

# Mubashir Hamid Mir

## Assistant Professor



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📍 W/2 Plan Bandipora

📅 04/07/1984

🚩 Indian

💍 Married

### EDUCATION

- 12/2012 – 09/2017 **University of Kashmir, Ph.D.**  
Srinagar, India Spectral Time Evolution and Variability in **Black Hole** X-ray Binaries.
- 01/2011 – 12/2012 **University of Kashmir, M.Phil**  
Srinagar, India Spectral Properties of Accretion Disk in X-ray Binaries
- Srinagar, India **University of Kashmir, MSc. Physics**

### PROFESSIONAL EXPERIENCE

- 08/2016 – present **Higher Education Department, J&K, Assistant Professor**  
Baramulla, India I was selected as an Assistant Professor in the Higher Education Department in August 2026. Presently, I am serving at Govt. Degree College Baramulla, an autonomous institution, where I teach undergraduate students. Our college follows the National Education Policy (NEP) 2020 framework and offers a Four-Year Undergraduate Program with a research component, aiming to foster critical thinking, innovation, and academic inquiry among students.
- 07/2019 – present **Inter University Centre for Astronomy & Astrophysics (IUCAA),**  
Pune, India Visiting Research Associate
- 2014 **One year teaching experience at Post Graduate level, 2014, University of**  
Srinagar, India **Kashmir, Teaching Assistant**

### PUBLICATIONS

**A model for the energy-dependent time lag and r.m.s of the heartbeat oscillations in GRS 1915+105,** Mubashir et al., MNRAS, 2016, 457, 2999-3005, ISBN/ISSN 0035-8711

**Modeling the response of a standard accretion disc to stochastic viscous fluctuations,** Naveel et al., New Astronomy, Vol. 58 ISBN/ISSN1384-1076

**Correlation functions for extended mass galaxy clusters,**  
Iqbal et al., MNRAS, 2012,424, L31-L33 ISBN/ISSN 1745-3933

**Peculiar motions of galaxy clusters: Correlation function approach,;**  
Iqbal et al., ApSS, 352, Issue 2, 621 ISBN/ISSN0004-640X

## PROFILE

I hold a Ph.D. in Astronomy, with my research focused on the spectral and temporal properties of black hole binaries. I am deeply passionate about teaching physics and have been serving as an Assistant Professor in the Higher Education Department since 2016. I have also qualified the NET/JRF in Physical Sciences.

Currently, I teach undergraduate students at an autonomous college, where I actively guide students from the 7th and 8th batches in their academic projects and research work besides the routine classwork.

## COURSES/WORKSHOPS/CONFERENCES

10/2024 – 11/2024 Baramulla, India	<b>Participated in Two-Week Inter-Disciplinary Research Workshop (Refresher Course) on “ Advanced Analytical Instrumentation Tools &amp; Techniques”,</b> GDC Baramulla from 22nd Oct– 4th Nov, 2024.
03/2022 Baramulla	<b>Participated in week long FDP programme on “Use of ICT with special Emphasis on LMS”</b> GDC Baramulla in March 2022, GDC Baramulla
IIM, Jammu, India	<b>Participated in “Management Capacity Enhancement Program”,</b> IIM Jammu
10/2021 – 11/2021 New Delhi, India	<b>Participated in Two Week Refresher Course in Physics organized by Ramanujan College,,</b> University of Delhi
New Delhi, India	<b>Participated in Faculty Development Programme (FDP) organized by Ramanujan College,,</b> University of Delhi in Feb. 2021
01/2021 Srinagar, India	<b>Participated in the Refresher Course in Sciences,</b> UGC-HRDC, University of Kashmir 2nd-15th Jan, 2021
11/2016 – 12/2016 Srinagar, India	<b>Participated in 72nd General Orientation Course,</b> UGC-HRDC, University of Kashmir Nov-Dec, 2016
03/2014 Mohali, India	<b>Poster Presentation in Astronomical Society of India,</b> IISER Mohali , March 18-22, 2014
IUCAA, India	<b>Workshop on Python Programming in Astronomy,</b> IUCAA, 2014
IUCAA, India	<b>MIT-IUCAA Workshop on X-ray Studies of Transient Astronomical Sources 13-24 Jan, 2014,</b> IUCAA
10/2013 Srinagar, India	<b>Conference on High Energy Emission from AGN,</b> University of Kashmir

09/2013 Srinagar, India	<b>KU-IUCAA workshop on Astronomical Tech. &amp; Science with Virtual Observatories, KU 23-26, Sep2013</b> , University of Kashmir
IUCAA, India	<b>2nd IUCAA X-ray Astronomical School</b> , IUCAA, Feb. 4- March 2,2013
TIFR, Mumbai, India	<b>Winter School on Astronomical and Cosmological surveys,,</b> TIFR, 10-17 Dec. 2012
Kathmandu, Nepal	<b>International Conference on Astrophysics &amp; Cosmology</b> , Nepal, 19-21 March 2012
02/2012 Prayagraj, India	<b>Winter School on High Energy Astrophysics: Accretion onto compact objects</b> , HRI
10/2011 Srinagar, India	<b>Joint KU-IUCAA Workshop on Stellar Astrophysics</b> , University of Kashmir

## LANGUAGES

☒ English
 ☒ Kashmiri
 ☒ Hindi/Urdu

## INTERESTS

Reading

## AWARDS

Junior Research Fellow (JRF)/Senior Research Fellow(SRF), UGC-CSIR

## SKILLS

Python, Fortran, Matlab ● ● ● ● ● Data Analysis, AI ● ● ● ● ●

## REFERENCES

**Prof. Naseer Iqbal**, *Professor*, University of Kashmir

**Prof. Ranjeev Misra**, *Professor*, IUCAA

**Prof. Mohd. Shafi Lone**, *Principal*, GDC Baramulla

**Prof. Tariq Ahmad Chalkoo**, *Associate Professor*, GDC Baramulla