

## *Our Vision*

We will be an institution of excellence to inculcate scientific temper and generate & nurture creativity especially in the young minds.

## *Our Mission*

We will be a place for :

- Education: To provide young people with the opportunity to explore informal ways of supplementing formal education.
- Widening knowledge: To offer everyone – children and adults, general public and students – avenues to experience its well equipped resource centres.
- Demonstrating emerging technologies, such as nano-technology, micro-machines, levitation, genomics etc.
- Information: To disseminate information on the latest developments in science and technology.
- Innovation: To provide opportunity to individuals to try out their ideas in the design and development of new products.

and above all

- Edutainment: To learn through experience, fun and entertainment.

## *Our Objectives*

- To supplement formal science education, to create excitement among the students about science & technology and to enthuse them to take up careers in science & technology
- To promote creativity and innovation among the young generation
- To build scientific temper among the general masses and to develop informed and knowledgeable society.

# Things to do and see at Science City

■ **Large Format Film Theatre.** Science City hosts a Large Format Film Projection System. It is housed in a dome, which is distinctive outside as well as inside. On the outside, it is covered with 25 lac computer-designed tiles of one square inch each and looks like a giant globe. Inside, it has a large format film theatre with a 23-metre diameter screen ( 10 times larger than a 35 mm screen) which provides an immersible experience.

■ **Digital Planetarium.** The most amazing experience in any planetarium through multi-channel digital planetarium system is to see the night sky, and a guided tour through the planets & constellations.

■ **Virtual Expeditions (Flight Simulator).** Another activity which causes an adrenaline rush, is a three-minute ride in a 30-seater flight simulator. It feels as if one is zooming through the stars in an alien universe or making death-defying leaps on a roller coaster.

■ **Virtual 3-D Show.** Here, visitors see the objects flying out of the screen coming in every direction; creepy characters reaching out to grab you giving a feeling that you are a part of the action.

■ **Indoor Laser Show.** This laser show takes visitors to the wonderland where one would experience sudden shots of fog with mind-boggling sound and laser beams.

■ **Earthquake Simulator.** 30-seater Earthquake Simulator provides visitors a realistic experience of being in an earthquake. The computer-controlled simulator demonstrates how much a city will shake and heave if there is an earthquake measuring say 5, 6, 7 or 8 on the Richter Scale.

■ **Amazing Living Machine (Health Gallery).** Amazing living machine gallery is an effort to enlighten the general public about the functioning of various organs of the human body and understand the extraordinary bridge between what we see and the way they are. The gallery deals with various aspects of the human body from embryonic to full body development, aging and demonstrating anatomy, physiology, diagnostics and genetics through interactive and attractive exhibits. The star attractions of the gallery are

Transparent Man theatre, walk through Giant Heart, CT Scanner, Operation theatre, Countdown to Birth, and various other interactive exhibits.

■ **Space & Aviation Gallery:** The gallery displays cut-view models of satellites and various applications of space technology. The major constituents of the gallery are: Astronomy – our Universe; Solar System; Satellites launching Vehicle, Living in space etc.

■ **State level Energy Education & Awareness Park:** This Park demonstrates uses of various forms of non-conventional energy sources such as Solar energy, Hydel energy, Wind energy, Bio energy etc. 20 KW energy is generated through Solar Energy to run all the exhibits in the Energy Park.

■ **Defence Gallery:** Defence gallery consists of weapons and aircrafts that were used during World war- 2 and various other indigenously built aircrafts. The main attractions are Vijyanta Tank, Anti aircraft gun & aircraft MIG 23. A 2-seater Air Craft Swati LT-11 donated by the Govt. of Punjab to the Science City is also installed for giving sit-in experience to the visiting public.

■ **Life Through the Ages:** The panorama takes you on an amazing journey through the history of life, provides an insight on how the Earth and life on it has evolved. The Panorama displays the major events from Origin of Earth-Big Bang, Origin of Life, Unicellular animals/plants to Multi cellular animals/plants, Dinosaurs and prehistoric man to modern man.

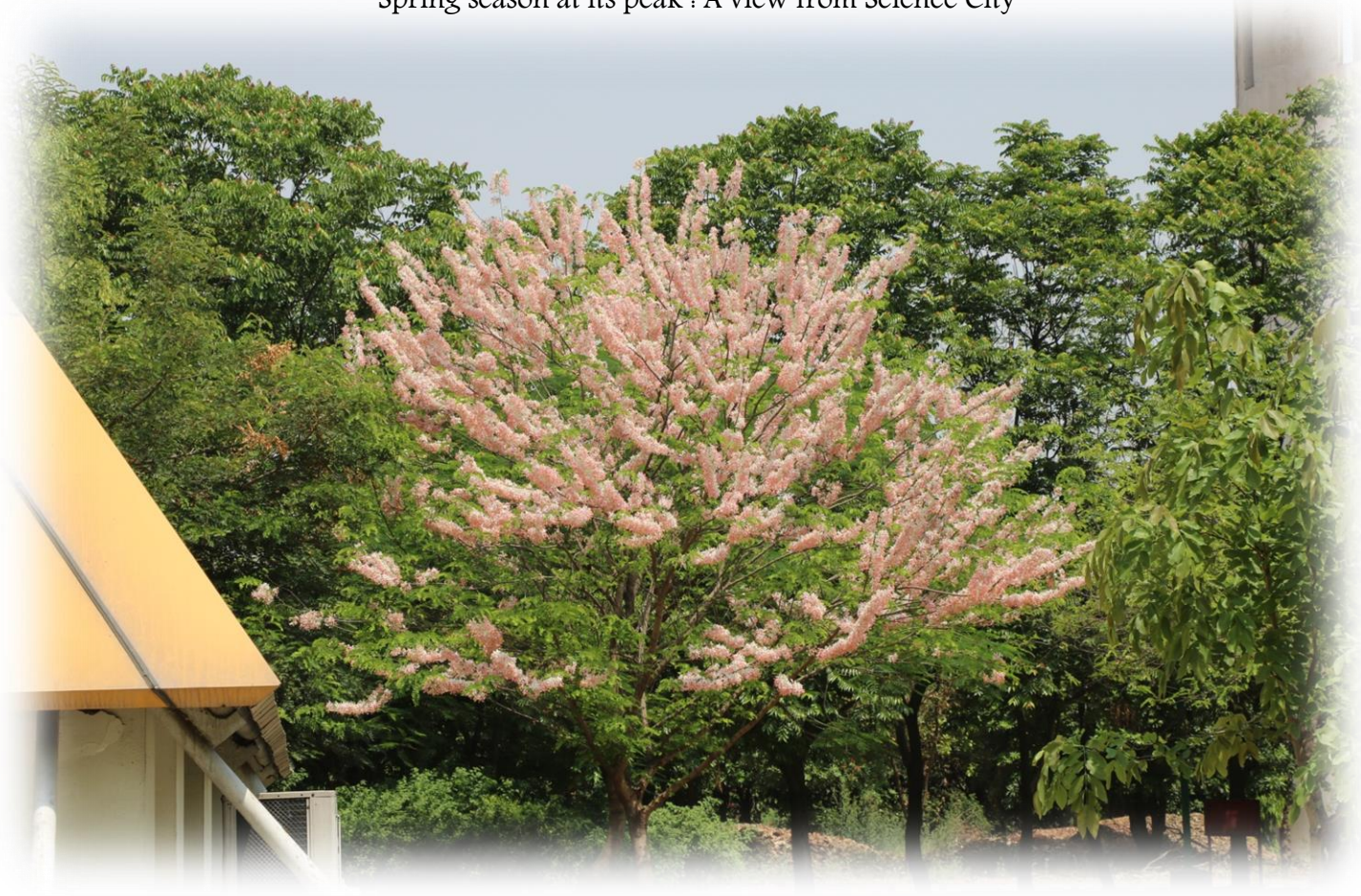
■ **Dinosaur Park:** One of the biggest Dinosaur Parks, it has Life size dinosaurs, 44 in number of different eras in an island surrounded by a water body. Also meet Dinosaurs with movements and special sound effects placed under a volcano.

■ **Science of Sports:** Gallery is an ideal place to understand science behind various sports through playful and non-formal approach. The gallery intends to familiarize the visitors with the applications of scientific principles in sports – role of gravity, projectile motion, momentum, force, energy, impulse, Newton's Law of Motion, material used in sports equipment etc. and understanding and improving performance in sports.



- **Climate Change Theatre:** is a unique experience-filled theatre showing videos on two screens- flat and dome shaped and illuminating the static and moving fibre glass objects along with special light and sound effects, as the video displays storyline of the film.
- **Railway Gallery:** Dioramas of technologically challenging and visually inspiring railway tracks have been set like Kalka-Shimla Railway track, Jammu- Srinagar railway link, the Bullet Train of Japan, Delhi Metro and principle of levitation used in high speed trains and engine simulator.
- **Bird Gallery:** The gallery captures staggering diversity of birds with models of national and state birds. A large banyan tree located in its centre displays commonly available birds species of the state mounted on it. This tree structure is surrounded by wetland diorama consisting models of species/varieties of flora and fauna available in state wetlands surrounded by replica of natural scenic beauty. The gallery also exhibits a large map of India demarcating its various states along with state birds.

Spring season at its peak : A view from Science City





# PUSHPA GUJRAL SCIENCE CITY

PANORAMA ON LIFE THROUGH THE AGES



MOVING DINOSAURS



CLIMATE CHANGE THEATRE



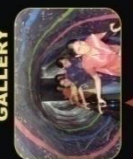
AMAZING LIVING MACHINE GALLERY



CYBER SPACE & VIRTUAL REALITY



FUN SCIENCE GALLERY



EARTHQUAKE SIMULATOR



GARDENS



AMPHITHEATRE



ENERGY PARK



KIDS PARK



SPACE & AVIATION GALLERY



CONVENTION HALL



SCIENCE VOYAGE HALL



DORMITORY



ADMINISTRATIVE BLOCK



CAR PARKING



BOATING CENTRE



GATE COMPLEX



TICKET COUNTER



BOATING LAKE



3D SHOW



FLIGHT SIMULATOR



SPACE THEATRE



LASER SHOW



DINO PARK



TOILETS



RESTAURANT



DRINKING WATER



N



પંચાચી ડામ્સા લટી પિઢલે પામે દેધે









Coming Soon

## **Robotic Dinosaurs: Where Dinosaurs Come to Life!!!**

Encounter the 19-foot T-Rex and other new life-size robotic dinosaurs. See the dinosaurs move and hear them roar!

&

## **5 D Theatre: An Experience Not Just Entertainment!!!**





2017-18



Review  
of  
2017-18



**147 MEMBERS IN 5 MONTHS OF ITS LAUNCH.**

**10 ACTIVITIES ORGANIZED ON BASIC ELECTRONICS ROBOTICS, BIOLOGY, , KABAD SE JUGAAD AND 3D DESIGNING.**

**INNOTECH- 2018 ORGANIZED SUCCESSFULLY INVOLVING HUGE PARTICIPATION OF ENGINEERING, POLYTECHNIC AND ITI STUDENTS.**

The Innovation Hub at Pushpa Gujral Science City was opened to the public on 30.11.2017 by Dr. Roshan Sunkaria, IAS Principal Secretary to the Govt. of Punjab, Department of Science, Technology & Environment.

Innovation hub at PGSC has been set up in 500 sq. m area under the scheme SPICES (Scheme for promoting Innovation Creativity and Engagement in Science) approved by the Planning Commission and Ministry of Culture Govt. of India with 100% cost to be borne by the Govt. of India.

The Innovation Hub created by National Council of Science Museums in association with National Innovation Council engages youth in innovative and creative activities. It would serve as springboard for new ideas and innovation and thus help the society and economy to face future challenges and meet rising aspirations of the growing population.



In the pic: Dr Roshan Sunkaria, Principal Secretary, Science, Technology and Environment and Mohammad Tayyab, DG , Science City





### Facilities at the Innovation Hub:

**Discovery Hall:** This hall has 10 to 15 interactive science exhibits/experiments to create excitement about science through exploration and discovery of underlying principles.

**Innovation Resource Centre:** The Resource Centre showcases innovative ideas/products/implements that have transformed the world. Besides these, implements/ samples of appropriate technology and traditional knowledge systems, art and craft and other areas of importance in public life in the respective regions shall be exhibited. The section will also serve as a resource centre, duly provided with broad band connectivity, for accessing information on inventions/inventors/patents and multimedia/films on innovations.

**Idea Lab :** This lab is full of necessary basic facilities for children to pursue creative and innovative hobbies/activities that involve model making, basic science experimentation, design & fabrication of useful gadgets of practical use, teaching/learning kits or aids for better class room transactions.

**Thod Phod Jod (Break & Remake) corner:** Students will assemble and disassemble various unused electronic/mechanical gadgets/items and thus learn the engineering of products.

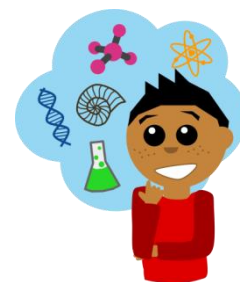


**Kabad Se Jugad (Build from scraps):** Here students will learn more by doing things practically using day to day scrap.

**Idea Box :** Students' own innovative ideas will help to create an idea bank.

**Design Studio :** This area will offer creative environment to design various objects/ products etc to solve design challenges.

The students in groups or in their individual capacity keen to avail the facilities of Innovation Hub will be enrolled as members. Annual membership of innovation hub will be available to group of students on nominal payment of membership fee Rs. 500 per student and for individual & college students (ITI/Diploma/Engg.) membership fee is Rs 1000/-.





## Activities in 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. 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. 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

### 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 to 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 by Er. Vishal Sharma(Chief Mentor, Innovation Hub). 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 electromagnet and made electromagnet using simple electronic circuit.







## Mukh Mantri *Vigyan Yatra*

It was observed that students studying in the government schools remain deprived of the facility and the advantages of a visit to Science City due to financial constraints. In order to facilitate these students to visit Science City and take advantage of the facilities and activities of the Science City so as to encourage innovation and creativity among young students and to motivate them to take up careers in science and technology, Department of Education, Government of Punjab in collaboration with Pushpa Gujral Science City, Kapurthala initiated "Mukh Mantri Vigyaan Yatra" for students of Government schools of Punjab.

The visit of students to Science City was so designed that students from all the 22 districts of Punjab visit Science City. During the excursion period, a bus carrying 50 students and 2 teachers from each district visited Science City. About 1100 students visited the Science City daily during the excursion period. A total of 1,50,255 students visited Science City (2017-18) under this scheme. Visit of students to Science City proved to be a significant step leading to flourishing and enriching the knowledge and skills of the students in application based science and technology.



## World Earth Day



## World Earth Day (April 22, 2017)

Pushpa Gujral Science City celebrated World Earth Day in collaboration with Ministry of Earth Sciences involving participation of students in different competitions. The objective of the celebration was to raise awareness among students and visitors on the importance of earth resources in our lives, various threats to these resources and means to conserve it.

Following activities were organized on this occasion:

- Expert lecture by Prof. Sandeep Sahijpal, Department of Physics, Panjab University, Chandigarh on conservation and management of earth resources.
- Painting Competition
- Debate Contest
- Documentary Show
- Plantation



## International Biodiversity Day

## International Biodiversity Day (May 22, 2017)

Science City celebrated International Biodiversity Day on May 22, 2017 in collaboration with Punjab Biodiversity Board, Chandigarh involving participation of large number of students in different competitions. The objective of the celebration was to raise awareness among students and visitors about the values of biodiversity resources in our lives and various threats to these resources and means to conserve it. Dr. Neelima Jerath, Pro Vice-Chancellor, Desh Bhagat University, Mandi Gobindgarh and former, Director General, Pushpa Gujral Science City presided over the occasion. Following activities were organized on this occasion:

- Expert lecture on biodiversity resources and its conservation
- Painting Competition
- Science Play
- Documentary Shows
- Plantation



## Workshop on Microorganisms



### Orientation Workshop on Microorganisms ( May 23 & 24 ,2017)

Orientation workshops on microorganisms were organized at Godiva Lions Coventry Public School, Nakodar and Dashmesh Public Senior Secondary School on 23-05-2017 & 24-05-2017 with an objective to create better understanding and effective awareness among students about the Role of Microorganisms in various fields. Ms Kamaljit Kaur & Ms Manju Bala were the resource persons from Science City. 50 students participated in each workshop. The concept about microorganisms was demonstrated with the help of power point presentation on microorganisms, their uses, culturing & sterilization techniques as well as performance of experiments by the students with an objective to inculcate interest of the students to opt for careers in the field of microbiology.

### Summer Camp 2017( 5<sup>th</sup>-7<sup>th</sup> June 2017)

Science City organized summer camp on Hands



## Summer Camp



on activities in Mathematics, Model Rocketry, Basic Electronics and Nature camp for school students of 5<sup>th</sup> to 8<sup>th</sup> standard. The camp was an opportunity for the participants to introduce themselves to the exciting world of engineering, robotics and the art of observation in nature and help them break the boundaries of the routine and take a leap into the whole new world with a different perspective. The objective was to develop curiosity and interest of the students in science and provide hands-on experiments and demonstrations that are fun- based.

82 students from different schools participated in the camp. The salient features of this camp were: simplifying the complex concept of science and to develop and nurture Scientific Temper and skill development.



Setting up of Nuclear Power Plant Model

### Setting up of Nuclear Power Plant Model (November 17, 2017):



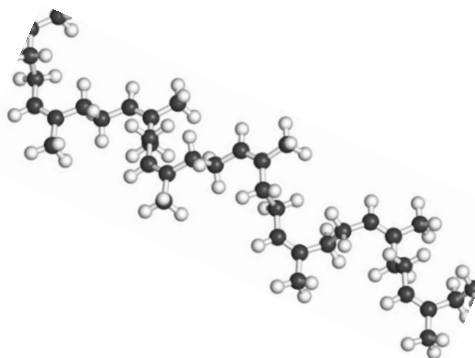
To enhance public awareness on nuclear power, Science City has set up a semi - dynamic model of 220 MW nuclear power plant. The model was handed over to Science City by Sh. A.K Jain, Additional Chief Engineer, Nuclear Power Corporation of India Ltd and was inaugurated by Dr. Rajesh Grover, Director, Science City. The semi-dynamic Nuclear Power Plant models are one of the best tools to educate / inform general public about the nuclear power plants. This model explains functioning of nuclear power plant in simple and interesting manner with running commentary of various conventional as well as nuclear systems. Various nuclear safety features are also incorporated in the model to build confidence in viewers that the nuclear power plants are absolutely safe. Sh. A.K Jain delivered a lecture on nuclear power and its advantages during the handing- over ceremony. More than 200 students from various government schools attended the lecture.



National Science Day

### National Science Day( February 28, 2018)

National Science Day is celebrated all over India with great enthusiasm on 28<sup>th</sup> February to mark the discovery of Raman effect by the Indian, Physicist, Sir C.V Raman on the same day in the year 1928. Dr. C.V. Raman was awarded Noble prize for his great contribution in understanding the scattering of light on interaction with solids showing polarization. Science City celebrated this day through variety of activities and programmes aimed on focusing student's attention on role of Science in Nation Building. Project/Model Display and Debate was organized and approx. 200 students from different schools participated during the occasion. The day was celebrated in collaboration with Punjab State Council For Science & Technology Chandigarh.







International Women's Day

### Behavioural Change Campaign (March 04, 2018)

Science City organised a Behavioural Change Campaign on 04-03-18 to promote Swachh Bharat Mission. Motivational lectures were delivered by Dr. Munish Soin, Manager Estate and Ms. Harsimran Kaur, Deputy Education Officer to the Horticulture staff of Science City. The participants were explained the concept of Swachh Bharat Mission as well as importance of cleanliness highlighting the role of common man in general and horticulture staff in particular to keep the surroundings clean. The participants were also appealed to bring change in their behaviour to



Behavioural Change Campaign

make the Swachh Bharat Mission successful.

### 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 celebrated International Women's day on March 9, 2018. in collaboration with NCSTC, DST Gol. On this occasion, Dr Rajesh Gill, an educationist and a woman rights activist delivered a motivational lecture on Women Empowerment. A caption contest was organized and videos on women empowerment were also shown. The participants were also demonstrated how a woman is not responsible for the sex of the child through an exhibit installed in the Health Gallery at Science City. Approximately 300 girls from different colleges attended the event. On this occasion Giddha was also performed by girls.



event.



Innotech- 2018



### 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 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.

Science City organized this festival through display of projects/ models and Quiz Competitions. 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.

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





Inauguration of e-court Kiosk



Blood Donation Camp at Science City

### Blood Donation Camp (March 20.2018)

Pushpa Gujral Science City in collaboration with Indian Red Cross Society, Kapurthala organised Blood Donation Camp to mark 13<sup>th</sup> 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 one 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 major tourist attraction in Punjab. Therefore, public convenience kiosk was set up at Science City. Such facility is a witness of advancement of technology in Indian Judiciary.





All Breed Open Dog show

## Special Outreach Programmes

### 7<sup>th</sup> & 8<sup>th</sup> All Breed Open Dog show(January 28<sup>th</sup>, 2018)

Pushpa Gujral Science City Kapurthala organized 7<sup>th</sup> & 8<sup>th</sup> All Breed Open Dog show with an objective to bring awareness in the society about domesticated biodiversity with special 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 related to dog foods and dog medicines were also set up. Dr. Rajesh Grover, Director, Pushpa Gujral Science City, Kapurthala presided over

function and emphasized on the need to bring awareness

about salient features of various breeds of dogs in the society. Sh. 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 dog lovers in the Society.

Sh. H S Aulakh from Chandigarh and Sh. Avninder Grewal from Ludhiana were Judges of the Show. Winners were awarded with mementos/medals and cash prizes worth Rs.70000/- along with championship trophy







### Flower Show

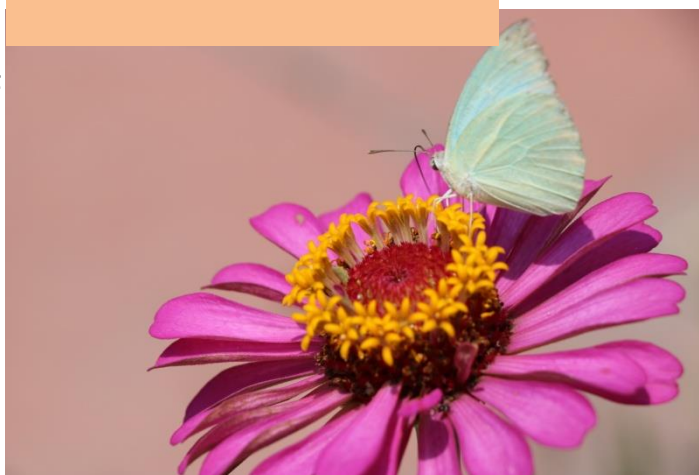
#### Flower Show (March 23, 2018)

Flowers are regarded as a symbol of love, beauty and a gift of nature. They have the power to make people happy and cheerful. In an attempt to draw attention toward the diversity of nature, a flower show was organized at Science City.

Prof Rakesh Kumar Mahajan, Vice Chancellor, DAV University was the Chief Guest on this occasion. The event was an opportunity for the visitors of the show to enjoy the spring season as well as diversity in its full grandeur and appreciate the variety in nature. The endeavor also motivated people visiting the show to plant more trees and flowering plants in their vicinity and contribute to maintain the balance of fragile eco-system.

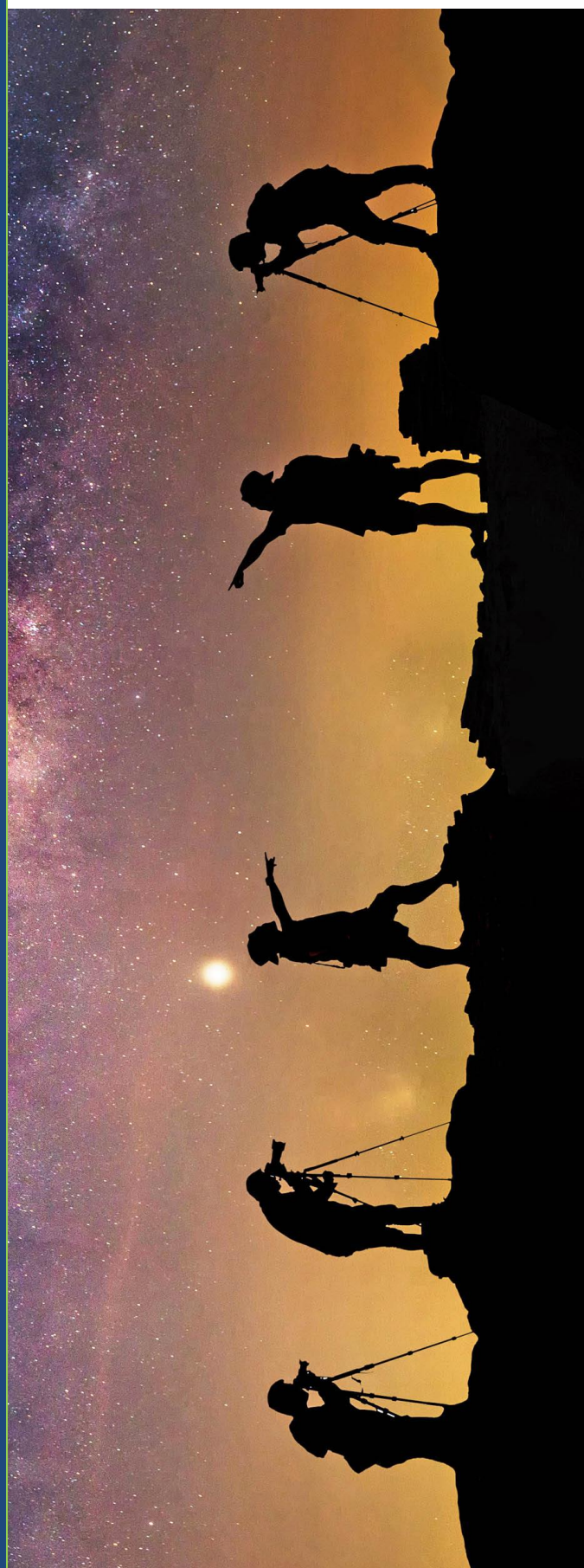
On this occasion competitions like Flower Painting, fresh flower arrangement, Dry Flower Arrangement and potted Flower competition were organized. Giddha, Bhangra and Gatka were also performed. More than 700 participants registered for this event.

#### A Blooming Flower at Science City!!



### *Wonders of the Universe : Night Sky Watching*

Under Night Sky Watching programme, Star gazing activities are organized through powerful telescopes. Here one can view the craters on moon surface, Rings of Saturn, Phases of Venus, Jupiter, Mars etc. Science City keeps a track of major celestial events and update the schools regularly. Night Sky watching is arranged for the interested schools/visitors at Science City complex or at the institution's premises. Science City organized Night sky watching for approx. 1856 students of different schools Jalandhar, Amritsar, Taran Taran, Sultanpur lodhi, Beas etc during 2017-18.





## Fairs & Exhibitions

### CII Chandigarh(October 13-16 ,2017)

Science City participated in the Trade Fair organized by Confederation of Indian Industry in Chandigarh from 13.10.2017- 16.10.2017 for the promotion of Science City by putting up an interactive stall.

### India International Trade Fair (November 12-27,2017)

PGSC participated in International Trade Fair, 2016 (Punjab Pavilion) at Pragati Maidan, New Delhi from November 12 to November 27, 2017 organized by Indian Trade Promotion Organization, New Delhi. IITF is the largest integrated trade fair of the Indian subcontinent. A number of Government Organizations uses this platform to spread awareness about their programmes and policies among the public.

## Internet Buzz

### E-Newsletter

Science City released various editions of quarterly e-newsletter BUZZER. The newsletter highlights forthcoming events, events organized in the past quarter, Ticket prices, various schemes, and other facilities available at the Science City. Science City regularly sends newsletter to schools & colleges, corporate, tour operators etc all over the northern region.

### Social Media

- \* PGSC Facebook page daily gets suggestions, recommendations and likes from the visitors. The facebook page

is updated on regular basis about science and technology news, days and events. The page has more than 6700 followers.

- \* PGSC has been awarded certificate of Excellence by Trip Advisor.

## Conferences



- Dr. Rajesh Grover, Director, PGSC participated in **16<sup>th</sup> All India Directors Conference organized by NCSM** in Mumbai and made a presentation on "PGSC endeavours towards inclusiveness".

- Dr. B. S. Bhalla, Scientist 'C' attended **17<sup>th</sup> Indian Science Communication Congress** at Indian Institute of Mass Communication, New Delhi from 21.12.2017 to 22.12.2017 and a short term course on Advances in Concrete Composites at Department of Civil Engineering, NIT, Jalandhar from 22.12.2017 to 26.12.2017.

- Sh. Ritesh Pathak, Scientist C, attended a Conference on **Sustainable Development: Challenges & Prospects** at Desh Bhagat University, Mandi Gobindgarh on 6<sup>th</sup> and 7<sup>th</sup> Oct 2017 and made presentation on A PGSC way of dispersing science education to sensitize masses.

## Publications



- Dr R. Grover and Dr Loveleen Brar. Climate Change: A call for awareness. DREAMS 2047 (August 2017 edition): Vigyan Prasara, New Delhi.
- Dr Loveleen Brar. *Jalvaayu Parivartan: Jaagrukta val ik udaan*. Nirantar Soch(August 2017): Punjab State Council for Science & Technology, Chandigarh

■ Dr R. Grover and Dr Loveleen Brar. Sex Determination: Myths and Facts (Accepted for publication in DREAMS 2047)

■ DR B. S Bhalla. "Assessment of photocatalytic deduction of 2,4,6-trinitrotoluene (TNT) explosive by Advanced Oxidation Processes (AOPs)" submitted to International Journal of Ozone: Science and Engineering, 2018 (Communicated).

## Banner Display

PGSC regularly displays banners with background information on special days like::

World Wetland Day	2 February
World Cancer Day	4 February
Birthday of Thomas Alva Edison	7 February
Birthday of Charles Darwin	11 February
World Radio Day	12 February
Birthday of Galileo Galilei	15 February
Birthday Albert Crewe	18 February
Birthday of Copernicus	19 February
Birthday of S.S. Bhatnagar	21 February
National Science Day	28 February
World Wildlife Day	3 March
International Women's Day	8 March
Albert Einstein	14 March
World Sparrow Day	20 March
World Forestry Day	21 March
World Water Day	22 March
World Meteorological Day	23 March
World Health Day	7 April
World Homeopathy Day	10 April
International Day of Human Space Flight	12 April
World Aeronautics & Cosmology Day	14 April
World Hemophilia Day	17 April
Indian's 1 <sup>st</sup> Satellite Launched – 1975	19 April
International Earth Day	22 April
World Asthma Day	3 May

National Technology Day	11 May
World Telecom Day	17 May
International Biodiversity Day	22 May
World No Tobacco Day	31 May
World Environment Day	5 June
World Ocean Day	8 June
World Blood Donor Day	14 June
International Yoga Day	21 June
National Statistics Day	29 June
National Doctors Day	1 <sup>st</sup> July
World Population Day	11 <sup>th</sup> July
International Biodiesel Day	10 <sup>th</sup> August
National Sports Day	29 <sup>th</sup> August
Birthday of Sir Ernest Rutherford	30 <sup>th</sup> August
National Teacher Day	5 <sup>th</sup> September
Birthday of John Dalton	6 <sup>th</sup> September
Engineers Day	15 <sup>th</sup> September
World Peace Day	21 <sup>st</sup> September
Birthday of Sh. Satish Dhawan	25 <sup>th</sup> September
World Tourism Day	27 <sup>th</sup> September
World Heart Day	29 <sup>th</sup> September
Neil Bohr Day	7 <sup>th</sup> October
Birth anniversary of C.V Raman and Marie Curie	7 <sup>th</sup> November
World Science Day	10 <sup>th</sup> November
Children's Day, World Diabetes Day	14 <sup>th</sup> November
Birth anniversary of Edwin Hubble	20 <sup>th</sup> November
World Television Day	21 <sup>st</sup> November
Birth anniversary of J Vender Waals	23 <sup>rd</sup> November
World AIDS Day	1 <sup>st</sup> December





## Media Achievements

Journalist  
E TRIBUNE

03 / 2017

## Science City to come up with new projects, says Kapurthala DC



Representatives of Pushpa Gujral Science City during the screening of an American film in Kapurthala on Friday.  
A TRIBUNE PHOTOGRAPH

TRIBUNE NEWS SERVICE

**KAPURTHALA, JUNE 2**  
Kapurthala Deputy Commissioner Mohammad Tayyab, who is also the Director General of the Pushpa Gujral Science City, today marked the inauguration ceremony of the screening of a 40 minute-short film, titled 'American Wild National parks adventure'. The movie has been made to spread awareness among the youth about science and technology, innovations and conservation of wildlife and natural habitation, said DC Mohammad Tayyab.

The film explores America's most legendary outdoor places, sweeping overview of the national

for biodiversity conservation and should be strictly reserved for the betterment of the wildlife, said the Deputy Commissioner. The film was screened at the LPU space theatre of the Science City with IMAX cinematography.

The film has been produced in association with Brand USA and presented by Expedia, Inc and Subaru of America at a budget of 25,000 US Dollars. The movie has been directed by Greg Mac Gillivray, produced by Shaun Mac Gillivray and written by Stephen Judson and Tim Cahill, the authorities said.

Science City is preparing for new projects such as

## New Science City innovation hub for kids to study in creative way

**Jatinder Mahal**  
• [jatinder@redhat.com](mailto:jatinder@redhat.com)

**KAPURTHALA:** In a move to nurture new ideas and help develop the inquisitive perspective of science, the National Council for Science Museums (NCSM), the science wing of the Union ministry of culture, has set up an 'innovation hub' at Pushpa Gujral Science City.

The government has spent ₹1 crore on the hub and it would be functional for students in September.

*—Anshu Singh*

The hub is divided in several sections, including a discovery hall, innovation resource centre and the hall of fame, a design studio and an idea lab section



\* The government has spent ₹1 crore on the hub and it will be functional for students in September.

"The hub will serve as a springboard for new ideas and experiment with the concept. But in laboratories of the hub, students will get a chance

## FACILITIES

Discovery hall with 10 to 15 interactive science exhibits  
Innovation resource centre and hall of fame  
Idea lab to pursue creative and innovative hobbies.  
"Tod, phod and jod" (break and remake) corner  
"Kabad se jugad" (Build from scraps) corner.  
Design studio to design different products

jugad' (build from scraps), students would experiment with day-to-day scrap.

## Film Show for Journalist

## DAILY POST

June 02/2017

## National Parks are suitable places for bio-diversity conservation: Tyyab

**DP CORRESPONDENT**  
*Kapurthala*

Within a few days Pushpa Gujral Science city going to open Multi Skill Development Center in its premises under Skill India Programmed as apprised DC, Kapurthala cum Director General while interacting with media on on Friday. Under this program four courses including repair and maintenance of domestic electrical appliances, repair and maintenance of air conditioners, Computer Hard



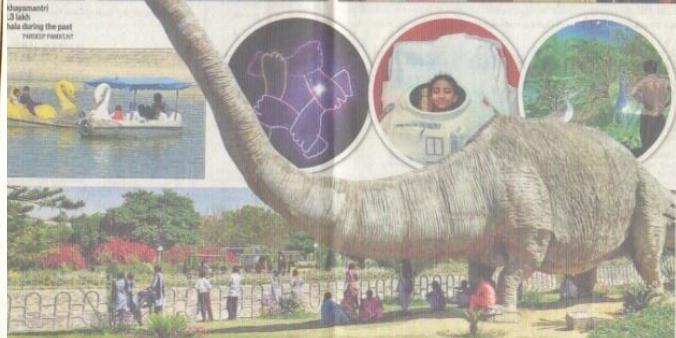
Students and others while witnessing the show Pushpa Gujral Science city on Friday.

## HIGHLIGHTS

- PGSC screens large format film "America Wild-National Parks Adventures"
- Science city to open Multi Skill Development Center very soon

DP The present film explores

**KNOWLEDGE IS POWER**



ਸਾਇੰਸ ਸਿਟੀ ਵਿਗਿਆਨਕ ਸਰਗਰਮੀਆਂ ਦਾ ਧੁਰਾ

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# Our Reviews and Feedbacks

**Gaurav Dhawan** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
12 February · 🌐

Wonderful place to hang around for science lovers . Dino park is awesome for children's and science museum is the main attraction . Love it .

Like Comment Share

Pushpa Gujral Science City, Kapurthala and Roshan Prajapati

Write a comment...

**Puneet Kumar** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
18 December 2017 · 🌐

It is really very wonderful place to visit. It is must visit place for students studying in 8th, 9th, 10th, 11th & 12th and dreaming their future in science stream. And it is also equally must visit place for all teachers.

Like Comment Share

Pushpa Gujral Science City, Kapurthala, Gurjeet Singh and Roshan Prajapati

**Guneet Singh Sandhu** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
30 May 2017 · 🌐

I visited the science city on 29th may 2017. I loved the place especially the planetarium. The show was amazing. I love the simulators. The place is full of knowledge especially to the kids. I recommend parents to visit the place with the kids at least once.

Like Comment Share

Pushpa Gujral Science City, Kapurthala, Gurjeet Singh, Guneet Singh Sandhu and 8 others

**Shelly Karan Sharma** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
9 May 2017 · 🌐

I visited the science city on 8th may 2017. I loved the place especially the planetarium. The show was amazing. The place is full of knowledge especially to the kids. I recommend parents to visit the place with the kids at least once.

Like Comment Share

**Aprajita Sharma** reviewed Pushpa Gujral Science City, Kapurthala - 4★  
21 August 2017 · 🌐

Loved the place especially the planetarium show and flight simulator. But missed night sky watching .

Like Comment Share

Ranjeet Maan

Write a comment...

**Chandra Shekhar Upreti** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
12 June 2017 · 🌐

I visited this place twice . It's full of knowledge esp for school going kids. I love the planetarium and laser show.

Like Comment Share

**Sarabjit Singh** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
26 June at 19:13 · 🌐

**A beautiful place for kids and their parents to learn a lot about Science.**

Like Comment Share

**Gurpreet Kaur Deol** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
15 June 2017 · 🌐

It is very nice place,,i visited there with staff members and school students,,,knowledge gaining+entertaining place,,,, there are so many people who don't knw about so many things,,they can gain knowledge, yesterday i mostly feel good in the globe,,,give us knowledge about our universes,,, i like 'back to moon',,,,,,i feel DT i WS really in the moon,,,and also enjoyed other shows,,,people must go this place to see it,,.

Like Comment Share

Gurjeet Singh, Davinder Goyal and 8 others

**4.4 ★** 4.4 of 5 stars  
248 reviews

5 stars	144
4 stars	65
3 stars	28
2 stars	4
1 star	7

**Satinder Pal Singh Aneja** reviewed Pushpa Gujral Science City, Kapurthala - 4★  
8 June at 22:35 · 🌐

I visited this place 1st time.it is very interesting and useful place for all students.

Like Comment Share

Write a comment...

**Davinder Goyal** reviewed Pushpa Gujral Science City, Kapurthala - 4★  
22 October 2017 · 🌐

I visited the science City as on 21.10.2017 with my family and with my friend and his family. GREAT Awesome place...Found it really informative for kids. The planterium show was very nice.If you have kids then you must visit once.3D show was not good, it require improvement as 3d glasses were not good and clean. One must go in early hours of day as it closes at 6PM. Over all a memorable experience!!!

Like Comment Share

Pushpa Gujral Science City, Kapurthala, Gurjeet Singh, Davinder Goyal and 2 others

**Monika Yadav** reviewed Pushpa Gujral Science City, Kapurthala - 4★  
20 March · 🌐

Its amazing..... very informative.... for all .... and specially for science students.... internal parks and sitting arrangements in the campus must be improved by the management....fun science was more informative and funny .... ultimately I must have to say... that everyone should visit SCIENCE CITY.... once....

Like Comment Share

Pushpa Gujral Science City, Kapurthala

Write a comment...

**Puneet Kumar** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
18 December 2017 · 🌐

It is really very wonderful place to visit. It is must visit place for students studying in 8th, 9th, 10th, 11th & 12th and dreaming their future in science stream. And it is also equally must visit place for all teachers.

Like Comment Share

**Pooja Dhiman** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
3 October 2017 · 🌐

I visited the science city on 2nd october,2017 . Awesome place...Found it really informative for kids. The planterium show was too good. Laser show was also entertaining.If you have kids then you must visit once. One must go in early hours of day as it closes at 6PM. Over all a memorable experience!!!

Like Comment Share

Pushpa Gujral Science City, Kapurthala, Gurjeet Singh, Roshan Prajapati and 2 others

**भुलीम गुरली** reviewed Pushpa Gujral Science City, Kapurthala - 5★  
4 March · 🌐

**An amazing place to bring family where your kids get to experince great lernings.**

Like Comment Share

Pushpa Gujral Science City, Kapurthala

# Financial Statement

## Operational Days & Visitors(April 2017-March 2018)

Item	2017-18
No. of days	365
No. of Visitors	3,79,989

## Operational Expenses during the year 2017-2018 (Amount in Rs-Lacs)

Items	Expenditure
Salary & Allowances	477.30
Administrative expenses	17.28
Operation & Maintenance expenses	159.15
<b>Total</b>	<b>653.73</b>

## Revenue generated during the year 2017-2018(Amount in Rs-Lacs)

Items	Income
Sale of Tickets	539.86
Sale of Parking Tickets	9.85
Lease /rent/space selling/sponsorship	42.91
Commission receipt (Souvenir Shop)	1.34
Commission receipt (Boating Sale)	3.42
Commission receipt (Trackless train)	1.47
Commission receipt (Photography)	1.90
Membership Fee	3.99
Receipt from Guest House/Convention Hall	3.68
Night Sky Watching	1.00
Miscellaneous	9.59
<b>Total</b>	<b>619.01</b>



# Annexure

## Members Of PGSC Society

1.	Minister- In -charge of Science & Technology, Punjab Civil Secretariat, Chandigarh	12	Director, National Institute of Technical Teachers Education & Research, Sector 26, Chandigarh
2.	One Minister from Punjab Govt. Punjab Civil Secretariat, Chandigarh	13	Director, Terminal Ballistic Research Laboratory Sector 30, Chandigarh – 160002
3.	(One Member Lok Sabha, Punjab)	14	Director, Confederation of Indian Industry (CII), Northern Region, Sector 31-A, Chandigarh-160047
4.	(One Member, Rajya Sabha, Punjab)	15	Director, NIPER, Phase-X, Mohali
5	Sh. Naresh Gujral, 5-A, Amrita Shergill Marg, New Delhi-110003	17	Secretary to Government of India, Ministry of Culture, Shastri Bhawan, New Delhi
6	Chief Secretary to Govt. of Punjab, Punjab Civil Secretariat, Chandigarh	18	Head NCSTC, Deptt. of Science and Technology, Technology Bhavan New Mehrauli Road, New Delhi-110016
7.	Principal Secretary, Deptt. of Finance, Govt. of Punjab Punjab Civil Secretariat, Chandigarh	19	Financial Advisor, Ministry of Culture, Shastri Bhavan, New Delhi-110001
8	Director, National Institute of Technology, Jalandhar	20	Vice Chancellor, Punjab Technical University, Jalandhar-Kapurthala Road, Kpt
9	Director, Central Scientific Instruments Organisation, Sector 30, Chandigarh	21	Vice-Chancellor, Central University of Punjab, Bathinda
10	Director National Agri-food Biotechnology Institute, Phase VIII, Industrial Area, Mohali	22	Vice Chancellor, Guru Nanak Dev University, Amritsar
11	Director IISER, Sec 81, SAS Nagar		



- |     |   |     |   |
|-----|---|-----|---|
| 23. | Vice Chancellor,<br>Punjab Agriculture University,<br>Ludhiana 141004                                     | 29. | Secretary,<br>School Education, Govt. of Punjab   |
| 24. | Vice Chancellor,<br>Punjabi University, Patiala   | 30. | Director<br>Science City, Kolkata-700046  |
| 25. | Vice Chancellor,<br>Panjab University, Sector 14,<br>Chandigarh-160014                                    | 31. | Chairman,<br>State Board of Technical Education,<br>Punjab                              |
| 26. | Vice Chancellor,<br>Baba Farid University of Health Sciences,<br>Faridkot                                 | 32. | Director,<br>National Science Centre,<br>New Delhi- 110001                              |
| 27. | Principal Secretary,<br>Deptt. of Science, Technology and<br>Environment,<br>Mini Secretariat, Chandigarh | 33. | Executive Director,<br><br>Punjab State Council for Science &<br>Technology, Chandigarh |
| 28. | Principal Secretary,<br>Deptt. of Industries, Govt. of Punjab,<br>Udyog Bhawan, Sector 17, Chandigarh     | 34. | Director General/Member Secretary<br>Pushpa Gujral Science City<br>Kapurthala           |
| 28. | Secretary,<br>Deptt. of Higher Education ,Govt. of<br>Punjab  |     |   |

## Members of the Governing Body

- |  |   |
|--|---|
| 1. Chief Secretary to Govt. of Punjab,<br>Punjab Civil Secretariat, Chandigarh                           | 12 Director General<br>CSIR, Anusandhan Bhawan,<br>2, Rafi Ahmed Kidwai Marg, New Delhi – 110 001               |
| 2 Sh. Naresh Gujral,<br>5-A, Amrita Shergill Marg,<br>New Delhi –110001                                  | 13 Vice Chancellor,<br>Punjab Technical University,<br>Jalandhar  |
| 3 Sh. Santokh Singh Chaudhary (Member of Lok Sabha)<br>H.No. 168, Vijay Nagar, Jalandhar City, Punjab    | 14 Chairman,<br>CII, Northern Region, Sector 31-A, Chandigarh-<br>160047  |
| 4 S. Rana Gurjit Singh (MLA Punjab Vidhan Sabha)<br>Ekta Bhawan, Circular Road, Kapurthala               | 15 Head, NCSTC, Deptt. of Science and Technology,<br>Technology Bhavan, New Mehrauli Road, New Delhi-<br>110016 |
| 5 Secretary to Government of India,<br>Ministry of Culture,<br>Shastri Bhawan, New Delhi                 | 16 Executive Director,<br>Pb. State Council of Sc. & Tech., MGSIPA Building,<br>Sector-26, Chandigarh           |
| 6 Secretary to Govt. Of Punjab<br>Deptt. Of Science and Tech & Env.<br>Punjab Civil Sectt. 2, Sec 9, Chd | 17. Editor, Daily Ajit (Punjabi) and AjitSamachar(Hindi),<br>Nehru Garden Road, Jalandhar City                  |
| 7 Principal Secretary<br>School Education<br>Punjab Civil Sectt. 2, Sec 9, Chd                           | 18. Joint Editor, Hind Samachar Group / Punjab Kesari,<br>Civil Lines, Jalandhar                                |
| 8 H.H. (Brig.) Sukhjot Singh,<br>The Villa, Kapurthala   | 19 Chief Editor, Daily Post<br>Chandigarh   |
| 9 Vice Chancellor,<br>Central University of Punjab,<br>Bathinda, Punjab                                  | 20 Director, National Science Centre<br>Near Pragati Maidan Gate No. 1,<br>New Delhi                            |
| 10 Vice Chairman,<br>CRRID, Sector-19-A, Madhya Marg, Chandigarh   | 21 Director, NIPER<br>Phase-X, Mohali   |
| 11. Director<br>Central Scientific Instruments Org.,<br>Sector 30, Chandigarh – 160020                   | 22 Principal Secretary,<br>Tourism, Govt. of Punjab,<br>Punjab Civil Secretariat - II Sector 9 ,Chd             |



- |   |   |
|---|---|
| <p>23 Financial Advisor<br/>Ministry of Culture, Shastri Bhavan, New Delhi</p>  | <p>27 Deputy Commissioner,<br/>Kapurthala</p>   |
| <p>24 Director<br/>Terminal Ballistic Research Laboratory,<br/>Sector 30, Chandigarh</p>  | <p>28 Vice Chancellor<br/>Maharaja Ranjit Singh State Technical University<br/>Punjab</p> |
| <p>25 Director,<br/>National Institute of Technology,<br/>Jalandhar</p>   | <p>29 Director General/Member Secretary<br/>Pushpa Gujral Science City<br/>Kapurthala</p> |
| <p>26 Director General<br/>Sardar Swarn Singh National Institute<br/>of Bio-Energy ,Jalandhar-Kapurthala Road,<br/>Kapurthala</p> |   |