




Faculty Details proforma for College Web-site



Title	Dr.	First Name	Ranjeet	Last Name	Singh	Photograph
Designation	Associate Professor					
Address	(Office) Department of Physics Acharya Narendra Dev College (University of Delhi) Govind Puri, Kalkaji, New Delhi-110019 (Residence) RZF - 1 / 14 – B, Street No. 5, Mahavir Enclave, New Delhi 110045					
Phone No Office	9871410908					
Email/ Web-Page	ranjeetsingh@andc.du.ac.in					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Indian Institute of technology, Delhi				2011	
M.Sc.	Indian Institute of technology, Delhi				2004	
B. Sc. (H) Physics	University of Delhi,				2002	
Career Profile						
Teaching Experience From 16-07-2005 to till date and continuing at Physics Department, Acharya Narendra Dev College, University of Delhi, Govind Puri, Kalkaji New Delhi-110019.						
Administrative Assignments						
Administrative and Corporate Assignments						
1. Member, College Development Committee (2020 – 2021)						
2. Member, Sports Committee (2020 – 2021)						
3. Teacher Incharge (TIC)-Physical Science with Electronics (2018 – 2020)						
4. Member, Time Table Committee as TIC (2018 – 2020)						
5. Member, Workload Committee (2018 – 2020)						
6. Member, Library Committee (2018 – 2020)						

7. Member, Sports Committee (2016 - 2018)
8. Convener, Cultural Events Management Committee, Leiothrixx 2018 (2017 - 2018)
9. Member, Cultural Events Management Committee (2016 - 2017)
10. Member, Social outreach programs committee (NSS) (2014 - 2016)
11. Member, Women Students Affair Committee-Sashakt (2014 - 2016)
12. Teacher Incharge (TIC)-Physics (2012 - 2014)
13. Member, Time Table Committee (2012 - 2014)
14. Member, Workload Committee (2012 - 2014)
15. Member, Library Committee (2012 - 2014)
16. Member, Canteen Committee (2010 - 2012)
17. Member, College Development Committee (2009 - 2010)
18. Member, Examination Committee (2008 - 2010)
19. Member, Assets Write off Committee (2007 - 2009)
20. Incharge of Admission Information Centre (2006-2007)
21. Member, Sports Committee (2006 - 2008)
22. Member, Environment Society (2005-2007)

Areas of Interest / Specialization

Academic and research interest is on the subjects like Optics, Plasma Physics and High-Power Laser Plasma Interaction, Developing and improving Online and Offline teaching-learning methodology, research activity and updating subject content regularly to create an interactive academic environment.

Subjects Taught

Courses taught and Subject details: B.Sc. (H) Physics, B.Sc. (Prog) Physical Science, Subjects-Waves and Optics, Modern optics and Optoelectronics, Modern Physics and Quantum Mechanics, Mechanics, Electricity and Magnetism, Atomic and Molecular Physics, Thermal Physics and Statistical Mechanics in Online and Offline Teaching Methodology for Theory and Practical.

Online and offline teaching using google meet and classroom. Use of online virtual simulation lab for practical Laboratory class and online meeting tools for the theory classes along with the

reference books prescribed in the syllabus.
Research Guidance
Publications Profile
<p>Publication list (International Journals)</p> <ol style="list-style-type: none"> 1. Magesh Kumar K. K., Ranjeet Singh, and V. K. Tripathi, “Raman shifted third harmonic generation of upper hybrid radiation in a plasma”, Phys. Plasmas 19, 112116 (2012). 2. Ranjeet Singh and V. K. Tripathi, “Stimulated Raman scattering coupled to decay instability in a plasma channel”, Phys. Plasmas 19, 012109 (2012). 3. Ranjeet Singh and V. K. Tripathi, “Filamentation of laser in an inhomogeneous plasma”, Phys. Plasmas 18, 022111 (2011). 4. Ranjeet Singh and V. K. Tripathi, “Raman upshifted third harmonic generation of a laser in a plasma”, Phys. Plasmas 17, 112103 (2010). 5. Ranjeet Singh and V. K. Tripathi, “Brillouin shifted third harmonic generation of a laser in a plasma”, J. Appl. Phys. 107, 113308 (2010). 6. Ranjeet Singh and V. K. Tripathi, “Filamentation of laser in a magnetized plasma under relativistic and ponderomotive nonlinearities”, Phys. Plasmas 16, 052108 (2009).
Conference / Presentations /Workshops
<p>Refresher Course, Orientation Courses, Workshops, Faculty Development Programmes attended</p> <ol style="list-style-type: none"> 1. Faculty Development Programme on ‘E-Content Development & Online Teaching’, Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, from February 07, 2021 to February 14, 2021. 2. Two Week Faculty Development Programme on ‘Blended Learning: Alternative Dimensions’, Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, from January 12, 2021 to January 29, 2021. 3. One Week Workshop on ‘Research Methodology’, UGC Human Resource Development

Centre Jamia Millia Islamia, New Delhi, from December 17, 2020 to December 23, 2020.

4. UGC Sponsored 2-weeks Refresher Course in ‘Indian Education System and Skill Development (IDC)’, Centre for Professional Development in Higher Education, University of Delhi, from January 03, 2020 to January 16, 2020.
5. DST-SERB School-2014 on ‘High Intensity Laser Plasma Interaction: Theory and Simulations’, Indian Institute of Technology Delhi, from May 05, 2014 to May 23, 2014.
6. UGC Sponsored Refresher Course in ‘Physics & Electronics’, Centre for Professional Development in Higher Education, University of Delhi, from September 20, 2012 to October 11, 2012.
7. UGC Sponsored 4-weeks Orientation Course at Centre for Professional Development in Higher Education, University of Delhi, from May 06, 2008 to June 03, 2008.

Participation in Conferences, Seminars & Workshops

1. Workshop at Acharya Narendra Dev College, University of Delhi on ‘LaTeX and HTML’, August 27, 2016.
2. UGC Sponsored National Seminar at Maharaja Agrasen College, University of Delhi on ‘Basic Electromagnetic Theory, RF/Microwave Technologies and Applications’, March 10 - 11, 2015.
3. QIP/CEP Topical Conference at Indian Institute of Technology Delhi on ‘Laser Driven Charged Particle Acceleration and Applications’, April 5-7, 2013.
4. Topical Workshop at Indian Institute of Technology Delhi on ‘Terahertz Radiation Generation & Applications’, March 26-27, 2011.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Association With Professional Bodies

Other Activities

Dr. Ranjeet Singh
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.