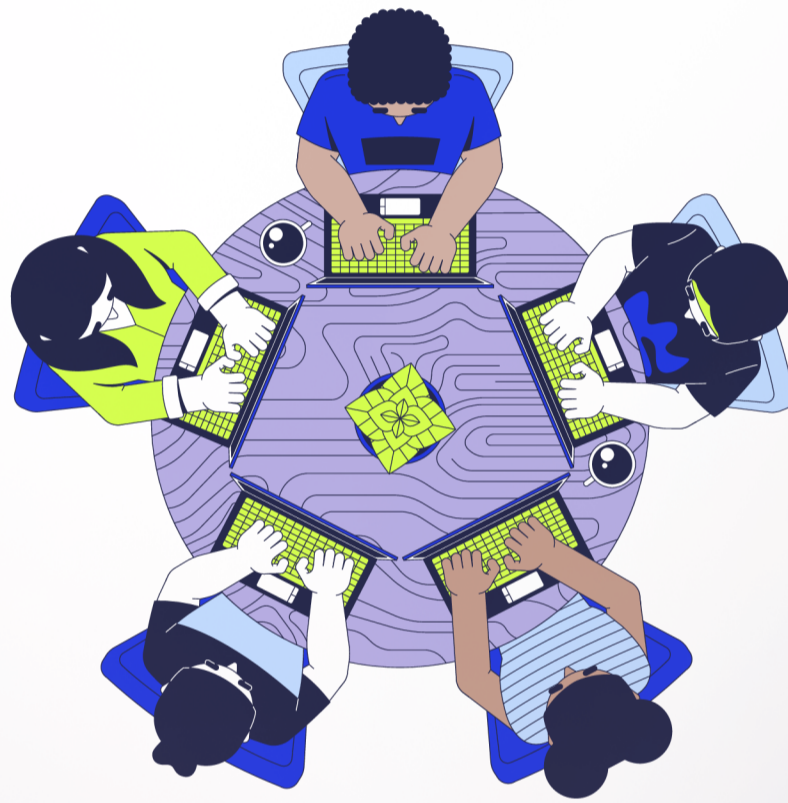
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# Building Mathematical Capacity against social discrimination: A Pilot Youth Hackathon Initiative

Implemented by the International Mathematics Master (IMM)  
Funded by the Elsevier Mathematical Sciences Sponsorship Fund



**Youth Hackathon Initiative – June 13 2026, 9am-7pm**

**Panel Event – June 14 2026, 10am-1pm**

A youth-focused program that brings mathematical thinking to the forefront of social transformation. Through a hackathon and a panel event held the project equips young mathematicians to analyse, model, and propose solutions to systemic discrimination by bridging rigorous mathematical tools with critical thinking. The most challenging issues of discrimination, inequality and exclusion and the most promising actions and solutions will be the engine of the panel reflections to scale youth potential and collective actions for a transformative future.



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# Youth Hackathon Initiative

***June 13 2026, 9am-7pm***

A full-day, group-based mathematical hackathon in which 30 selected BSc students will work on modelling real-life discrimination issues at local and regional level including:

Spread and dynamics of social discrimination  
Inequalities in educational access  
Decision-making biases and the job market  
Intersectional barriers

Participants will develop models using differential equations, stochastic processes, optimisation, and/or data analysis supported by IMM student as facilitators.

Results will be presented during the panel event on Sunday June 14, after which a lunch gathering will be offered.

## ***Hackathon schedule***

***9am-10am*** Project and social issues introduction & groups division

***10am-11am*** Groups presentation & challenge explanation

### ***Coffee break***

***11:15am-1:15pm*** Issues brainstorming and approach selection

### ***Lunch break***

***2:15pm-4:15pm*** Modelling and solution design

### ***Coffee break***

***4:30pm-6:30pm*** Solution finalisation & presentation

***6:30pm-7pm*** Validation & delivery



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# Building Mathematical Capacity against social discrimination: Panel Event

**June 14 2026, 10am-1pm**

The most challenging issues of discrimination, inequality and exclusion and the most promising actions and solutions will be the engine of the panel reflections to scale youth potential and collective actions for a transformative future for STEM education. Results from the youth hackathon will be presented during the panel.

## **Speakers**



**Prof. (Dr.) Mohammad Nizamuddin (S.I)**

Pro-Rector - Superior University, Lahore

Chairperson BOD - KITAAS & THE NIZAM TRUST



**Prof. Farzana Arshad**

Assistant professor - Government College  
University Institute of Global and Historical Studies



**Dr. Shahid Soroya**

Director, COMSATS University, Islamabad,  
Sahiwal Campus

*Introduction: Prof. Dr. Khurram Shabbir, Director General AS-SMS and Professor of Mathematics; Prof. Dr. Muhammad Omer Chaudhry, Vice Chancellor AS-SMS*  
*Moderation: Celeste Luciano, project manager, The International Mathematics Master A.P.S.*

**Main hall, Abdus Salam School of Mathematical Sciences,  
68-B, New Muslim town, Lahore**

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