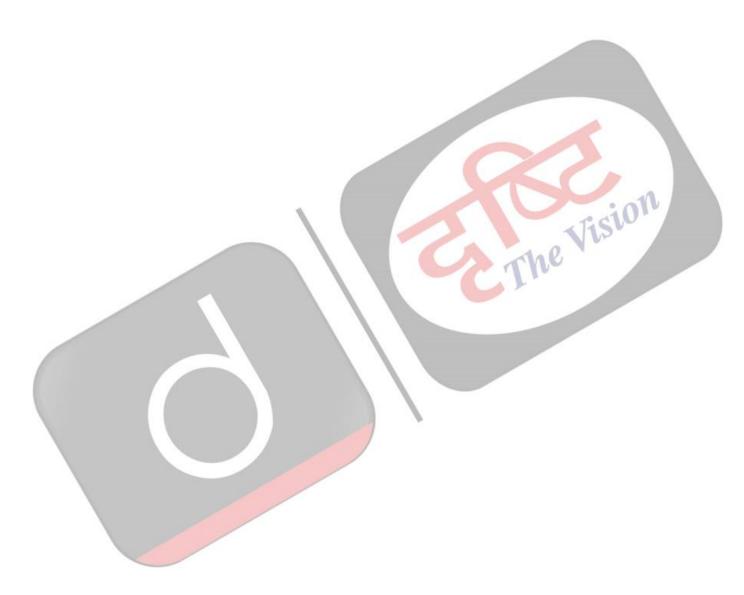


Women in STEM

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International Day for Women and Girls in

Science

ABOUT

- Celebrated every year on February 11 since 2015
- Observed by the United Nation to promote the full and equal access and participation of women in Science, Technology, Engineering and Mathematics (STEM) fields.

THEME 2023

■ Innovate. Demonstrate. Elevate. Advance. Sustain (I.D.E.A.S.)

STATUS OF WOMEN PARTICIPATION IN THE SCIENCE SECTOR

- According to the All India Survey on Higher Education 2020-2021, number of science researchers in India has doubled from 30,000 in 2014 to over 60.000 in 2022.
- Women's participation is the highest in biotechnology at 40% and medicine at 35%.

INITIATIVES TAKEN FOR WOMEN IN SCIENCE

- Gender Advancement for Transforming Institutions (GATI):
 - To develop a comprehensive Charter and a framework for assessing Gender Equality in STEM.
- Vigyan Jyoti Scheme:
 - To create a level-playing field for the meritorious girls in high school to pursue STEM in their higher education.
- Indo-US Fellowship for Women in STEMM (WISTEMM) program:
 - Women scientists can work in research labs in the US.
- Consolidation of University Research for Innovation and Excellence in Women Universities (CURIE) Programme:
 - Improving R&D infrastructure and establishing state-of-the-art research facilities in order to create excellence in S&T in women universities.

Women who Shaped India's Scientific History



Anandibai Gopalrao Joshi (1865-1887)

- First Indian female to study and graduate with a degree in western medicines from the United States.
- Believed to be the first women to set foot on American soil from India.



Kadambini Ganguly (1861-1923)

Becomes India's first female doctor & practitioner of western medicine in the whole South Asia.



Bibha Chowdhary (1913-1991)

- First woman high energy physicist of India and the first woman scientist at the TFIR.
- IAU honoured her by naming a white yellow dwarf star after her name.



Edavaleth Kakkat Janaki Ammal (1897-1984)

- Made significant contributions to genetics, evolution, phytogeography and ethnobotany.
- First director of the Central Botanical laboratory at Allahabad.



Debala Mitra (1925-2003)

- First Inidan archaeologist served as Director General of the Archaeological Survey of India.
- Explored and excavated several Buddhist sites.



Kamala Sohonie (1911-1998)

- First Indian woman to receive a PhD in a scientific discipline.
- Discovered the enzyme 'Cytochrome C' (helps in energy synthesis).



Anna Mani (1918-2001)

First woman to join the Meteorological department.



Kamal Ranadive (1917-2001)

Established India's first tissue culture research laboratory at the Indian Research Centre in Mumbai.



Sanghamitra Bandyopadhyay

- She has been conferred the Padma Shri in 2022.
- She is the first woman director of the Indian Statistical Institute.



Ms. Sujatha Ramdorai

- She was awarded the Padma shri award in 2023
- She became the first Indian to win the prestigious ICTP Ramanujan Prize in 2006.
- She was also awarded the Shanti Swarup Bhatnagar Award, the highest honour in scientific fields by the Indian Government in 2004.
- She is also the recipient of the 2020
 Krieger-Nelson Prize for her exceptional
 contributions to mathematics research



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