Department of Physics
Miranda House
The Physics Department was constituted in 1972. It started with a batch of 40 students who had enrolled for the B.Sc. Honours Physics course. The classes were held in the Department of Physics and Astrophysics, University of Delhi. The Department shifted to the College in December, 1988. Since then the department has grown in terms of academics, research and faculty strength. There are well equipped teaching laboratories, computer rooms and a Departmental Library. Miranda House is known for its innovation and quality of the projects carried out by the students. The college has set up a special Projects Laboratory and a Multidisciplinary Computer-based Laboratory that meets global benchmarks.
**Student Activities**

**Talks and Events - Highlights**

**Inspire Talk by Prof. Venkatraman Ramakrishnan**
Nobel Laureate-Chemistry, 2009

December 2013

**Interactive Session with Dr. Ellen Stofan**
NASA Chief Scientist

The event was organized on invitation by FICCI.

November 2014

**An event on International Cosmic Day**
Organized by MH in association with DESY, Fermilab, QuarkNet & Netzwerk Teilchenwelt.

November 2016

**Interactive Session with Dr. Diane Evans**
Director, Earth Science and Technology Directorate, Jet Propulsion Lab, NASA.

February 2016
Student Activities
in
D. S. Kothari Centre for Research & Innovation in Science Education

Robotics Laboratory

Material Science Research Laboratory
Student Internships and Awards

- **In House**
  - Inspire
  - DSKC
  - Innovation Project

- **India**
  - DU, IIT, IISc, TIFR, IISER, SINP, DRDO, NPL, IUAC, IUCAA

- **Abroad**
  - Max Planck Institute, Caltech, Princeton, Osaka U.

- **Awards:** Our students are recipients of University Rankers Award, and college awards like the Golden Jubilee Award, DSKC Science Award, Dr. K. S. Krishnan Gold Medal etc.

- **Co-curricular activities** such as NCC, NSS and Sports.

- **Extracurricular activities** such as debating, fine arts, dance and dramatics, music etc.
Progression

- Majority of the students pursue Masters and Integrated Ph.D. programme in Physics in reputed Universities and Institutes in India (DU, JNU, JMI, IIT, NIT, IISER etc.) and abroad (John Hopkins, Bonn U., RWTH-AACHEN).

- Few students go for various avenues such as MBA, MCA programme and Civil Services.
Our Alumnae

Students to Cambridge

Darshana Joshi

Civil Services

IANS, AIR-24, 2015

Nimisha Kumari

Internships and Awards

Khumanthem Diana

Shovana Narayan

Howard University, Washington, D.C

Jaya Chaudhary

Framingham State University

Pratibha Dev

Faculty in US

Vandana Singh

Mitacs Undergraduate Award

Ishwita Saikia

International Science Camp by XLAB, University of Goettingen

Pragya Chawla

SURF-2011, LIGO, Caltech

Sai Ahdadini Tripathy
Dr. Pratibha Jolly
- GIREP 50th Anniversary Medal
- Honour for Life time Contribution by IAPT
- Ambassador for Peace Award

Ms. Suchita Agrawal and Ms. Rajnandini Mukherjee
The e-Yantra Robotics competition.

Ms. Sarbani Chatterjee
Digibeti Presentation Contest 2017

Dr. Monika Tomar
Excellence Awards for Teachers

Dr. Pratibha Jolly, Dr. Usha Malik and Dr. Mallika Verma among nine science faculty members
Australian Leadership Fellow Award

Ms. Nishi Sharma
Laureates and Leaders Summit 2016

Ms. Unnati Akhouri
- S. N. Bose Scholar
- International Student Intern at Princeton Univ.
- Sakura Exchange Scholar in Osaka Univ., Japan.
Faculty research interests

- Theoretical Chemical Physics
- Cosmology
- High Energy Physics
- Physics Education Research
- Digital Image Processing and Opto-Electronics
- Non-linear Dynamics
- Experimental Material Science
- Quantum Optics and Quantum Information
- Passive Architecture
- Applied Optics
### Faculty

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<tr>
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<tbody>
<tr>
<td>Dr. Pratibha Jolly</td>
<td>Dr. Charu Goel</td>
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<td>Dr. Saroj Mahajan</td>
<td>Dr. Sonam Singh</td>
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<td>Dr. Mallika Verma</td>
<td>Dr. S.N. Sandhya</td>
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<td>Dr. Rashmi Rakshit</td>
<td>Dr. Geeta Ray</td>
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<td>Dr. Sanju</td>
<td>Dr. Sunita Singh</td>
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<td>Dr. Vandana Verma</td>
<td>Dr. Ravi Prakash</td>
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<td>Dr. Abha Dev Habib</td>
<td>Dr. Divakar Pathak</td>
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<td>Dr. N. Bilasini Devi</td>
<td>Dr. Geeta Rani</td>
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<td>Dr. Monika Tomar</td>
<td>Dr. Nirmala Saini</td>
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<td>Mrs. Sumana Devi</td>
<td>Dr. Beerandra Singh</td>
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### Lab Staff

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<tr>
<td>Mr. Raj Kumar Rana</td>
<td>Mr. Naveen Chandra Bhatt</td>
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<td>Mr. Ranveer Singh</td>
<td>Mr. Naresh Kumar</td>
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<td>Mr. Khem Raj</td>
<td>Mr. Shashi Kumar</td>
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<td>Mr. Cherian Daniel</td>
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<td>Mr. Vinod Kumar</td>
<td>Mr. Jay Prakash</td>
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<td>Mr. Satish Kumar</td>
<td>Mr. Himanshu</td>
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<td>Mr. Sahansarpal Singh</td>
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