



Women in Physics in Pakistan

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Let me share a beautiful quotation goes very well with the theme of ICWIP 2023.

“I have a feeling that if women of india take to science and interest themselves in the progress and advance of science as well ,they will achieve what even men have failed to do.Women have one quality—the quality of devotion .It is one of the most important passports to success in science .Let us therefore not imagine that intellect is a sole prerogative of males only in science”

C.V.Raman

A Physicist 1888-1970

Layout of Presentation :

- ▶ Introduction
- ▶ Insights
- ▶ Result and Discussion
- ▶ Way forward



Introduction:

In this study, we will explore the underlying causes for the underrepresentation of women in physics. We have observed that the number of female enrollees is higher than that of male students, yet this number significantly reduces when it comes to postgraduate studies or faculty positions. After gathering input from various groups of girls and career women.

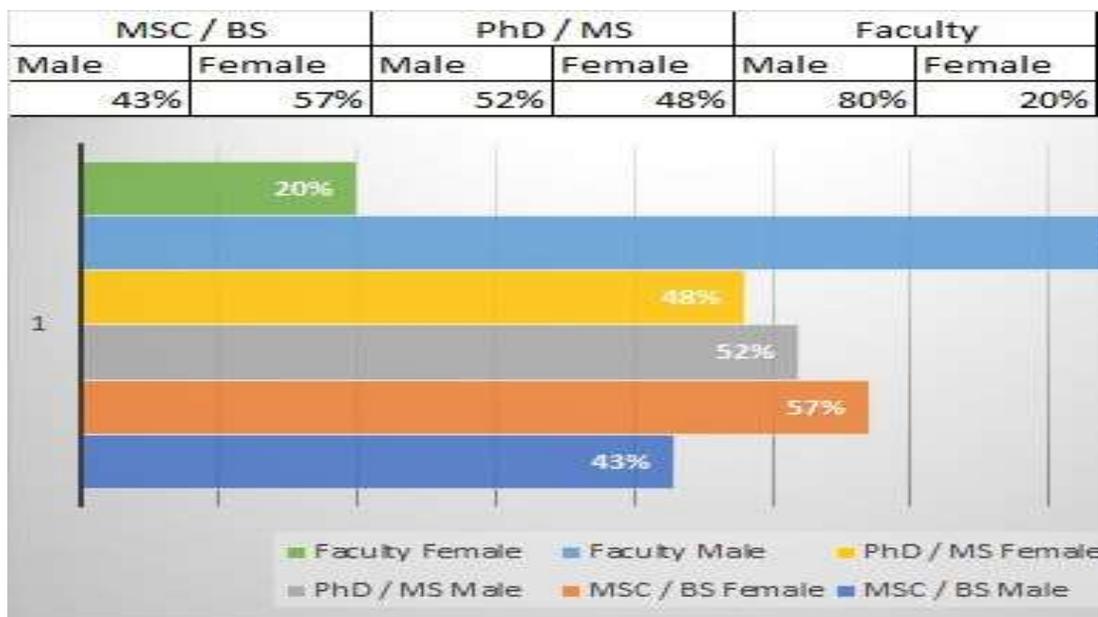


Insights:

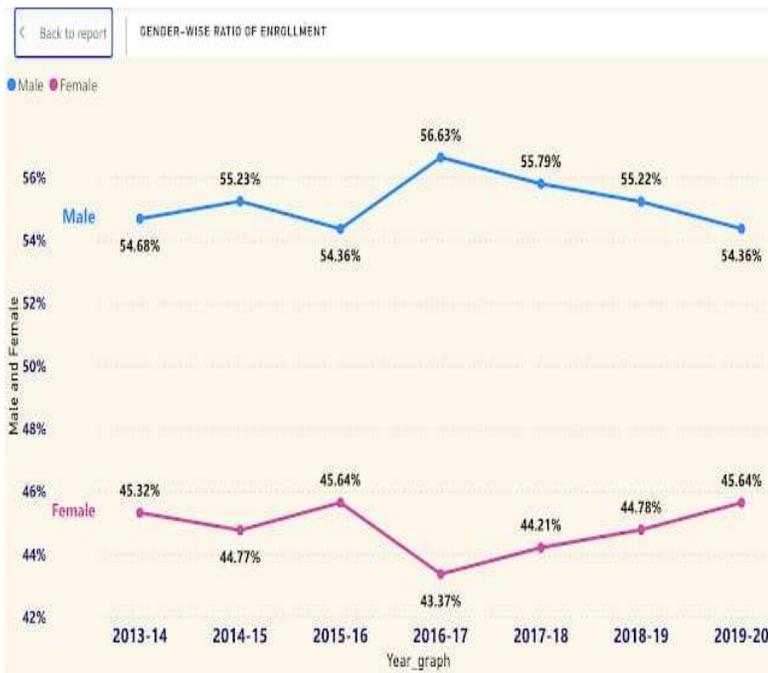
- ▶ In a developing country where almost 50 % population comprises of women ,we can't afford to neglect their rights protected by constitution of Pakistan.
- ▶ Sustainable development goal ,SDG 5 "Achieving gender equality and empowering all women and girls". Education is the best tool to empower.
- ▶ Women must be considered equal partners in the economic growth of a country.
- ▶ In the following slide, problems identified will be discussed.

Results and Discussions :

Following Data reflects the case of our Physics Department.



Data from HEC, Pakistan

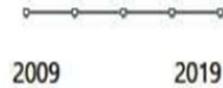


TRACER SURVEY-Indigenous 5000 Ph.D. fellowship Program

A look back in to the future

participants

502 Ph.D.



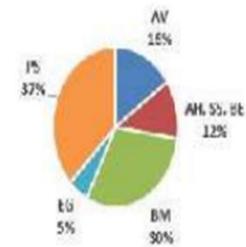
completed Ph.D. between
2009 to 2019

gender

Male 77%

Female 23%

disciplines



Way Forward :

- ▶ From IUPAP 2002 till now ICWIP 2023 we gathered enough data to find the reasons of underrepresentation of women in physics.

let us list a few ,

- ▶ Cultural and Socio-economic factors....
- ▶ Lack of Role models ,very few success stories for young minds.
- ▶ Lack of Accountability
- ▶ No support system ,,,etc.

what can be the solution,

- ▶ In this era of social media, we must have support groups where women can share their problems (without the fear of judgement)with experts and fellow scientists.
- ▶ More awareness, more stories to inspire young girls.
- ▶ In this culture of *publish or perish*, be more compassionate and understanding in a professional setup to make lives a little less difficult for a girl or mid career women juggling between the roles society imposed.
- ▶ Mentorship, training programs and access to scientific research facilities ,more collaboration.
- ▶ *To change the mindset of society is still a big question mark but things are much better than years ago.Awareness and acceptance of problems make things a litl easy...we Hope for a bright tomorrow for our young girls....*

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