

## Report of the Science exhibition '**Inspire the Next**' organized by Dhempe College of Arts & Science on 29<sup>th</sup> and 30<sup>th</sup> January 2019

Dhempe College of Arts & Science organized its Annual Science exhibition to showcase the immense talents of its students. On day one i.e. on the 29<sup>th</sup> of Jan 2019 the exhibition was inaugurated by the Chief Guest Shri Venkata Durga Prasad K - Project Coordinator Goa Science Centre and The Chairman and trustee of DCT's Dhempe college of Arts and Science, Shri Shrinavas Dempo.

They visited the science depts and were seen to take a keen interest in every exhibit displayed on the occasion. They were accompanied by Administrator Shri Rajesh Bhatikar along with College Principal Dr. Vrinda Borker, Vice Principal Mrs. Manjiri Barve and Co-ordinator of Annual Science Exhibition Mrs. Varsha Virginkar. The dignitaries commended the efforts of the students in promoting scientific attitude among the young budding scientists and science lovers. The total number of exhibits amounted to 100 with a student participation of 373 students.

The Inaugural function for the exhibition was held on the same day.

The Principal welcomed the dignitaries and expressed her pleasure that 100 exhibits and 373 students were involved on a large scale for participation in the exhibition. She said that students fueled by teacher's encouragement and support can create wonders for their growth and development. She also introduced the Chief Guest Shri Venkat Durga Prasad K - Project Coordinator Goa science Centre on the occasion.

The Chief Guest Shri Venkat Durga Prasad K expressed happiness that students were taking a keen interest in science and technology and their efforts could go a long way for paving and achieving new frontiers in science and technology.

The Chairman Shri Shrinavas Dempo expressed happiness in seeing the enthusiasm of students displaying various models by the application of scientific rules and said that it could lead them to starting their own start-ups and ventures which could contribute to the society at large not only economically but also socially.

As a part of the Green Campus Campaign of Dhempe college the formal inauguration of the Annual Science exhibition was done by watering a plant which is a symbol of prosperity and health for the planet earth.

The Coordinator of the annual science exhibition Mrs. Varsha Virginkar and the Co-coordinator for the CHIASMA event of the biotechnology dept Ms. Alisha Fernandes were also present on the occasion.

The Vote of thanks was given by the Vice-Principal Mrs. Manjiri Barve, wherein she thanked all dignitaries for attending and encouraging the students as well as the staff and students of

Dhempe college for all their hard work and efforts in the organization and conduct of the Science Exhibition.

The compere for the function was Dr Durga Kamat.

The Annual Science exhibition was continued on day 02 i.e. the 30<sup>th</sup> of Jan 2019.

On 1<sup>st</sup> day college students visited the departments and had glimpses of some interesting exhibits which were put to display. The organizing students explained the visiting participants about the exhibits in a simple and lucid manner.

On 2<sup>nd</sup> Day many school students from Dr.K.B.Hedgewar high school, Cujira, St. Michael High school,Taleigao,etc. visited college for the science exhibition. Also, members of Goa Science Centre, Miramar visited and appreciated the exhibitors for their innovative ideas and new interesting learning experience.

The Chemistry dept had 14 exhibits .The theme for the exhibition was “CHEMystery ” and the exhibits included Colour magic with ammonia, sodium flowers, Blow to know, Slicing ice, blue bottle, detection of argemone oil in various oil brands and others . Exhibits that captured the attention of everyone were bleeding heart, fire creation, chemical cocktail, chameleon chemical reaction. All the above experiments were colorful, eye catching and proved to be a learning experience among the student community.

The Maths dept had in all 15 exhibits with mind teasing and introspecting exhibits like mathematical puzzles, shortest path ,secrete sum and 3-D shapes.

The Botany Dept had in all 11 exhibits which involved Creative gardening: where in various left-over articles at home were used in creative garden aiming at reducing waste, such as old shoes, bottles etc. Also, others like Adulteration of food items: where simple methods of testing adulteration at home were demonstrated by the students. i.e. honey, asafetida, milk, etc. An interesting exhibit was on Hydroponics and Fogponics: culture of plants without soil and fertilizers in plants where they are grown in water with nutrients called hydroponics. Hydroponic solution when converted to vapor form and the plants are treated with fog is called fogponics. The plants grown by the hydroponics utilizes 90%nutrients and fogponics requires 98%.

The Physics dept shared responsibility in the science exhibition “Inspire the Next” under its theme “OORJA” and displayed fourteen exhibits in the Physics laboratory. The term OORJA was appropriate to the context of the exhibits which tried to focus on the role of energy in various forms .The list of exhibits included Demonstration of Seeback effect and its applications in thermo power generation, Demonstration of Peltier effect using a thermocouple , Steam engine based on a power cycle and others. Going through the exhibits many visitors expressed their happiness about the ingenuity of the ideas posed by Physics students and remarked that the ideas contain potential to lead up to an innovation and startups.

The Computer science dept had 10 exhibits which included guessing number using binary search tree ,Auto file tools,Infomedia and computer hardware components to name a few.

The dept of Zoology had 12 exhibits some of which were the digestive system of cockroach ,the aerial motion of birds ,pressure detection and blood group detection kits.

The dept of Geology exhibited various models, minerals, rocks and equipment in the Departmental Laboratory. A movie was screened on **“Evolution of Earth & Life”**.

Following is the list of some of the articles displayed along with the number of items in each category. a) Rock forming Minerals (10), b) Economic Minerals (30), c) Samples of crude oil (02) d) Zeolite Minerals (15), e) Fossil Specimens (20) and others.

Department of Biotechnology organized an exhibition CHIASMA 2019. Students presented fourteen exhibits pertaining to various fields of Biology. The exhibition had a footfall of two hundred thirty-three from different high schools, higher secondary schools and colleges of Goa. The exhibit titled ‘Little Giants from Kenan’s Backyard’ presented by Mr. Kenan Vaz was the major attraction. Various competitions like Brain wars (Debate), Mendelian Art (Chromosome plate puzzle), Inquisitive (Quiz) and Bio-spectrum (Fashion show) were conducted in which four colleges and three higher secondary schools participated.





