

Inspire Science Camp 2017						
Venue	Ramjas College, University of Delhi					
Date	July 4, 2017 to July 8, 2017					
Names of Participating Students	<table border="1" style="width: 100%;"> <tr><td>Aakriti Karmakar</td></tr> <tr><td>Aman Sharma</td></tr> <tr><td>Harshit Sharma</td></tr> <tr><td>Kartikey Gaur</td></tr> <tr><td>Vikas Sharma</td></tr> </table>	Aakriti Karmakar	Aman Sharma	Harshit Sharma	Kartikey Gaur	Vikas Sharma
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Class	XI					
Organizer	Department of Science and Technology(DST)					
	<p>Day 1: 04-07-17</p> <ul style="list-style-type: none"> • The day comprised of the scheduled lectures which started immediately after the inaugural session. • The first lecture was on Environmental Studies and the Indian Subcontinent by Prof. M.K. Pandit. Students learnt a lot of new and interesting things through the lecture. • After a small tea break, students were presented with a lecture by Prof. R. P. Bapat on various problem solving tricks in mathematics that were very useful for the students. • After the lunch, the students were indulged in practical exercises. Students performed an experiment to calculate the value of g (acceleration due to gravity) with the help of a compound pendulum. • A practical on diffraction of laser beam was also demonstrated to the students. <p>Day 2: 05-07-17</p> <ul style="list-style-type: none"> • The second day comprised of two lectures. • The first lecture was delivered by Prof. Himadri B.Bohidar (JNU, New Delhi) on the topic of "Nanoscience & Physical Sciences". The lecture threw light on the fact that it is not always necessary to answer a question but it is crucial to understand the problem, provide a solution rather than an answer. This is done to ensure that we do not stop thinking and innovating. • The second lecture was given by Prof. D.S. Rawat (Department of Chemistry, University of Delhi), who inspired students for innovative thinking and inspired research. • The day ended with practical held in the Mathematics lab where students learned about plotting graphs of various functions like trigonometric functions, greatest integer function and exponential functions through software called Mathematica and studied linear programming problems using IOR Tutorial. 					

Day 3:06-07-17

- The third day comprised of two lectures and a hand on training session.
- The first lecture was provided by "**Prof.Ajay Kumar-Delhi University**" on the topic "**Emphasis on n and e**". The lecture focused on the importance of mathematical operations like n and e and also on the other components of the different number systems like prime numbers and their usage in the cryptography by applying RSA algorithm.
- After the first lecture there was a creative scientific writing competition on the "**Energy sustainability and development.**"
- The second lecture was provided by "**Professor Anvil Grover**" on the topic "**Stress Tolerant Transgenic Crops - The future agriculture**". The lecture was based on the making of transgenic crops by recombinant DNA technology and the creation of such crops that could give best results even under stressful conditions that could be either moisture related or temperature related problems.

The day ended with the practical held in zoology laboratory where the students performed two experiments one was on how to grow and propagate a bacteria culture and the second one was on the identification of gram positive and gram negative bacteria. Several machineries like incubator-shaker and autoclave were shown to us.

Day 4: 07-07-17

- The fourth day comprised of two lectures and a hands on training session.
- The first lecture was provided by **Prof. V. V. Ramamurthy (Division of Entomology Indian Agricultural Research Institute)** who told the students a great deal about **insects and how they are important to the ecosystem.**
- The second lecture was delivered by **Prof. Arvind (Indian Institute of Science Education and Research)** who talked about the **fundamentals of the Quantum World.** The lecture was very interesting and informative.
- After lunch, students were engaged with hands on training session. Here the **students isolated genomic DNA from a cauliflower tissue**, studied the **mitosis from squash preparation of onion root tip**, demonstrated and calculated the **frequency of non- tasters and tasters in a given population**, created the **allele and genotype frequency** and constructed a **pedigree chart** for the same.

Day 5: 18-12-16

- The last day kick started with a very interesting lecture by **Professor S.K Dogra - FNA, Delhi** on the topic **"Chemistry is bigger than life"**. The lecture composed of knowledge about several elements and their revolving electrons and the lecture also made us aware about the elements like fluorine and their amazing properties like its the only oxidant that dissolves water.
- The final lecture of the day was delivered by **Professor Santosh Kumar** on the topic **"Geology - A field of observational science "** **It was about the various minerals and the facts about the earth and its several landscapes.**
After the session all the participants were awarded with certificates of appreciation.