



Shivaji College Faculty Details Proforma

Title	Dr.	First Name	PRIYANKA	Last Name	VERMA	Photograph
						-
Designation		ASSISTANT PROFESSOR				
Address		PHYSICS DI				
Office Phone No.						
Reside	ence					
Mobile		9873180799				
Email		sweetpriya34	@gmail.com			
Web-Pa	age					
Educa						
Degree		University/Institute				Year
Ph.D.		UNIVERSIT ASTROPHY	2013			
M.Phil	./M.Tech.	-				
PG		UNIVERSITY OF DELHI (RAMJAS COLLEGE)			2008	
UG		UNIVERSIT	Y OF DELHI	(RAMJAS C	COLLEGE)	2006
Any O Qualifi	ther ication				Delhi Institute of , India.	2020
		2. "Add-on course on Legal Awareness" from 'Placement Cell of Shivaji College, University of Delhi, India' in collaboration with 'West District Legal Services20 Authority, New Delhi'.				

-	r Profile Worked as Physics teacher (11th class) for 2 months in "Sachdaya Public School" EPhloa
•	Worked as Physics teacher (11th class) for 3 months in "Sachdeva Public School" FPbloc 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) Colleg
	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, Dhau
•	Kuan, New Delhi-110021, from July 2013 to February 2015. Worked as Assistant Professor (Ad-hoc) in Lady Irwin College, Sikandra Road, Ne
•	Delhi110001 from July 2015 to November 2015.
•	Worked as guest in Lady Irwin College DU and ANDC DU from January 2016 to Ap
	2016.
•	Currently working as Assistant Professor (Adhoc) in Shivaji College, DU from 20
	onwards.
dm	inistrative Assignments
•	Member of organizing committee in the workshop named "Pratibimb" organized by Physic Dept. Shivaji College held on 31 st January 2017.
•	Member of organizing committee in the workshop "Spectrum-2018" organized on 12 th F 2018 in Shivaji College.
•	Member of organizing committee in the Annual Fest "Invenio" organized on $30^{th} - 3$ March 2017 in Shivaji College.
•	Member of organizing committee in the seminar "Semiconductor Opto-electronic Device A Perspective" organized on 27 th Oct 2017 in Shivaji College.
•	Member of organizing committee in the Annual Fest "Tech-Invenio" organized on 19 th 20 th March 2018 in Shivaji College.
•	Member of organizing committee in the Physics Society event "Invenio" organized on 3 September 2019 in Shivaji College.
•	Committee Member of "Research & Innovation Cell" of Shivaji College, University of Delhi for the academic year 2021-22.
•	Committee Member of "Cultural Committee" of Shivaji College, University of Delhi fo the academic year 2021-22.
•	Committee Member of "Magazine Committee" of Shivaji College, University of Delhi for the academic year 2021-22.
•	Member of organizing committee for the screening & discussion of film by "SPIC
	MACAY IN COLLABORATION WITH SHIVAJI COLLEGE" on 27 th August 2021.
•	Member of organizing committee in the National Level Webinar on "Art of Academic Writing : A Systematic Americach" argonized by "Passarah & Imposition Coll of Shiveii
	Writing : A Systematic Approach" organized by "Research & Innovation Cell of Shivaji College, University of Delhi, India" on 4 ^h September 2021.
	conege, oniversity of Denn, india on 4 September 2021.

Subjects Taught

Mathematical Physics (I, II, III), Mechanics, C/C++/Scilab/Microprocessors, Solid State Physics, EMT/Electricity & Magnestism, Waves & Optics, Thermal & Statistical Mechanics, Nuclear & Particle Physics, Applied Optics

Innovation Project/Research Projects (Major Grants/Research Collaboration)

Publications Profile (Research Papers/Books)

- Entangling Two Bose Einstein Condensates in a Double Cavity System. Tarun Kumar, Aranya B. Bhattacherjee, **Priyanka Verma** and Man Mohan., Journal of Physics B At. Mol.Opt. Phys.44, 065302, (25-02-2011).
- Optomechanical Effects in Superfluid Properties of BEC in an Optical Lattice.
 Priyanka Verma, A. B. Bhattacherjee, 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. Bhattacherjee 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. Bhattacherjee 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. Bhattacherjee, **Priyanka Verma**, Narine Gevorgyan and Man Mohan., Cent.Europ Jour. Physics 10, 132-139 (04-11-2012).
- Chaos in BEC trapped in tilted optical superlattice potential with attractive interaction Priyanka Verma, Aranya B. Bhattacherjee and Man Mohan., Journal of Physics : Conference Series 350 (14-03-2012) 012003 doi:10.1088/17426596/350/012003.
- Chaos in Dynamical Bose-Einstein Condensate.
 Priyanka Verma, A. B. Bhattacherjee and Man Mohan., Journal of Chemical, Biological and Physical Sciences, Section-C, Vol. 6, No. 2 (504-514), (10-04-2016).
- The Matrix formulations and Algebraic equations using Scilab. Ravindra Singh, A. K. Shukla, S.S.Gaur, **Priyanka Verma**, Polly Biswas and Omwati Rana., National Journal of Environment and Scientific Research (NJESR), Vol. 2, Issue 7, (22-7-2021).
- Comparison of Differential Equation by ordinary method and Euler's method using Scilab.
 R. Singh, A. K. Shukla, S.S.Gaur, **Priyanka Verma**, P Biswas and O. Rana., Vidyabharati International Interdisciplinary Research Journal (Special Issue), August **2021** Part-II, 126-128, ISSN 2319-4979

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 & Nanotechnogy, 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, $, 14^{th} - 17^{th}$ December 2012. International advanced workshop on Non-Equillibrium Bosons: From driven conensates to Non-linear optics, ICTP (International Centre for Theoretical Physics), Trieste, Italy. 19th -23rd August **2013**. Seminar on "Atomic, Molecular an 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 IIITDM 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**.
- National Level Workshop on "Various Aspects of Research Funding, Academic Writing and Publication Ethics" organized by "Research Cell of Shivaji College, University of Delhi, India" on 30th January **2021**.
- National Level Webinar on "Art of Academic Writing : A Systematic Approach" organized by "Research & Innovation Cell of Shivaji College, University of Delhi, India" on 4^h September 2021.

PAPER PRESENTATION

 In National workshop on analysis, differential equations & applications at Department of Mathematics & Statistics, Mohanlal Sukhadia University, 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 <u>http://vaisesika.org.in/index.html</u> 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. Bhattacherjee 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.

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

Particiapted 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