




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	PRIYANKA	Last Name	VERMA	Photograph
Designation		ASSISTANT PROFESSOR				
Address		PHYSICS DEPARTMENT , SHIVAJI COLLEGE				
Office Phone No.						
Residence						
Mobile		9873180799				
Email		sweetpriya34@gmail.com				
Web-Page						
Educational Qualifications						
Degree		University/Institute			Year	
Ph.D.		UNIVERSITY OF DELHI (DEPT. OF PHYSICS & ASTROPHYSICS, NORTH CAMPUS)			2013	
M.Phil./M.Tech.		-				
PG		UNIVERSITY OF DELHI (RAMJAS COLLEGE)			2008	
UG		UNIVERSITY OF DELHI (RAMJAS COLLEGE)			2006	
Any Other Qualification						
Career Profile						
<ul style="list-style-type: none"> Worked as Physics teacher (11th class) for 3 months in “Sachdeva Public School” FPblock, Maurya Enclave, Pitampura, Delhi-110088 from 01-08-2008 to 31-10-2008. Worked as Assistant Professor (Guest) in A.R.S.D. (Atma Ram Sanatan Dharma) College, South Campus, Dhaula Kuan, New Delhi-110021 from January 2012 to April 2012. Worked as Assistant Professor (Ad-hoc) in Motilal Nehru College, South Campus, Dhaula Kuan, New Delhi-110021, from July 2013 to February 2015. Worked as Assistant Professor (Ad-hoc) in Lady Irwin College, Sikandra Road, New Delhi 110001 from July 2015 to November 2015. Worked as guest in Lady Irwin College DU and ANDC DU from January 2016 to April 2016. Currently working as Assistant Professor (Adhoc) in Shivaji College, DU from 2016 onwards. 						

Administrative Assignments
<ul style="list-style-type: none"> • Member of organizing committee in the workshop named “Pratibimb” organized by Physics Dept. Shivaji College held on 31st January 2017. • Member of organizing committee in the workshop “Spectrum-2018” organized on 12th Feb 2018 in Shivaji College. • Member of organizing committee in the Annual Fest “Invenio” organized on 30th – 31st March 2017 in Shivaji College. • Member of organizing committee in the seminar “Semiconductor Opto-electronic Devices: A Perspective” organized on 27th Oct 2017 in Shivaji College. • Member of organizing committee in the Annual Fest “Tech-Invenio” organized on 19th – 20th March 2018 in Shivaji College. • Member of organizing committee in the Physics Society event “Invenio” organized on 30th September 2019 in Shivaji College.
Areas of Interest/Specialisation
<p>THEORETICAL CONDENSED MATTER PHYSICS, COMPUTATIONAL PHYSICS & QUANTUM OPTICS, COLD ATOMS, CHAOS IN BEC</p>
Subjects Taught
<p>Mathematical Physics (I, II, III), Mechanics, C/C++/Scilab/Microprocessors, Solid State Physics, EMT/Electricity & Magnetism, Waves & Optics, Thermal & Statistical Mechanics, Nuclear & Particle Physics, Applied Optics</p>
Innovation Project/Research Projects (Major Grants/Research Collaboration)
Publications Profile (Research Papers/Books)
<ul style="list-style-type: none"> • Optomechanical Effects in Superfluid Properties of BEC in an Optical Lattice. Priyanka Verma, A. B. Bhattacharjee, and Man Mohan., Cent. Europ Jour. Physics 10, 335-341 (19-11-2012). • Optomechanical Effects in self-organization of a Bose-Einstein Condensate in an Optical Cavity. Priyanka Verma, Aranya B. Bhattacharjee and Man Mohan., Canadian Journal of Physics 90, 1223–1231 (15-08-2012). • Oscillations in a Parametrically Excited Bose-Einstein Condensate in a Combined Harmonic and Optical Lattice Trap. Priyanka Verma, Aranya B. Bhattacharjee and Man Mohan., Cent. Europ Jour. Physics 10, 335-341 (24-02-2012). • Non Degenerate Dual Atomic Parametric Amplifier: Entangled Atomic Fields. Tarun Kumar, Aranya B. Bhattacharjee, Priyanka Verma, Narine Gevorgyan and Man Mohan., Cent.Europ Jour. Physics 10, 132-139 (04-11-2012).

- Entangling Two Bose Einstein Condensates in a Double Cavity System. Tarun Kumar, Aranya B. Bhattacharjee, Priyanka Verma and Man Mohan., Journal of Physics B At. Mol. Opt. Phys. 44, 065302, (25-02-2011).
- Chaos in Dynamical Bose-Einstein Condensate. Priyanka Verma, A. B. Bhattacharjee and Man Mohan., Journal of Chemical, Biological and Physical Sciences, Section-C, Vol. 6, No. 2 (504-514), (10-04-2016).
- Chaos in BEC trapped in tilted optical superlattice potential with attractive interaction Journal of Physics : Conference Series 350 (14-03-2012) 012003 doi:10.1088/17426596/350/012003. Priyanka Verma, Aranya B. Bhattacharjee and Man Mohan

Conference/Seminar/Faculty Development Programme/Workshop

- International DAE-BRNS Symposium on Atomic, Molecular and Optical Physics, Inter University Accelerator Centre (IUAC), New Delhi, 10th – 13th February **2009**.
- International School on Cold ions and atoms, IACS, Kolkata, 6th – 16th January, **2010**.
- “Workshop on Information Literacy and Competency”, Conference Centre, Opposite Department of Botany, University of Delhi (North Campus), Delhi-110007. 23rd February **2010**.
- Introductory Workshop I (workshop on computational tools used in scientific research), School of Physical Sciences, Jawaharlal Nehru University, Delhi, India, 21st February, **2010**.
- Introductory Workshop II (workshop on computational tools used in scientific research) DSK Lecture Hall, Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India, 17th July, **2010**.
- International Conference on Research Frontiers in Ultra-Cold Atomic & Molecular Gases, ICTP (Goa), 10th–14th January, **2011**.
- 3rd International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with applications (CDAMOP 2011), Dept. of Physics & Astrophysics (University of Delhi, India), 14th–16th Dec., **2011**.
- International Conference on Nanomaterials & Nanotechnology, Conference Centre at University of Delhi, India. 18th -21st Dec., **2011**.
- International DAE-BRNS Symposium on Atomic, Molecular and Optical Physics 2012, Indian Institute of Science Education and Research (IISER) Kolkata, , 14th – 17th December **2012**.
- International advanced workshop on Non-Equilibrium Bosons: From driven condensates to Non-linear optics, ICTP (International Centre for Theoretical Physics), Trieste, Italy. 19th - 23rd August **2013**.
- Seminar on “Atomic, Molecular and Optical Physics (AMOP-2013)”, D. S. Kothari Lecture Hall, Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India. 30th September **2013**.
- Course on “Digital Literacy for Teachers” (under UKIERI – UK India Education and Research Initiative) at COL (Campus of Open Learning), University of Delhi, India. 18th – 22nd November **2013**.
- International seminar on current trends in Quantum gases, BEC and solitons at Department of Physics, Panjab University, Chandigarh from 3rd March 2014 to 6th March **2014**.
- National workshop on analysis, differential equations & applications at Department of Mathematics & Statistics, Mohanlal Sukhadia University, Udaipur (Rajasthan) from 25th - 27th Feb **2016**.
- Faculty development programme (FDP) on Research Methodology and Data Analysis Using

SPSS and AMOS at Satyawati College (Evening), University of Delhi, Ashok vihar, Phase III from 15th-20th March, **2017**.

- Seminar on Recent Advances In Atomic & Molecular Physics held at Deen Dayal Upadhyay College on 19th September **2017**.
- International Conference on “Quantum Dynamics of Disordered Interacting Systems” ICTP (International Centre for Theoretical Physics), Trieste, Italy. 11th – 15th June **2018**.
- Virtual Symposium on “International Day of Light (IDL-2020)” organized by IEEE Photonics society and SPIE student chapters, Department of Physics, IIT Guwahati on 16th May **2020**.
- National Webinar Series on “Experimental & Computational Tools For Materials Research (ECTMR) organized by Discipline of Natural Sciences, PDPM IITDM Jabalpur and Department of Physics, Central University of Rajasthan from 1st June 2020 – 8th June **2020**.
- International Webinar on “An Introduction to Robust control by Q-CTRL” organized by “Q-Control company, Australia”, on 18th June **2020**.

PAPER PRESENTATION

- In National workshop on analysis, differential equations & applications at Department of Mathematics & Statistics, Mohanlal Sukhadia Univeristy, Udaipur (Rajasthan) from 25th - 27th Feb **2016**.

POSTER PRESENTATION IN

- In International conference OPTICS & its applications 2011, Yerevan State University, Armenia 5th -9th Sep. **2011**.
- In International conference CDAMOP 2011, Department of Physics & Astrophysics (University of Delhi, India), 14th-16th Dec., **2011**.
- Advanced workshop on Non-Equilibrium Bosons: From driven condensates to Non-linear optics, ICTP (International Centre for Theoretical Physics), Trieste, Italy. 19th -23rd August **2013**.
- International seminar on current trends in Quantum gases, BEC and solitons at Department of Physics, Panjab University, Chandigarh from 3rd March 2014 to 6th March **2014**.
- International Conference on “Quantum Dynamics of Disordered Interacting Systems” ICTP (International Centre for Theoretical Physics), Trieste, Italy. 11th – 15th June **2018**.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

Awards and Distinctions

Cleared UGC-Junior Research Fellowship in June 2009
Cleared NET-LS in 2009 December

Memberships

Other Academic Activities

- Member of organizing committee in the International conference CDAMOP 2011 held at Department of Physics & Astrophysics (University of Delhi, India), 14th -16th December 2011.
- Coordinating for the content development of <http://vaisesika.org.in/index.html> from 2013.
- Member of organizing committee in the International conference CDAMOP 2015 held at Department of Physics & Astrophysics (University of Delhi, India), 11th -14th March 2015.
- Assisted in the content development with Dr. Aranya B. Bhattacharjee for Solid State Physics subject in e-pg pathshala.com initiative of Govt. of India (MHRD).
- Worked as a Resource person in the DST (gov. of india) INSPIRE CAMP organized by Shivaji College, DU, 14th -18th December 2016.

Cultural/Extracurricular Activities

Women Cricket team member in Shivaji College on sports day held in 2017.

Participated and performed in the skit of "Ignited Week" event (dramatics) held in Department of Physics & Astrophysics, University of Delhi, India, February 2010.

Class representative, M.Sc. Physics 2nd year in 2008.

Participation in "Physics Fest (singing competition)" B.Sc. (Honors) II year 2005, Ramjas College, University of Delhi, Delhi-110007, India.

Participated and won in many school level, state level, national level competitions (speech, debate, poem recitation, science (math) quiz, cultural activities, dance etc) before 2003.



Signature of Faculty Member