



## SYED MUBASHIR AHMAD

Address: Alamanag Khag Badgam-193411-Jammu and Kashmir, India  
Email ID- [syedmubashirahmad17@gmail.com](mailto:syedmubashirahmad17@gmail.com) , [msyedphyl@gmail.com](mailto:msyedphyl@gmail.com)

### PERSONAL DATA

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D.O.B	27-September-1996
Gender	Male
Nationality	Indian

### EDUCATION

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<b>Integrated MSc Physics</b>	2016-2021
Central University of Kashmir, Ganderbal, Jammu and Kashmir, India	
MSc (Specialisation condensed matter physics)	2019-2021
BSc	2016-2019

### RESEARCH EXPERIENCE

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<b>Internship</b>	December 2021 - Present
Special Laboratory for Multifunctional NanoMaterials, National Institute of Technology, Srinagar, JK, India	
<ul style="list-style-type: none"><li>• Synthesized different nano structures of varying morphologies of Zinc and Iron Oxide through hydrothermal method.</li><li>• Performed SEM characterization and X-Ray diffraction of samples.</li><li>• Currently studying electrical, magnetic, and optical properties of obtained nano structures and effect on these properties by varying morphologies.</li></ul>	

<b>MSc Dissertation</b>	April 2021 to October 2021
Department of Physics, Central University of Kashmir	
<b>Probed ferroic properties of multiferroic materials</b>	
Under supervision of Dr Mehrajud din Rather *	

- Synthesized ferroelectric Gadolinium doped Barium Titanate (GdBT) and spinel magnetic phase Gadolinium doped Cobalt ferrite (GdCFO) by solid state reaction method and sol-gel method respectively and the composite phase by solid state route.
- Performed SEM characterization and X-Ray diffraction of single and multiphase samples.
- The structural, dielectric, ferroelectric and magnetic properties have been studied in detail.
- Performed density and porosity calculations of GdBT, GdCFO and GdBT-GdCFO composite.

## POSTER PRESENTATIONS

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Poster presentation titled “Nanotechnology and its Role in solar energy harvesting” in International 2021

7 September-11 September

Conference on “Nanotechnology for better living”  
ICNBL-21

National Institute of Technology, Srinagar, India

## CONFERENCES/WORKSHOPS

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- ICNBL-21

International Conference on “Nanotechnology 2021 for better living”

7 September -11 September

National Institute of Technology, Srinagar, India

- Workshop 2020

International workshop on emerging trends in High energy physics and condensed matter physics  
Department of physics, GDC Budgam, India

11 January – 12 January 2020

## PROGRAMMING AND SOFTWARE SKILLS

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- C Programming
- Python
- MATLAB
- Numerical analysis using C
- Origin software

## TRAINING PROGRAMS

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Skill Development and Training programme

21 June -25 June 2021

Energy materials: **Fundamentals to Device Fabrication by CSIR-CECRI**, Karaikudi Tamil Nadu, India (Certificate course).

## EXTRACURRICULAR ACTIVITIES

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- Active member of JK Scientists-Physics-Nano-Material Club.
- Graduate student member of American physical society (APS) from 28-June-2021 to 31-May-2022 (APS account number: 62079842).
- Student representative of physics department, Central University of Kashmir.
- Class representative batch 2016 of physics department, Central University of Kashmir.
- Worked with local NGO for social services (2014-2015).
- Received Air India Rank Award 2006.

## TEACHING EXPERIENCE

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Presently Teaching classical mechanics to MSc 1<sup>st</sup> Semester batch as teaching assistant at SSM College Of Engineering and technology, Parrihaspora, Kashmir, Jammu and Kashmir -India 01-January to Present

## REFERENCES

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- Dr Khalid Sultan  
Assistant professor Department of physics, Central University of Kashmir, Tulmulla, Ganderbal, India-191131  
☎ +91-9419031528  
Email ID-[ksbhat.phy@gmail.com](mailto:ksbhat.phy@gmail.com)
- Dr Vikas Kumar  
Assistant professor Department of physics, Banaras Hindu University, Varanasi, Uttar Pradesh, India  
☎ +91-9419458310  
Email ID- [vikasphysics@bhu.ac.in](mailto:vikasphysics@bhu.ac.in)
- Prof. M A Shah  
Head, Department of Physics  
National Institute of Technology Srinagar India  
☎ 9419018195  
Email ID- [Shah@nitsri.ac.in](mailto:Shah@nitsri.ac.in)
- \* Dr Mehrajud din Rather  
Masters dissertation supervisor  
Dr. D S Kothari postdoctoral fellow, Aligarh Muslim University, Aligarh, India  
☎ +91-9419009428  
Email ID- gen344@myamu.ac.