

VIGYAN PRATIBHA TEACHERS WORKSHOP

17/07/2023 to 21/07/2023 IISER Kolkata

Program Schedule

Day 1 (17/07/2023, Monday)

Time	Event (for both Math and Sc)	Venue	Venues: ACA - Ashima Chatterjee Auditorium 2nd Floor, Teaching and Research Complex (N215) SGL - Structural Geology Lab , Ground Floor, Teaching and Research Complex (N012) BL: Biology Laboratory , 2nd Floor, Administrative and Academic Complex MN Saha Aud: Ashima Chatterjee Auditorium Ground Floor, Teaching and Research Complex LHC: Lecture Hall Complex
8:00–9:30	Registration and Breakfast	ACA	
9:30-10:30	Intro. to Vigyan Pratibha Project	ACA	
10:30-10:45	Overview of the Workshop	ACA	
10:45- 11:00	Tea Break	ACA Lobby	
11:15- 13:00	mLU5 (Fractals)	SGL	
13:00- 14:00	Lunch	LHC Lobby	
14:00-15:30	Magic of Chemistry	ACA	
15:30- 15:45	Tea Break	ACA Lobby	
15:45-17:15	LU6 (Measuring Vol)	BL	
17:15- 18:00	High Tea	ACA Lobby	
20:00-21:00	Dinner	LHC Lobby	

Day 2 (18/07/2023, Tuesday)

Time	Science LU	Venue (Sc.)	Math LU	Venue (Math)
8:30 - 9:30	Breakfast	ACA Lobby		
9:30-11:00	sLU8 (Protein in Food)	BL	mLU8 (Map Colouring)	SGL
11:00-11:15	Tea Break	BL Lobby	Tea Break	ACA Lobby
11:15-12:45	sLU3 (Biodiversity)	BL	mLU6 (Irrational Number)	SGL
12:45-13:45	Lunch	LHC Lobby		
13:45-15:30	Climate Awareness	ACA	Climate Awareness	
15:30-15:45	Tea Break	ACA Lobby	Tea Break	ACA Lobby
15:45-17:15	sLU8 (Protein in Food)	BL	mLU3 (Polygon)	SGL
17:15-18:00	High Tea	ACA Lobby		
20:00-21:00	Dinner	LHC Lobby		

Day 3 (19/07/2023, Wednesday)

Time	Science LU	Venue (Sc.)	Math LU	Venue(Math)
8:30 - 9:30	Breakfast	ACA Lobby		
9:00 – 11:00	FoldScope	SGL	FoldScope	SGL
11:00 – 11:15	Tea Break	ACA Lobby		
11:15 – 12:45	Incomplete LU	ACA	Incomplete LU	ACA
12:30-13:30	Lunch	LHC Lobby		
13:45–	Exposure Visit			
16:15-17:15	Documentary	MN Saha Aud		
17:15-18:00	High Tea	ACA Lobby		
20:00-21:00	Dinner	LHC Lobby		

Day 4 (20/07/2023, Thursday)

Time	Science LU		Math LU	Venue(Math)
8:30 - 9:30	Breakfast	ACA Lobby		
9:30-11:00	sLU2 (Pinhole Camera)	SGL	mLU3 (Polygon)	SGL
11:00-11:15	Tea Break	ACA Lobby		
11:15- 12:45	sLU2 (Pinhole Camera)	SGL	mLU2(DotGrid)	SGL
12:45-13:45	Lunch	LHC lobby		
13:45-15:30	sLU7 (Adolescence)	ACA + SGL	sLU7(Adolescence)	ACA+SGL
15:30-15:45	Tea Break	ACA Lobby		
15:45-17:00	Discussion on Implementation	ACA		
17:15-18:00	High Tea	ACA Lobby		
20:00-21:00	Spcl. Dinner	LHC Lobby		

Day 5 (21/07/2023, Friday)

Time	Science LU	Venue (Sc)	Math LU	Venue (Math)
8:30 - 9:30	Breakfast	ACA Lobby		
9:30-11:00	sLU9 (Wood Ash)	BL	mLU1 (Square Number)	SGL
11:00- 11:15	Tea Break	BL Lobey	Tea Break	ACA Lobby
11:15-12:45	LU9 (Wood Ash)	BL	mLU1 (Square Number)	SGL
12:45-13:45	Lunch	LHC lobby		
13:45-15:30	Vision: Perception vs Reality	ACA	Vision:Perception vs Reality	
15:30-15:45	Tea Break	ACA Lobby		
15:45-16:45	Discussion with teachers, Teachers feedback & Closing	ACA		
16:45-17:00	High Tea	ACA Lobby		
20:00-21:00	Dinner	LHC Lobby		

Learning Units

ID	Topic	Requirement
sLU2	Pinhole Camera [Class 8] 90min x2 Dr. Bipul Pal	Black chart paper, tracing paper/translucent polythene sheet, printed ruler on paper or graphpaper, measuring tape, scissors, adhesive, cutter, sticky tape, aluminium foil used in kitchen.
sLU3	Biodiversity [Class9] 90min Dr. Anuradha Bhat	1. Ruler 7. Pen 2. Protractor 8. Eraser 3. Sets square (45-45-90) 9. Sharpner 4.Sets square (30-60-90) 10. Pencil 5. Divider 11. Colour pencil 6. Compass
sLU6	Measuring Volume [Class 8] 90min x2 Dr. Deepa Chari	• A narrow transparent cylinder (or a transparent,500 mL water bottle) • Glass marbles (~40) of similar size • Small irregular stone • Ruler • Marker pen (fine-tipped) • Straight edge (like another ruler or edge of a notebook) •20 mL of 50 mL measuring flask
sLU7	Adolescence Class8] 90 min Dr. Anindita Bhadra	Chart paper, sketch pens, post it, rulers, A4 paper
sLU8	Protein in Food [Class 9]90min x2 Dr. Soumen Manna	Food grains:a) White rice b) Wheat, c) Bajra OR Jowar (serves as the mystery grain) d) Chana or Moong dal, e) Black chana/ Whole moong(d) Any split dal – Toor (Arhar), Udad, or Masur 2. Weighing balance 3. 250 ml beakers or conical fasks for heating (6 – 12) 4. Measuring cylinders (100 ml capacity) 5. Electric heating plates/Bunsen burners (with stands) 6. Scientific thermometers 7. Clear plastic bottles (~100 ml volume, 6x) 8. Deep trays that can serve as water baths, 9. Strainers10. Rulers1.
sLU9	Wood Ash [Class 8] 90min x2 Dr. Devarajulu Sureshkumar	1. Wood Ash (If wood ash is not available, then take a piece of wood and burn it in open air till it is completely burnt. Let it cool down and use it.) 2. Juice of 3-5 Lemon, squeezed and filtered through a strainer3. Funnel and filter paper (or a coarse cloth and a tea-strainer) 4. 4-5 beakers (100 or 250 mL) or any other similar containers5. Glass rod, or spoon, or spatula 6. Test tubes, test tube stand7. Litmus paper (red and blue), and turmeric powder 8. a dirty piece of cloth
mLU1	Square Numbers [Class 9] 90min x 2 Dr. Urna Basu	Graph paper, Printed number grids
mLU2	Dot Grid/Area between parallel lines [Class 8] 90min Dr. Satyaki Mazumder	Grid papers (each student will require three to four square dot grid papers), pencils. Sheets of plain paper and square grid paper, pencil, scale, compass
mLU3	Your polygon, same as mine [Class9] 90 min x 2 Dr. Ritesh Sing	Blank sheets, pencils, erasers, Geometry-boxes (Geometry compass, set-squares, protractor, and scale), scissors.
mLU5	Fractals [Class 9] 90 min Dr. P. K. Mohanty	Paper, Pencil, Magnifying Glass, Compass, Scale, Protractor, any spreadsheet program (for numerical and graphical explorations)
mLU6	Irrational Number [Class9] 90 min Dr. Somnath Basu	Geometry box, Blank sheets of papers
mLU8	Map Colouring [Class8] 90 min Dr. P. K. Mohanty	Worksheets, Pens, Pencils, Erasers, Color Boxes, Board, Projector