

## **ANANTA -Science Society (2018-2019)**

**Inauguration Day  
(11<sup>th</sup> October 2018)**

### **Formation of Science Society**

In the era of rapidly advancing frontiers of Science and Technology, ANANTA- the Science Society of Indraprastha College for Women was launched by Principal Dr. Babli Moitra Saraf on 11th October 2018. It has been launched as an academic society which acts as a torch of discovery for the young budding scientists to quench their thirst for knowledge. It was formed as a result of the collective efforts of the five departments namely Computer Science, Environmental Studies, Geography, Mathematics and Psychology, as five pillars under the auspices of the society. Members of Ananta undertake the responsibility for the cultivation of awareness, the encouragement of critical thinking and the involvement of students in numerous activities under the supervision and guidance of the departmental advisors - Ms. Ritu Singhal, Dr. Chander Shekhar , Dr. Anindita Sarkar , Ms. Davis, Mr. Abhinav Garg, Ms. Deepti Chopra, Mr. Harendra Pratap Singh, and Ms. Ayanika Ray. Ms. Ritu Singhal is the coordinator of the society along with Ms Saachi, the President, Ms. Neeha Rawat, the Vice-President and Ms. Kamalpreet Kaur, the Technical Head.





### **Digital Logo Designing Competition**

Prior to ANANTA's inauguration, a Logo designing competition was conducted on an online platform to design a logo suitable for the society and its virtues. It is an 'Infinity' symbol, signifying the state of being infinite, endless, and limitless. The quintessence of the logo lies in its quote, "Exploring the unexplored", which taps on the core of Science and encourages one to ideate, innovate and implement; and 'Sarvolochanvigyaanm' which means- Science is the only Eye.

### **Inauguration by Principal and Talk on E-waste Management by Dr. K.D. Gupta**

The unveiling of the logo by Dr. Babli Moitra Saraf, embarked the beginning of inaugural ceremony of ANANTA, followed by the badge distribution to the corresponding post holders and an insightful speech and presentation on E-Waste Management and its impacts by Dr. K.D. Gupta, chief guest at the inaugural ceremony of ANANTA. He had a stint in prestigious organizations like USSR, BHEL, Asian development bank and the Indian government and is currently the chairman of ASSOCHAM, ICMEI and Institute of Applied System and Rural Development.



## E-Waste Survey Project Report

Ananta took an initiative to spread awareness on E-waste, its harmful effects and its disposal. The Society conducted an E-waste survey which was a collaborative effort of the students, teaching and non-teaching staff. Society is thankful to IP community (students, teaching and non-teaching staff) and others who participated in the Survey. It is conducted under supervision of Coordinator, Mr. Varun Sharma (System and Network Administrative) and Ms. Saachi. The main objective of this project is to gather information and about e-waste generation and its disposal. To get an insight regarding the issue, a pilot survey was conducted. The variations in the responses of the pilot survey and suggestions by the corresponding respondents were of immense help in creating an improved version of the final survey. A total of 754 responses were recorded for performing statistical analysis and the survey report for the same was presented in the inaugural ceremony.



## Presentations by Different Departments

There were phenomenal presentations by the students of different departments on the day of inauguration. The details are as follows:–

1. Ojasvi Gupta, Rishita, & Nidhi (Computer Science Department) – **E-Waste Management**
2. Draksha (Mathematics Department) – **How does ice grow?**
3. Vidushi Chaurishi, Shivani, Parul Yadav (Computer Science Department) – **Demo of online navigation map of IPCW**
4. Shubhanshi Gupta & Garima Chaturvedi (Psychology Department) – **Perception**



## Inter College Poster Making Competition

An inter-college poster making competition was also conducted on the theme- “**Science is poetry of reality**”.

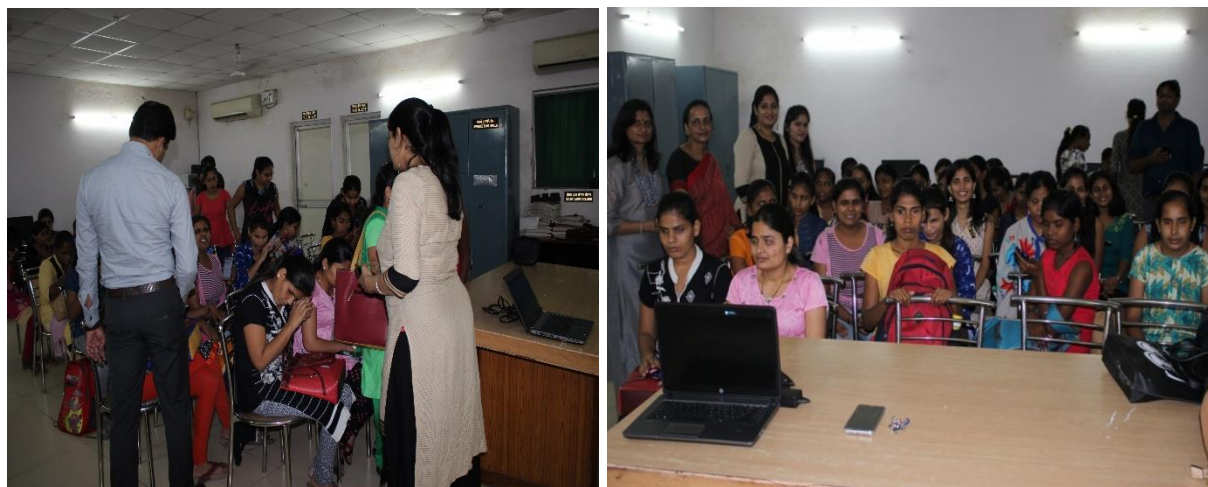
Following students bagged the positions:

- Ist Position** : Anjali, B.A. (P), IP College  
**IInd Position** : Apoorvi, B. Com, IP College  
**IIIrd Position** : Megha Singhal, Sri Ram College of Commerce (SRCC)



### **Audio Repository Workshop for Visually Impaired Students**

An audio repository workshop was conducted on 11th October 2018 for the visually impaired students of the college, along with some fun activities. It focused on the audio application “LECTURE HALL”, developed by IP College for the visually impaired students that provide online audios of the readings in accordance to their syllabus.



**The society necessarily entails attention to the social as well as natural sciences, and to the embodiment of science in technology. We focus our vision towards the mathematical and environmental dimension in favour of sustainable well-being. It aims to inculcate a temper and understanding among the students with regard to this subject and would continue to do so.**



## National Science Day (28<sup>th</sup> February 2019)

Like every year, National Science Day was celebrated on 28th February, 2019. **ANANTA**- the Science Society of *Indraprastha College for Women* organized the Science Day event with enthusiasm along with exhibiting scientific and technical skills. The young budding talents took the audience off-guard with their knowledge and understanding of different realms. Members of **Ananta** efficiently undertook the responsibility for the cultivation of awareness, the encouragement of critical thinking and the involvement of students in numerous activities under the supervision and guidance of the departmental advisors.



The inaugural remarks by Dr. Babli Moitra Saraf, embarked the beginning of the event, followed by an insightful lecture on understanding the core of science by Dr. Jyoti Sharma, Associate Professor from Cluster Innovation Centre, University of Delhi. She is a mathematics pedagogue whose first objective is to eliminate fear of mathematics among students and then develop within them a sense of appreciation for mathematics. The chief guest of the event Dr. Jyoti Sharma motivated students not just to be a bookworm but to think out of box.

The National Science Day was themed on “**Science for People and People for Science**”. For the upcoming years, **Ananta** will continue with its progressive series of events for the people.

## Presentations on National Science Day

Students filled with enthusiasm and creativity gave a demo of their innovative ideas through presentations on the burning topics in science and surroundings. The following presentations were briefed:

### 1. **Kalam Sat**

- By Kamalpreet Kaur, Riya and Varsha



### 2. **Role of plants in reducing pollution**

- By Mansi Dixit, Himanshi Bahl, Chandni Thappad



### 3. Gratitude and happiness

- By Garima, Ghazal Singh, Diksha Singh



### 4. Impact of tourism in biodiversity and its role in generating environmental awareness: A case study of Sultanpur National Park, Haryana

- By Ayushi Middha





## Project Demonstrations

**Ananta** provided platform to the students to display working model/projects on the science day giving them opportunities to enhance their creativity. The following projects were demonstrated:

- Shreya Sharma, Kajal, Shweta Bhardwaj and Ishika Singh - **LI-FI/Data in light**.  
Data in light based on the concept of LI-FI i.e. Light fidelity provides transmission of data through illumination by sending data through an LED light bulb. It is ideal for high density wireless data coverage in confine dare as where there are no obstacles, and it better bandwidth, efficiency, availability and security than wifi. Its objective is to transmit data from one device to another using Lifi. We'll be preferably connecting mobile phones to speakers using Lifi.



- Pooja Chauhan, Preeti Nanda, Spardha Kumari, Usha Kiran and Yamini - **Hydraulic-Powered Robotic arm**.  
By the principle of Pascal's law, in the hydraulic robotic arm the dynamic differential equation is built with the driving force of the hydraulic cylinder as the main force. It aims to use hydraulic energy for mechanical work.



- Parul Agarwal, Harshika Singh, Anu Panwar and Avi Tomar - **Automatic Garbage Collector.**

An automatic garbage collector is modelled based on Arduino. It is a tiny computer that can be programmed to process inputs and outputs going to and from the chip. The garbage collector detects waste materials by sensors and then collects it and put in into the bin.



- Riya Rana, Akshita, Mansi, Sapna and Sangeeta - **Rain Water Harvesting Model.**

The model displays a technique or strategy for the collection of rainwater and storing it in the right way for the future use. The water can be collected from the various surfaces and platforms stored for later use. In most cases what is usually collected from the rooftops and other hard surfaces. Rainwater harvesting is considered as a very reliable way to conserve water.



### Sci-Wizard InterCollege Quiz Competition

An inter-college college Sci-Wizards Quiz Competition was held which had two rounds - Prelims and Mains. The quiz was a huge success as fifteen teams from different colleges participated in the competition. The quiz covered important fields of science. The preliminary round was a qualifying round which was conducted as a written objective test. The main round was divided into three levels - Multiple Choice Questions, Objective Questions and the Pictorial questions. The hard work of the team to create promotional messages and posters for the quiz competition led to colossal participation of the students from different colleges.



### **Participation in events outside the College**

**Ananta** encourages the students to participate in competition presenting working model/projects and giving them opportunities to enhance their connectivity. The following projects were presented and won prize in **Inter-College Science Festival, Turiyojas**, Deen Dayal Upadhyaya College, University of Delhi held on **11<sup>th</sup> March 2019-14<sup>th</sup> March 2019**.

#### **Category- PROJECT**

1. Automatic Garbage Collector- **3<sup>rd</sup> position**: Presenters- Parul Agarwal and Harshika Singh
2. LI-FI/Data in light- **Prize of Appreciation**: Presenters- Shreya Sharma, Kajal, Shweta Bhardwaj and Ishika Singh



