



**Bhagat Phool Singh Mahila  
Vishwavidyalaya, Khanpur Kalan**

**ORGANIZES**

# **SCIENCE CONCLAVE**



**6-7 November, 2023**



**9am**



**Multi-purpose hall  
Teaching Block- I**

**THEME:**  
**Role of science  
and technology  
in sustainable  
development  
and human  
welfare**



**SPONSORED BY:**

**Directorate of Science and Technology, Department of Higher  
Education, Government of Haryana**



## About the university

Today's Bhagat Phool Singh Mahila Vishwavidyalaya is the 'dream come true' of Bhagat Phool Singh Ji, who established a Gurukul for girls at Khanpur Kalan in 1936. Even after the demise of Bhagat Phool Singh ji, his equally dynamic daughter Subhashini Ji not only took control of Gurukul but worked vigorously in expanding the Gurukul in terms of its various constituent institutions like BPS Memorial Girls' College (1967), BPS College of Education (1968), MSM Ayurvedic College (1973), BPS Mahila Polytechnic (1984), TIG Bhainswal Kalan (1999) and PSD Girls' Law College (2003). The State Government under the leadership of Shri Bhupinder Singh Hooda, the Honorable Chief Minister of Haryana took cognizance and upgraded the erstwhile Gurukul to the status of a University exclusively for women in August 2006 and christened it as Bhagat Phool Singh Mahila Vishwavidyalaya, which happens to be the first State Women University of North India. Since then BPSMV has undergone a complete transformation; a 75 years old Gurukul started with only three girls has turned into a modern university with approximately 7000 girls on its rolls studying in various programmes.

## About the Department

To promote and cater the needs of girl's student in Science and Technology domain in rural Haryana, Bhagat Phool Singh Mahila Vishwavidyalaya established the Department of Basic and Applied Sciences in 2013 to pursue research and academic courses in science domains across several disciplines viz. Mathematics, Physics, Chemistry and Environmental Sciences. Initially, two year postgraduate Programme in Mathematics was started with an intake of 30 students. Since its inception, multiple efforts are underway to strengthen the department and later on in 2019 two new postgraduate programmes viz. Physics and Chemistry were also introduced. The department has well equipped computing, physics and chemistry labs based upon the latest technologies pertaining to different sectors. These facilities are also made accessible to other departments of the University and department also shares various central facilities of University. The department regularly organizes environmental awareness, solid waste management and resource conservation campaigns at department and university level. Besides master's courses, department also offers doctorate Programme in Mathematics and Physics

## About the DST

The S&T department was created on March, 1983. Promotion of renewable energy programmes was one of the thrust area and objective of the deptt. and most of the resources were concentrated in this direction. In 1995, State Govt. created new Department of Non Conventional Energy Sources by bifurcating the S&T Deptt. Accordingly, priority areas of Deptt were reframed.

## About the Science Conclave

BPS Mahila Vishwavidyalaya, Khanpur Kalan proposes to organize a two days Science Conclave (SC-2023) on the theme "Role of Science and Technology in Sustainable Development & Human Welfare" in collaboration with Department of Science and Technology (Haryana) under the scheme 'Organization of Science Conclave' during 6-7th November, 2023. The conclave is aimed at interaction program of eminent Academicians, Scientists, Technologists and Industrialists with selected students, young teachers & researchers to inspire and motivate them towards Careers in Basic Sciences. It provides an effective platform for the scientific interaction and have targets to involve and include commoners with a view to improve their scientific understanding, knowledge and temperament for these initiatives and appreciation for various feats in science & technology.

**Eligibility: Students of 8th to 12th of  
Govt./Aided/Private Schools**

## **SUB THEMES:-**

### **Science Exhibition**

- Energy-resource and conservation
- Waste minimization and management.
- Role of basic science in human welfare.
- Basic science and sustainable development.
- Environmental concerns.
- Advancement in basic sciences
- Historical development with present innovation.
- ICT and Swachh Bharat mission.

### **Poster Presentation**

- Technology and sustainable development
- Green and clean energy
- Prevention of pollution
- Science and the home
- Magic of science
- Virtual labs- basic science
- Addiction of social media
- Exercise and health
- Minimizing Plastic

### **Science Essay Writing**

- Chandryaan-3
- Technological advancement
- Role of science in human welfare
- Plastic: Boon or Crush
- Human cloning: ethical/unethical
- Impacts of human on earth
- Role of Women in science
- Women in environment protection
- Green revolution and environment
- Science in ancient India
- Benefits of clean and green fuel

### **Science Quiz**

- Basic Science



# General Guidelines

## POSTER MAKING

- Poster should be based on mentioned theme only.
- A single poster from each participant.
- Poster should be made on spot.
- Duration: 75 minutes
- Pencil/Crayon/Other required material should be carried by participants
- Registration no. is to mentioned on poster rather than name.
- Sheet will be provided by the organizers.
- Title of the poster should be mentioned clearly on the sheet
- Students have to present their poster within 2-3 minutes in front of judges

## SCIENTIFIC MODEL

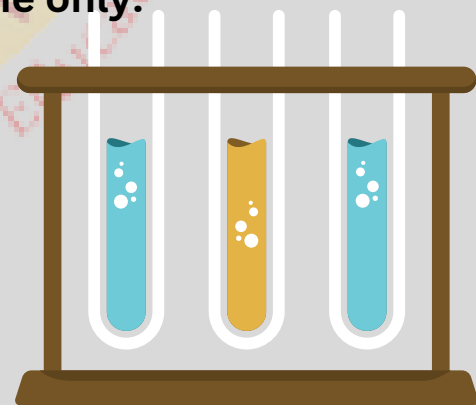
- Scientific model should be based on mentioned theme only.
- Maximum three participants are allowed to present a scientific model.
- Name/class/school/college etc. should not be mentioned.
- Student will have 5-8 minutes to present their model to judges.

## SCIENCE ESSAY WRITING

- Science essay must be based on mentioned theme only.
- Individual participation only.
- Duration: 60 minutes.
- Word limit: 750-1000 words.
- Use only blue and black colored pen.

## SCIENCE QUIZ

- Participants in a team: 3
- Sub-teams: students of class 8th to 10th and 11th to 12th
- Medium of quiz: English/Hindi
- There will be screening round if number of teams are more than 8
- Rules and Regulations can be changed depending upon the circumstances and number of entries
- All the rights related to competition are reserved to organizers of science conclave





# ORGANIZING COMMITTEE

Parton-in-chief

**Prof. Sudesh**

Vice Chancellor  
BPSMV

Parton

**Prof. Sanket Vij**

Dean Academic Affair  
BPSMV, Sonipat

Programme  
Director

**Dr. Sunil Kumar**

Chairperson, Dept. of  
Basic and Applied  
Sciences  
BPSMV, Sonipat

Convenor

**Prof. Vijay**

**Nehra**

Dean Faculty of  
Engineering and  
Technology  
BPSMV, Sonipat

Convenor

**Dr. Bhupinder Singh**

Associate professor,  
Dept. of Basic and  
Applied Sciences  
BPSMV, Sonipat

Organizing  
Secretary

**Dr. Asha**

Assistant professor, Dept.  
of Basic and Applied  
Sciences  
BPSMV, Sonipat

**AND**

Faculty Members, Research Scholars, Students and Non-teaching  
staff of Department of Basic and Applied Sciences



# **SCHEDULE:**

DAY 1

NOVEMBER 6, 2023

Registration : 9am to 10am

Inaugural Session: 10am to 11:30am

Tea Break: 11:30am to 12:00pm

Invited Talk: 12:00pm-01:00pm

Lunch: 01:00pm-02:00pm

Poster Making: 02:00pm-03:15pm

Essay Writing: 03:15pm-04:15pm

Cultural Events: 04:15pm-05:15pm

## **NOTE:**

**SCIENCE EXHIBITION**

**DAY 1: 12:00PM TO 05:00PM**

**DAY 2: 10:00AM TO 02:00PM**



DAY 2

NOVEMBER 7, 2023

Registration : 9am-10am

Welcome Address: 10am-10:15am

Invited talk 1: 10:15am-11:15am

Tea Break: 11:15am to 11:45am

Invited Talk 2: 11:45am-12:45pm

Lunch: 12:45pm-01:45pm

Invited talk 3: 01:45pm-02:45pm




Valedictory Functions: 03:15pm-04:15pm

Prize Distribution: 04:15pm-05:00pm

## **REGISTRATION**

- Download registration Performa from University website:  
 [www.bpsmv.ac.in](http://www.bpsmv.ac.in)
- Performa should be duly filled and forwarded by Principal/Head.
- Opening Date: October 1, 2023  
Closing date: October 15, 2023
- Mail your Performa at:  
 [scienceconclavebas@gmail.com](mailto:scienceconclavebas@gmail.com)

**In case of any query feel free to contact/Mail:**

-  Dr. Neetu, 9034452108
-  Ms. Parul, 9466531055
-  Ms. Renu, 8168631186

 [scienceconclavebas@gmail.com](mailto:scienceconclavebas@gmail.com)

# WOMEN IN SCIENCE

## Asimna Chatterjee: India's first female scientist

Asima Chatterjee (23 September 1917 – 22 November 2006) was an Indian organic chemist noted for her work in the fields of organic chemistry and phytomedicine. Her most notable work includes research on vinca alkaloids, the development of anti-epileptic drugs, and development of anti-malarial drugs. She also authored a considerable volume of work on medicinal plants of the Indian subcontinent. She was the first woman to receive a Doctorate of Science from an Indian university.



## Nandini Harinath: Mission designer at ISRO

Nandini Harinath is a scientist at ISRO's (Indian Space Research Organisation) Satellite Centre in Bengaluru. She is a part of the Mars Orbiter Mission, Mangalyaan. She has co-authored a research paper on mission planning, analysis and operations—Outline of key components..



**AND MANY MORE.....**