



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL

ISHAN VIKAS (May 16 – 25, 2016) & OUTREACH PROGRAM (May 20 – 25, 2016)

DAY-1

16/05/16	09:30 – 09:45 am	Registration of Ishan Vikas Participants
Venue – L3	10:00 – 10:10 am	Welcome address by Director, IISER Bhopal
	10:10 – 11:00 am	Speaker: Dr. Shanker Jha (Department of Biological Sciences) Talk title: “ <i>Repairing damaged brain – exercise the best medicine</i> ”
	11:00 – 11:40 am	Documentary show: <i>How the Universe works</i> Dr. Arundhuti Ghatak (Department of Earth and Environmental Sciences)
	11:40 – 12:20 pm	Speaker: Dr. Nirmal Ganguli (Department of Physics) Talk title: TBA
	12:20 – 02:15 pm	LUNCH BREAK
	02:15 – 02:50 pm	Speaker: Dr. Joyanta Choudhury (Department of Chemistry) Talk title: “ <i>What to ‘burn’ in the next century</i> ”
	02:50 – 03:50 pm	Documentary show: <i>The Quantum Indians</i> Dr. Madhumita Mukherjee (Department of Chemistry)
	03:50 – 04:20 pm	BREAK
	04:30 – 05:30 pm	<i>Computer fundamentals and programming - I</i> Mr. Vinay Bajpai (Computer Center)

DAY-2

17/05/16	10:00 – 10:40 am	Speaker: Dr. Varun Chaudhary (Department of Biological Sciences) Talk title: <i>Model Organisms for Biological and Biomedical Research</i>
Venue – L3	10:40 – 11:20 am	Speaker: Dr. Surajit Saha (Department of Physics) Talk Title: TBA
	11:20 – 12:00 pm	Speaker: Dr. Abhijit Patra (Department of Chemistry) Talk title: “ <i>The nature of the chemical bond</i> ”
	12:00 – 01:00 pm	CIF Tour (Dr. Manmohan Kapur)
	01:00 – 03:00 pm	LUNCH BREAK
	03:00 – 03:40 pm	Speaker: Dr. Amit Paul (Department of Chemistry) Talk title: TBA
	03:40 – 04:10 pm	Speaker: Dr. Saptarshi Mukherjee (Department of Chemistry) Chalk talk: <i>Basics of Atomic Structure</i>
	04:10 – 04:30 pm	BREAK
	04:30 – 05:30 pm	<i>Computer fundamentals and programming - I</i> Mr. Vinay Bajpai (Computer Center)

DAY-3

18/05/16

Venue – L3

- 10:00 – 10:40 am Speaker: Dr. Samina Azhar (MANIT)
Talk title: “*Verbal and Nonverbal Techniques of Communication*”
- 10:40 – 11:20 am Speaker: Dr. Sangit Kumar (Department of Chemistry)
Talk Title: TBA
- 11:20 – 12:20 pm *Workshop on Stress Management*
Ms. Anju Singh (Faculty, Art of Living, Bhopal)
- 12:20 – 01:30 pm LUNCH BREAK
- 01:30 – 06:00 pm Visit to Regional Science Center to commemorate International Museum Day

DAY-4

19/05/16

Venue – L3

- 10:00 – 11:00 am Speaker: Dr. Samina Azhar (MANIT)
Talk title: “*Managing Soft Skills for Personality Development*”
- 11:00 – 11:40 am Speaker: Dr. Madhumita Mukherjee (Department of Chemistry)
Talk Title: “*Chemistry colors our world*”
- 11:40 – 12:20 pm Speaker: Dr. Vinita Gowda (Department of Biological Sciences)
Talk title: “*What is ecology? Does it really evolve?*”
- 12:30 – 02:30 pm LUNCH BREAK
- 02:30 – 03:10 pm Speaker: Dr. Vineet Sharma (Department of Biological Sciences)
Talk title: “*Machine Learning and Artificial Intelligence*”
- 03:10 – 04:10 pm *Workshop on Mind Management*
Ms. Anju Singh (Faculty, Art of Living, Bhopal)
- 04:10 – 04:30 pm BREAK
- 04:30 – 05:30 pm *Computer fundamentals and programming - I*
Mr. Vinay Bajpai (Computer Center)

DAY-5

20/05/16

Venue – L1

- 09:15 – 09:50 am Registration of Outreach Participants
- 10:00 – 10:10 am Welcome address by Dean, Academic Affairs
- 10:10 – 10:50 am Speaker: Dr. J Sankar (Department of Chemistry)
Talk Title: “*Colors of Life*”
- 10:50 – 11:30 pm Speaker: Dr. Snigdha Thakur (Department of Physics)
Talk title: TBA
- 11:30 – 12:10 pm Speaker: Dr. Sourav Datta (Department of Biological Sciences)
Talk title: “*Being a Scientist*”
- 12:15 – 02:30 pm LUNCH BREAK
- 02:30 – 03:30 pm Interactive session with The Department of Chemistry
- 03:30 – 03:50 pm BREAK
- 03:50 – 04:30 pm Speaker: Dr. Manmohan Kapur (Department of Chemistry)
Talk Title: “*What’s Organic?*”
- 04:30 – 06:00 pm Drawing Competition

Judges: TBA

DAY-6

21/05/16 09:00 – 01:15 pm Biology Practicals
Venue – L1 09:00 – 11:00 am – Batch I
11:15 – 01:15 pm – Batch II
01:30 – 03:00 pm LUNCH BREAK
03:00 – 04:00 pm Interactive session with the Department of Biological Sciences
(Dr. Vimlesh Kumar)
04:00 – 05:30 pm CIF tour (Dr. Manmohan Kapur)
05:45 – 06:25 pm Speaker: Dr. Bharathwaj Sathyamoorthy (Department of
Chemistry)
Talk Title: “Molecular players in everyday life”

DAY-7

22/05/16 10:00 – 11:00 pm Interactive session with Science Council IISER Bhopal
Venue – L1 11:00 – 01:00 pm Movie Screening
01:00 – 03:00 pm LUNCH BREAK
03:00 – 05:30 pm Indoor games

DAY-8

23/05/16 09:00 – 01:15 pm Chemistry Practicals
Venue – L1 09:00 – 11:00 am – Batch I
11:15 – 01:15 pm – Batch II
01:30 – 03:00 pm LUNCH BREAK
03:00 – 03:40 pm Speaker: Dr. Chandan Sahi (Department of Biological
Sciences)
Talk title: “Designer Crops-Feeding Billions”
03:40 – 04:20 pm Interactive session with the Department of Earth and
Environmental Sciences followed by a talk on “Climate
Change & Global Warming”
Speaker: Dr. Pankaj Kumar
04:20 – 04:40 pm BREAK
04:40 – 06:30 pm QUIZ competition (Dr. Saptarshi Mukherjee)

DAY-9

24/05/16 09:00 – 01:15 pm Physics Practicals
Venue – L1 09:00 – 11:00 am – Batch I
11:15 – 01:15 pm – Batch II
01:30 – 03:00 pm LUNCH BREAK
03:00 – 04:30 pm Interactive session with the Department of Mathematics
(Drs. Ajit Bhand, Prahlad Vaidyanathan, Rahul Garg and
Senthil Raani)
04:30 – 04:50 pm BREAK
04:50 – 05:30 pm Speaker: Prahlad Vaidyanathan (Department of Mathematics)
Talk title: “Symmetry and Groups”

05:30 – 06:15 pm Interactive session with the Department of Physics
06:30 – 07:30 pm In-house cultural programme by Students Activity Council

DAY- 10

25/05/16

Venue – L1

10:00 – 10:20 pm Speaker: Dr. Aasheesh Srivastava
Talk Title: “*Swachchata Pakhwada – A step towards a cleaner India*”
10:20 – 11:00 pm Speaker: Dr. Saptarshi Mukherjee
Talk Title: “*Career opportunities in Indian Science*”
11:15 – 12:15 pm Closing remarks, Prize distribution and group photo in LHC

In-Charges for Biology Lab. (Main Campus, Bhopal By-Pass Road)
(Drs. Neetu Kalra, Prabhat Singh, Manish Pathak)

In-Charges for Chemistry Lab. (Main Campus, Bhopal Bypass Road)
(Drs. Ruchika Mishra and Sharmila Pandey)

In-Charges for Physics Lab. (Main Campus, Bhopal Bypass Road)
(Dr. Ravi Shankar Singh)

Tour to Central Instrumentation Facility (CIF): Dr. Manmohan Kapur

In-Charge, Sports Activities: Dr. Aasheesh Srivastava

Program Co-ordinator: Dr. Madhumita Mukherjee