

INSPIRE Internship Program 2024
Organized by Miranda House, University of Delhi

Schedule: Monday, 8 July to Friday, 12 July 2024

DAY 1	Monday, 8 July 2024
08.30 am to 09.30 am	Registration Miranda House (Assigned rooms will be put up on the notice board)
09.30 am to 09.45 am	Welcome Address: Introduction to INSPIRE Internship Program Prof. Bijayalaxmi Nanda, Principal Miranda House
09.45 am to 11.00 am	ICs and Devices for Strategic Applications Dr. Meena Mishra, Director Solid State Physics Laboratory, DRDO, Delhi
11.00 am to 11.30 am	Mid Day Snack
11.30 am to 01.00 pm	Climate Change and Sustainable Solutions Prof. Chirashree Ghosh, Sr. Professor, Department of Environmental Studies, University of Delhi
01.00 pm to 02.00 pm	Lunch
02.00 pm to 04.30 pm	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
04.30 pm to 05.00 pm	Evening Snack
DAY 2	Tuesday, 9 July 2024
09.00 am to 10.00 am	Fractals – From Simple Rules to Complex Outcomes Prof. Amber Habib, School of Natural Sciences, Shiv Nadar University
10.00 am to 11.00 am	Seeing the Invisible: Insights on Molecular Imaging Dr. Shubhra Chaturvedi, Scientist, Institute of Nuclear Medicine & Allied Sciences, DRDO
11.00 am to 11.15 am	Mid Day Snack
11.15 am to 01.15 pm	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
01.15 pm to 01.45 pm	Lunch
01.45 pm to 02.45 pm	Essay Session (<i>Assigned room numbers will be displayed on the notice board</i>)
02.45 pm to 04.45 pm	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
04.45 pm to 05.00 pm	Evening Snack
DAY 3	Wednesday, 10 July 2024
09.00 am to 10.00 am	Quest of Energy Materials for Next Generation Challenges Prof. Raj Kishore Sharma, Dean Research & Joint Director R&D Cell, University of Delhi
10.00 am to 11.00 am	Production and Application of Energetic Ions Dr. Dinakar Kanjilal, Former Director Inter University Accelerator Centre; DAE Raja Ramanna Fellow & Former President IPA
11.00 am to 11.15 am	Mid Day Snack
11.15 am to 01.15 pm	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
01.15 pm to 01.45 pm	Lunch
01.45 pm to 02.45 pm	Poster Session
02.45 pm to 04.45 pm	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
04.45 pm to 05.00 pm	Evening Snack
DAY 4	Thursday, 11 July 2024
09.00 am to 10.00 am	Group photographs
10.00 am to 11.00 am	From Sand to Silicon: The Making of a Computer Chip Prof. Rajendra Singh, IITD, Head, School of Interdisciplinary Research; Lead-PI, COE on Quantum Technologies & Associate Dean R&D, IIT, Delhi
11.00 am to 11.15 am	Mid Day Snack

11.15 am to 01.15 pm	Stage Science Show <i>National Science Centre</i>
01.15 pm to 02.00 pm	Lunch
02.00 pm to 03.00 pm	Scholarships, Fellowships and Career Opportunities in Science, Technology, Engineering and Mathematics (STEM) Dr. Sanjay K Mishra, Sr. Advisor Department of Biotechnology
03.00 pm to 05.00 pm	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
05.00 pm to 05.30 pm	Evening Snack
DAY 5	Friday, 12 July 2024
09.00 am to 11.00 am	Hands-on Workshop Sessions 12 Parallel Workshops* <i>Venues: DSKC Labs (Assigned room numbers will be displayed on the notice board)</i>
11.00 am to 11.15 am	Mid Day Snack
11.15 am to 12.15 pm	Cyber Security; Need of the Hour for Young Generation of the Country Prof. Sanjeev Singh, Director DUCC; Joint Director South Campus & Dean Faculty of Technology, University of Delhi
12.15 pm to 01.15 pm	What Everyone need to know about Cancer? Prof. Daman Saluja, Former Chairperson Research Council & Joint Director, Delhi School of Public Health, Institute of Eminence, University of Delhi
01.15 pm to 02.00 pm	Lunch
02.00 pm to 05.00 pm	Valedictory Session <i>Distribution of Certificates</i> Feedback

NOTE: Every morning students should sign their attendance in registers kept in the pre-assigned rooms between 8:30-8:45 AM. After this they should proceed for the sessions.

***Workshop Titles**

1. Chemistry: The Green Pathway
2. Chemistry: Colours of Gold and Silver
3. DNA and Enzymes: Tiny but Mighty Players
4. DNA: Close Encounters
5. The Cell: Life's Playground
6. Designing Life: Small Experiments
7. World of Molecules: Playing with Structures
8. Physics: Sense, Measure and Control the World
9. Robotics: Impacting Life
10. Fun with Functions
11. Remote Sensing: Map Your Environment
12. Forensics: To Catch a Thief