




## Faculty Details proforma for College Web-site



Title	Dr.	First Name	Rachna	Last Name	Joshi	Photograph
Designation		Associate Professor				
Address		Acharya Narendra Dev College, (University of Delhi), Gobindpuri, Kalkaji, New Delhi				
Phone No Office		--				
Email/ Web-Page		rachnajoshi@andc.du.ac.in				
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<b>Educational Qualifications</b>						
Degree		Institution				Year
B. Sc (H) Physics		Maitreyi College, University of Delhi				1996
M. Sc. Physics Specialization ELECTRONICS		Hindu College, University of Delhi				1998
Ph. D in Physics		Department of Physics and Astrophysics, University of Delhi				2002
<b>Career Profile</b>						
<u>Name of Institution</u>		<u>Position held</u>		<u>From</u>	<u>To</u>	
Acharya Narendra Dev college, D. U.		Lecturer		06.08.1998	30.04.1999	
Dyal Singh College, D. U.		Lecturer		18.08.2000	30.04.2003	
Acharya Narendra Dev college, D. U.		Lecturer		23.07.2003	12.11.2006	
Acharya Narendra Dev college, D. U.		Assistant Professor		14.11.2006	Feb 2012	
Acharya Narendra Dev college, D. U.		Associate Professor		Feb 2012	Till date	
<b>Administrative Assignments</b>						
<u>Teacher in Charge, Department of Physics, ANDC (2014-2016)</u>						
<u>Convener Garden Committee (2012 - 2014)</u>						
Member Alumni Committee and Sports committee (2018-2020)						
Member Alumni Committee and Eco-club (2016-2018)						
Member Canteen Committee (2012 - 2014)						
Member Sports Committee (2010 - 2012)						
Member Editorial Committee (2008 - 2010)						
Member SPIC MACAY (2008 - 2010)						
Member of SASHAKT (2005 – 2007)						
<b>Areas of Interest / Specialization</b>						

<p>Electronics  Atoms in Intense laser fields  Multiphoton processes in atoms</p>
<p>Subjects Taught</p>
<p>Digital Electronics  Communication Electronics  Mechanics</p>
<p>Research Guidance</p>
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<p>Publications Profile</p>
<p><b><u>List of Publications:</u></b></p> <p><b><u>International Journals</u></b></p> <ol style="list-style-type: none"> <li>Two-photon transitions to Rydberg states of hydrogen, <u>Rachna Joshi</u>, Physics, Letters A, Vol. 361, 352 (2007).</li> <li>Stabilization of Hydrogen atom in intense laser fields, <u>R. Kundliya</u> and Man Mohan, Phys. Lett. A, Vol 291, 22, (2001).</li> <li>Two-photon ionization using elliptically polarized light, <u>R. Kundliya</u>, K. Batra and Man Mohan, Phy. Rev. A, 64, 043404, (2001).</li> <li>Multiphoton ionization of atom using pseudostate summation technique, <u>R. Kundliya</u>, K. Batra and Man Mohan, J. Phys. B, 34, 4083, (2001).</li> <li>The two-photon process in an atom using the pseudostate summation technique, <u>R. Kundliya</u>, V. Prasad and Man Mohan, J. Phys. B, 33, 5263, (2000).</li> <li>Photoionization of ground state of NiXIX using a Relativistic Breit Pauli approximation, Man Mohan, <u>R. Kundliya</u> and K Baliyan, Physica Scripta, 62, 307, (2000).</li> </ol> <p><b><u>National Journals</u></b></p> <ol style="list-style-type: none"> <li>Atom in a femtosecond bichromatic laser field, K. Batra, <u>R. Kundliya</u> and Man Mohan, Pramana J. Physics, Vol. 62, No. 1, p31, (2004).</li> <li>Two-photon excitation using <math>L^2</math> technique, <u>R. Kundliya</u>, V. Prasad and Man Mohan, Indian Journal of Physics Part B, 76(4), 535, (2002).</li> <li>Two-photon ionization using pseudostate summation technique, <u>R. Kundliya</u>, K. Batra, and Man Mohan, Indian Journal of Physics Part B, 76(4), 563, (2002).</li> </ol> <p><b><u>Chapters in Books</u></b></p> <ol style="list-style-type: none"> <li>Multiphoton processes in laser fields, Man Mohan and <u>R. Kundliya</u>, In, "Current Developments in Atomic, Molecular and Chemical Physics with Applications", (2002), Kluwer Academic/ Plenum Press, NY, p31.</li> <li>High Harmonic Generation in Hydrogen Atom in Intense Laser Field, <u>Rachna Joshi</u>, Pawan Kumar and Man Mohan, Laser and Bose Einstein Condensation with Applications, p-295, Narosa Publications, 2009.</li> </ol> <p><b><u>Papers Presented in International Conferences:</u></b></p> <ol style="list-style-type: none"> <li>Study of polarization effect in two quantum photo ionization, <u>R. Kundliya</u> and Man Mohan, In International</li> </ol>

<p>Conference on “Current Developments in Atomic, Molecular and Chemical Physics with Applications”, (2002), University of Delhi, Delhi.</p> <p>2. Multiphoton excitation and ionization of atom using <math>L^2</math> technique, <u>Rachna Joshi</u> and Man Mohan, In International Conference on “Current Developments in Atomic, Molecular and Optical Physics with Applications”, (March 2006), University of Delhi, Delhi.</p>
Conference / Presentations /Workshops
<p><b><u>Contribution in Organizing conferences:</u></b></p> <p>1. Member, Organizing Committee, International Conference on “Current Developments in Atomic, Molecular and Chemical Physics with Applications”, 20-22 March 2002, Department of Physics and Astrophysics, University of Delhi, Delhi.</p> <p>2. Member, Scientific Committee, International Conference on “Current Developments in Atomic, Molecular and Optical Physics with Applications”, March 2006, Department of Physics and Astrophysics, University of Delhi, Delhi.</p>
Research Projects (Major Grants/Research Collaboration)
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Awards and Distinctions
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Association With Professional Bodies
Life member, Indian Association of Physics teachers, OMNO: 7196
Other Activities

**Rachna Joshi**

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC and PDF file to be attached as a link on your faculty page.