

Message from the Desk

I would like to extend my warmest wishes to you all on the beginning of the new academic year. Let it be interesting and unusual for you and let it bring new knowledge and discoveries, as well as new challenges.

Another blooming quarter at Science City, with variety of events like Dog Show displaying diversity in breeds, flower show displaying floral biodiversity, Celebration of International Women's Day, National Science Day, and Innotech-2018. The newly set up innovation hub at Science City has already enrolled 145 students of schools/polytechnic colleges as club members and we organized no. of workshops on robotics, electronics, molecular biology, kabaad se jugaad etc in the last quarter.

With immense pleasure I wish to inform you that Science City has completed 13 years of its existence. It was opened to public on March 20, 2005. Set up with an objective of inculcating scientific culture and temperament among the general masses and the youth in particular, we have come a long way. With more than 300 exhibits related to science and technology, large format film theatre, laser show, 3D theatre, flight and earthquake simulators we are on a fast track of achieving our objective and we hope to continue igniting young minds and fostering scientifically savvy new generation in future too. Keeping pace with the latest technology we are upgrading ourselves with time and very soon we are coming up with robotic dinosaurs in public private partnership mode and upgrading our 3 D to 5 D

Dear Readers, we love hearing from you, whether it's about your experience with us or because you have a question. Get in touch, and we'll come back to you as soon as possible.

Mohammad Tayyab
(Director General)

FORMER DIRECTOR GENERAL OF SCIENCE CITY DR. R.S KHANDPUR GETS NATIONAL AWARD



Dr. Raghbir Singh Khandpur, former Director General, Pushpa Gujral Science City, Kapurthala was awarded National Award for outstanding contribution in science popularization and communication. The award has been conferred on Dr. Khandpur for his outstanding achievement in developing Science City, Kapurthala. The award was given on National Science Day (February 28, 2018) at Technology Bhawan, New Delhi. The award was given by Dr. Ashutosh Sharma, Secretary, Department of Science & Technology, Govt. of India. Dr. Harsh

Vardhan, Hon'ble Union Minister of Science, Technology and Environment was the chief guest on this occasion.

From the past quarter

Activities under **INNOVATION HUB**

Workshop On Robotics

Science city organized workshop on robotics at Amarnath Hindu High School, Kapurthala on 12th January 2018 and GTB International Sr. Sec. School, Kapurthala on 22nd January, 2018. The students were explained about the basics of robotics, how to assemble and program a robot.



Workshop on Kabad se Jugad (28th January, 2018)

A Workshop on Kabad se Jugad was organized at PGSC, Kapurthala. The key resource persons were: Sh. Gaurav and Sh. Vikas. In this workshop, students were explained about the basic principles of science like air pressure, Bernoulli's principle, concept of centre of gravity, buoyancy, geometry etc. with the help of low cost teaching aids. All the aids were made from inexpensive redundant trash material



Pics above:

1: Workshop On Robotics 2. Workshop on Kabad se Jugad 3:Workshop On Biological Activities
4: Workshop On Electronics

Workshop On Biological Activities (26th February, 2018)

Workshop on Biological activities was organized at Amarnath Hindu High School, Kapurthala .

In this workshop, students were introduced with the latest projection microscope. They were guided in making temporary slides for observing magnified images under microscope. Students also practiced how to make

temporary slides for observing plant cells, stomata, pollens etc. under microscope. They were also practically explained about the processes like transpiration in plants and respiration in animals. Few activities based upon low cost teaching aids were also performed.

Workshop On Electronics (28th February, 2018)

The workshop was organized at GTB International Sr. Sec. School, Kapurthala

During the workshop, the participants learned about the basic Electronics. They came to know about the working of various components like transformer, Integrated circuit, diode, transistors, relays, etc. The participants also gained knowledge about making electromagnets using simple electronic circuit.

For any query regarding Innovation Hub and its activities, contact:

Er. Vishal Sharma(Chief mentor, Innovation Hub)
Mobile: 8146561236

From the past quarter

7th & 8th All Breed Open Dog show (January 28th, 2018)

Pushpa Gujral Science City Kapurthala organized 7th & 8th All Breed Open Dog show on 28th January 2018 with an objective to bring awareness in the society about domesticated biodiversity with a focus on various breeds of dogs. Exhibitors from all over Punjab participated. Over 80 dogs of 35 breeds participated in the dog show. Owners of dogs from Punjab and other states exhibited their pets and their skills during the show. 15 stalls of related to dog foods and dog medicines were also set up.

Mohammad Tayyab, IAS Deputy Commissioner, Kapurthala-cum-Director General, Science City was the Chief Guest and Mrs Tayyab was the Guest of Honour. In his address, he talked about the role of dogs and emphasized on the need to bring awareness about salient features of various breeds of dogs in the society.

Sh. H S Aulakh from Chandigarh and Sh. Avninder Grewal from Ludhiana were Judges of the Show.

The following were declared as the winners and awarded with cash prizes and trophies:

Exhibit No. 181 of breed Rottweiler and Exhibit no. 83 of breed Samoyed were awarded with Best in Show whereas exhibit no. 175 of breed beagle was awarded second best in Show in both the rings.

Winners were awarded with mementos/medals and cash prizes worth Rs.70000/- along with championship running trophy.

National Science Day (February 28, 2018)

National Science Day is celebrated all over India with great enthusiasm on 28th February to mark the invention of the Raman effect in India by the Indian, Physicist, Sir C.V Raman on the same day in the year 1928.

“Science and technology drive every nation's progress and prosperity. Scientific temper is a lone way to omit superstitions from the society. Young generation can play

an important role in building up knowledge based Society. We all have studied science in our school life but we do not relate this knowledge in our daily life”. This was expressed by Sh. Megh Raj Mitter from Tarksheel Society, India while addressing the participants. The day was celebrated in collaboration with Punjab State Council For Science & Technology Chandigarh.

Dr. Rajesh Grover, Director, PGSC presided over the occasion and stressed on the need to enhance public awareness of the importance of science and technology in every day life. He also emphasized on dissemination of scientific information on various aspects to dispel superstitions and illogical beliefs prevailing in the Society. Dr. Grover called upon the Media, Teachers, Students to play an effective role towards educating the community about S&T as an essential tool to meet the challenges related with sustainable development.

7th & 8th All Breed Open Dog show



National Science Day



From the past quarter

International Women's Day (March 09, 2018)

International Women's Day (IWD) is celebrated on March 8 every year. It is a focal point in the movement for women's rights. The day also marks a call to action for accelerating gender parity. Science City in collaboration with NCSTC, DST Gol celebrated the day involving participation of girls from different colleges. Dr Rajesh Gill, an educationist and women rights activist from Panjab University, Chandigarh delivered a motivational lecture to the participants. While addressing the participants, Dr Gill said, "It has been more than 35 years now since the International Women's Day has been celebrated all over the world. Gender equality is one slogan, which is raised at almost every public forum and yet, every morning the newspapers are full of stories of rape and sexual assault of women as old as 70 and as young as six months". She further said, "There is the other side too, brighter and more optimistic, wherein girls have entered every field, including defence services, police, judiciary, engineering, aeronautics, medicine, banking, etc. In fact, the top positions in various Universities and Colleges are being bagged by girls. Young girls in states like Haryana and Punjab have shown their worth in Sports at the international level in the past few years".

Speaking on the occasion about the status of women in our society, Dr Rajesh Grover, Director, Science City said "Even today where ignorance of medical knowledge prevails, it is the woman who is still incriminated and blamed for repeatedly giving birth to a female child and various genetic disorders in a child.



International Women's Day

Empowering women is very necessary for bringing gender equality. Those societies flourish well where women are respected and equally treated"

Dr. Grover also informed that Science City in collaboration with NCSTC, DST, Gol has taken up a project on empowering Women through Genetic Literacy. The project aims at sensitizing people that woman is neither responsible for the sex of the child nor for the genetic disorders in a child and relevance of undergoing screening tests during pregnancy. It will create awareness at various levels to deal with the problem and would also go a long way in women empowerment by building their self esteem.

On this occasion caption contest was organized and Giddha was also performed. Science City also provided free visit to its women participants to mark this event

Annual Day Cum Inno-Tech 2018 (March 18-19, 2018)

Pushpa Gujral Science City (PGSC) in collaboration with National Council of Science Museums, Kolkata organized INNO-TECH-2018 to provide a platform to the students of technical Institutes to display their innovative creations as well as an opportunity to the students to showcase their talent and vision. It is intended to encourage love for Science among the youth through enquiry-based

learning and to convert their imaginative ideas into real life models/ projects and several other creative and skill enhancing activities. This event also marked the 13th Anniversary of Pushpa Gujral Science City. The Science City was opened to public on March 19, 2005.

Science City organized this festival through display of projects/ models and Quiz Competitions aimed to inculcate scientific aptitude and temperament, among the masses, especially in youth mind. About 800 students from different professional colleges participated in various events. Students participated in following three categories:-

- Category I: Engineering College students
- Category II: Polytechnic College students
- Category III: Industrial Training Institutes students.

Dr. Raj Bahadur, Vice Chancellor, Baba Farid University of Health Sciences, Faridkot was the Chief Guest on this occasion. In his address to the students, Dr. Bahadur appreciated the initiatives of Science City, Kapurthala in promoting creativity and innovation. He said that such programmes encourage competitiveness and entrepreneurship among young students and motivate them to take up careers in science and technology. He said that innovation is

From the past quarter



not only limited to the treatment of diseases, revolutionary progress has been witnessed in the field of diagnostics as well. It has now become very easy to diagnose main root cause of serious diseases with the help of X-ray, CT Scan, Supper Scan and MRI.

Mohammad Tayyab, IAS Director General cum Deputy Commissioner, Kapurthala on this occasion said that development at any phase is always linked with technology and technology happens when there is advancement in Science. The dream of India to become a developed nation by 2020 would only be possible if innovation was given its due. He further said that the INNOTECH serve as a platform for the students – especially the budding technocrats – to exhibit their professional acumen.

Dr. Grover, Director Science City Kapurthala thanked the public of the region for their overwhelming response as more than 41 lakh visitors have visited the Science City since its opening to the public in March 2005.

Cash Prizes ranging from Rs. 1000 to Rs. 12,000 were awarded to the winners and certificates were awarded to all participants.

Result of Competitions:

Mechatronics (Polytechnic)

1st Prize: Rachin Bhalla, GNDPL
2nd Prize: Satpal Singh, GNA University
3rd Prize: Manvir Singh Puri, Thapar University Patiala

Mechatronics (Engineering)

1st Prize: Manraj Singh Ladhar, GNDU Amritsar
2nd Prize: Naman Goyal, Chandigarh Engineering group of colleges
3rd Prize: Manpreet Singh, Lyalpur Khalsa College

Miscellaneous Category (Engineering) :

1st Prize: Sidharth Popli, GNE Ludhiana
2nd Prize: Gulshan Kumar, Baba Banda Singh Bahadur College of Engineering, Fatehgarh Sahib
3rd Prize : Anil Kumar, Lyl. Khalsa College of Engineering, Jalandhar

Miscellaneous Category (Polytechnic):

1st Prize: Manik Dhingra, Mehar Chand Polytechnic, Jalandhar
2nd Prize: Raghav Pahwa, Mehar chand Polytechnic Jalandhar
3rd Prize: Vikas, LPU, Jalandhar .

Auto Mobile (Engineering): Rishabh, CGC, Landran

Polytechnic Category :

1st Prize: Tajinder Singh, GND Polytechnic
2nd Prize: Rahul Goyal
3rd Prize: Banidan, LPU, Jalandhar

Software: Engineering

1st Prize: Aharsh Saini, CGC
2nd Prize: Prince, Indo Global

Software: Polytechnic :

1st Prize: Navjot, Guru Nanak Dev Polytechnic
2nd Prize: Tushar Garg, Thapar College



Dr. Raj Bahadur, Vice Chancellor Baba Farid University of Health Sciences, Faridkot while addressing the participants

From the past quarter

Flower Show (March 23, 2018)

Flowers are regarded as a symbol of love, beauty and a gift of nature. They have the power to make people happy and cheerful. We can never deny the importance of flowers in our lives. They have a great role to make us feel happy and cheerful in every situation of our life. These were the views expressed by Prof Rakesh Kumar Mahajan, Vice Chancellor, DAV University on the occasion of flower show organized at Science City. He further said that the flower show organized at Science City was a successful attempt to draw attention toward the diversity of nature. The endeavor would motivate people visiting the show to plant more trees and flowering plants in their vicinity and contribute to maintain the balance of fragile eco-system.

While the people often relate their emotive expression to the colour of flowers, several studies have shown that some plants and flowers cleanse the soil and water of contaminants, stated Prof Mahajan. Sunflowers, for example, are able to absorb radioactive materials and other pollutants from the soil without much harm to the plant. In addition to cleaning the soil, flowers and other plants also cleanse water. The root systems of many flowers and plants that live in streams, lakes, and other bodies of water often serve as filters to remove toxic metals and other chemicals from the water, Dr Mahajan added.

On this occasion, Dr. Rajesh Grover, Director, PGSC said that this event will inspire the society regarding the importance of growing flowers and conservation of environment and at the same time it will promote a spirit of fun. He mentioned that organizing a flower show is a cooperate venture which combine the skills, Knowledge and enthusiasm of several individuals. Therefore, this event is an opportunity to the visitors of the show to enjoy the spring season as well as diversity in its full grandeur and appreciate the variety in nature. Students of different educational institutions presented Giddha, Bhangra and Gatka.

Result of Competitions

Painting competition :

First Prize: Anmol , Sankriti KMV School, Jalandhar

Second Prize: Kajal Sharma ,Bawa Lalvani Public School, Kapurthala

Third Prize: Saachi Duggal , Christ King Convent School, Kapurthala

Flower arrangement:

Fresh Flower

First Prize: Vidhu ,Lord Krishna School

Second Prize : Ankita, Sanskriti KMV School

Third Prize : Komal, Arya Model Sen. Sec. School .

Dry Flower

First Prize: Palak Sharma, Arya Model Sen. Sec. School

Second Prize :Diya, Sanskriti KMV School Jalandhar

Third Prize: Paramjit, Guru Har Gobind School, Nadala

Potted Flower :

First Prize: Team of Science City Gardeners

Second Prize: Punjab Technical University, Jalandhar .



Glimpses from Flower Show

From the past quarter

Blood Donation Camp

Pushpa Gujral Science City in collaboration with Indian Red Cross Society, Kapurthala organised Blood Donation Camp to mark 13th Anniversary of PGSC. Director, Science City Dr Rajesh Grover inaugurated the event. Sh R C Birha, Secretary, Red Cross Society was also present on this occasion. Science City employees donated 20 units of blood. Certificates were issued to the donors by Civil Hospital, Blood Bank, Kapurthala.



E -court Kiosk set up at Science City

An E -court Kiosk was set up at Science City which was inaugurated by Honourable Justice, Punjab & Hayrana High Court, Sh Rajesh Bindal at Science City. Honourable Justice Arvind Sagwan, Sh. S.K Garg, District and Session Judge(Jalandhar) , Sh. R.S Ray District and Session Judge (Kapurthala), Sh. Sandeep Sharma, SSP (Kapurthala) , Mohammad Tayyab Deputy Commissioner (Kapurthala)-cum-Director General, Science City and Sh. Rajesh Grover, Director, Science City were also present on this occasion.

The informational Kiosk is set up in Science Explorium building of Science City.

Information regarding any case which is pending or decided in any Court the details can be received in just single click. The information regarding any case can be taken from the kiosk by just filling up any of the details such as case no, party name, FIR number, or advocate name.

Besides this cause list of every court is also easily available in the Kiosk.

Science City is a major tourist attraction in Punjab. Therefore, public convenience kiosk has been set up at Science City to mark the advancement of technology in Indian Judiciary.



Did you know...

All the blinking you do in one day is equal to having your eyes closed for 30 minutes





BOOKINGS

Ticket (In Rs.)	Student/Teacher/Children	Adult	Family
Entry Ticket	50	100	250
Package Ticket (Entry to galleries, Large Format Theatre or Digital Planetarium, Laser Show, 3D Show, Climate Change Theatre)	210	300	900
Package Ticket > 25 Group	200	290	850
Complete Package Ticket [Digital Planetarium or Large Format Film (Any one), Flight Simulator, Earth Quake Simulator, Laser Show, 3D Show, Climate Change Theatre, Galleries & Exhibits]*	190	310	950
Complete Package Ticket > 25 Group	250	370	1100
Minimum 500 students	10% on prevailing ticket rates		
Between 501 and 1000	12.5% on prevailing ticket rates		
Above 1000 students	15% on prevailing ticket rates		

ANNUAL MEMBERSHIP SCHEME

Student / Teacher: Rs 500/-

Adults: Rs 750/-

Family (2 Adults + 2 Children (<18 yrs)): Rs 2000/-

To know about membership benefits, please contact:

Dr. Munish Sain, Scientist C; M: 8146580387

HOSTEL FACILITY FOR STUDENTS/TEACHERS

AC accommodation for 100 students and 10 teachers is available. Separate arrangement for boys and girls.

Stay charges: Rs 100/- per person (Food charges extra)

For hostel booking, contact: Mrs Harsimran Arora;

Phone: 01822-501963, 501964

FOR RESERVATIONS, PLEASE CONTACT

Mrs Harsimran Arora; Assistant Estate Manager

Phone: 01822-501963, 501964

Email: harsimranarora9@gmail.com

Open 365 Days a year!

Weather permitting, Science City provides Night Sky Watching facility when clear sky offers best view of the planets.

Students/ Teachers: Rs 30/- , General Public: Rs 50/-, Family: 150

For more details & reservations, please contact: Mr. Akashdeep Singh; Mobile: 9855015591; E-mail: akashds13@gmail.com

The entry and package rates likely to be revised in June/July 2018 with the addition of Robotic Dinosaurs facility at PGSC are as follows:

Ticket (In Rs.)	Student/Teacher/Children	Adult	Family (2 adults + 2 children)
Entry Ticket	85	135	390
Package Ticket-I (Entry to galleries, Large Format Theatre or Digital Planetarium, Laser Show, 3D Show, Climate Change Theatre)	245	335	1040
Package Ticket > 25 Group	235	325	990
Complete Package Ticket-2 [Digital Planetarium or Large Format Film (Any one), Flight Simulator, Earth Quake Simulator, Laser Show, 3D Show, Climate Change Theatre, Galleries & Exhibits]*	285	405	1240
Complete Package Ticket > 25 Group	265	385	1190

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