

**NAME :** PEER ZAHOOR AHMAD  
Designation: Principal  
Subject : Physics  
Area of Specialization: Astrophysics/ Quantum Dot cellular  
Automation  
College : Degree College Hajin  
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### Summary

- M Sc Physics ,PhD
- Teaching Experience : 25 Years
- Administrative Experience : 1 year

### Workshops, Seminars, Symposia and Conferences attended

1. Attended UGC sponsored General Orientation course from 20-10-1997 to 20-11-1997 organised by Academic Staff College university of Kashmir.
2. Attended UGC sponsored Refresher course in physics from 14-2-2006 to 4-3- 2006 organised by U G C Academic Staff College university of Jammu
3. Attended UGC sponsored Refresher course in computer applications from 14-11-2007 to 4-12- 2007 organised by Academic Staff College university of Kashmir.
4. Attended UGC sponsored Refresher course in computer applications from 4- 3-2009 to 27-03- 2009 organised by Academic Staff College university of Kashmir
5. Participated and made oral presentation in 8<sup>th</sup> J &k Science Congress held at university of Kahmir,Srinagar from 17<sup>th</sup> to 19<sup>th</sup> Sep 2012.
6. Participated and made oral presentation in 9<sup>th</sup> J &k Science Congress held at university of Kahmir, Srinagar from 1<sup>st</sup> to 3<sup>rd</sup> of Sep 2013.
7. Participated in the international Workshop on “Optimisation techniques & Softwares” at Dept of Statistics university of Kashmir from 19<sup>th</sup> to 23<sup>th</sup> of Oct 2013.
8. Completed Sixth Sense technology a workshop conducted by Technophilia Systems in association with Robotics & Computer Applications Institute of USA held at University of Kashmir on 24<sup>th</sup>,25<sup>th</sup> & 26<sup>th</sup> Feb 2014.
9. Participated and presented a paper titled Design & Implementation of QCA in 2day national Seminar on “Towards new horizons with interplay between physics & computer Science”held in Amarsing College Srinagar from 9<sup>th</sup> to 10<sup>th</sup> June 2014.
10. Participated and presented a paper entitled Design and Analysis of Odd and Even Parity Generators And Checkers Using quantum Dot Cellular Automata(11<sup>th</sup> -13<sup>th</sup> March) in 9<sup>th</sup> INDIACom IEEE;2015 2<sup>nd</sup> International Conference on “Computing for Sustainable Global Development” organised by BVICAM,New Delhi

11. Participated and presented a paper in International Conference on “Nanotechnology for Better living” jointly organised by NIT Srinagar & IIT Kanpur from 25th to 29th May 2016.

### **Research Publications (07)**

1. Peer Zahoor Ahmad, S.M.K Quadri, Firdous Ahmad, Ali Newaz Bahar, Ghulam Mohammad Wani, Shafiq Maqbool Tantary, “A novel reversible logic gate and its systematic approach to implement cost efficient arithmetic logic circuits using QCA” Data in Brief, 15, 701-708, 2017.
2. Md. Abdullah-Al-Shafi, Ali Newaz Bahar, Peer Zahoor Ahmad, Firdous Ahmad, Mohammad Maksud ur Rahman Bhuiyan, Kawser Ahmed, “Power analysis data set for QCA based multiplexer circuits” Data in Brief, 11, 593-596, 2017.
3. Peer Zahoor Ahmad, Syed Mohammad Khurshid Quadri, Shafiq Maqbool Tantray, Ghulam Mohammad Wani, Firdous Ahmad, Ali Newaz Bahar, “Design of novel QCA based half/full subtractors” Nanomaterials and energy, 6, 59-66, 2017.
4. Md. Abdullah-Al-Shafi, Ali Newaz Bahar, Md Ahsan Habib, Mohammad Maksudur Rahman Bhuiyan, Firdous Ahmad, Peer Zahoor Ahmad, Kawsar Ahmad, “Designing single layer counter in quantum dot with energy dissipation analysis” Ain Shams Engineering journal, 11, 593-596, 2017.
5. Firdous Ahmad, Gh. Mohiud Din Bhat, Peer Zahoor Ahmad, Hilal Ahmad Khan, and Refath Farooq, “Design of N-Bit Code Converter Using Quantum-Dot Cellular Automata(QCA)”, Advanced Science, Engineering and Medicine, 7, 1-8, 2015.
6. Firdous Ahmad, G.M Bhat and P.Z Ahmad “Novel Adder Circuits Based on Quantum-Dot Cellular Automata (QCA)”, Circuits and Systems, 5, 142-152. June 2014.
7. Wani Shah Jahan, Peer Zahoor Ahmad, Peer M A, Khan K A, Circuit Nanotechnology: “QCA Adder Gate Layout Designs”. IOSR Journal of Computer Engineering. Volume 16, 2, Ver. 1(Mar.-Apr. 2014).

### **Book Publications**

1. Introduction to Electrodynamics.

### **Patents**

Nil

### **Research Projects (Minor / Major Project)**

Nil

## Academic Qualifications

Examination Passed	Board/ University	Subjects	Year	Division / Grade / Merit
SSC	JKBOSE	Non-Medical	1980	ii
Higher Secondary	JKBOSE	Non-Medical	1982	ii
Bachelor's Degree(s)	Kashmir University	English ,Mathematics, Physics & Chemistry	1986	ii
Master's Degree(s) (M.A/M.Sc.)	Kashmir University	Physics	1992	Ist
NET/SLET	-----			
Other Diploma / Certificates etc.	-----			

## Research Experience

Research Stage	Title of Work /Thesis	University where the work was carried out	Year
M. Phil or equivalent	-----		
Ph.D.	Building Quantum Dot Cellular Automata Models, Implementation techniques and related applications in digital logic design	Kashmir University	2018
D.Sc/D.Litt.	-----		
Training (Please specify)	-----		

## Teaching Experience

Courses Taught	Name of the University/ College/Institution	Duration
iv) U.G. (B.A./B.Sc. etc.) (B.A./B.Sc. etc. Hons.)	1, Degree college Boys Baramulla 2, Degree college Boys Bemina 3, Degree college Boys Sopore 4, A S College, Srinagar 5, Degree College Kupwara	July1997 to Dec 2000 Dec 2000 to Nov2010 Nov2010 to June 2017 June 2017 to 6 <sup>th</sup> of May 2022 7 <sup>th</sup> of May 2022.....
v) P.G. (M.A./M.Sc.,etc.)	-----	

vii) Any other ( e.g Women Study, Skill Development , Add on courses, Coaching (JUET, CET) etc	-----	
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**Extension Work / Community Service :**

Worked with a non-profit organization to impart coaching for admission in professional courses