

<b>Title</b>	Dr.	<b>First Name</b>	Ritika	<b>Last Name</b>	Nagpal	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Address (Campus)</b>						
<b>(Residence)</b>	6648-3rd Floor, East Rohtash Nagar, Shahdara, Delhi-110032					
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<b>Educational Qualifications</b>	Ph.D.					
<b>Degree</b>	<b>Institution</b>			<b>Year</b>		
<b>Ph.D.</b>	<b>NSUT (formerly NSIT, University of Delhi)</b>			<b>2019</b>		
<b>M.Sc.</b>	<b>Hansraj College, DU</b>			<b>2014</b>		
<b>B.Sc.</b>	<b>Vivekananda College, DU</b>			<b>2012</b>		
<b>Career Profile</b>						
<b>Designation</b>	Assistant Professor			<b>Duration</b> 24/08/2019 to Present		
<b>Administrative Assignments:</b>						
<b>Subjects Taught:</b> Algebra, Complex Analysis, Biomathematics, GE Math, Discrete Mathematics, CAS, Analytic Geometry and Applied Algebra						
<b>Research Guidance:</b>						

**Publications profile:**

- **Ritika Nagpal**, Shibesh Kumar Jas Pacif, Cosmological aspects of  $f(R, T)$  gravity in a simple model with a parametrization of  $q$ , Eur .Phys. J. Plus 136 (8) 875 (2021) (Impact factor: 3.911 )
- J. K. Singh, **Ritika Nagpal**, FLRW cosmology with EDSFD parametrization, Eur. Phys. J. C 80 (4), 295 (2020) (Impact factor: 5.172) ISSN/ISBN 1434-6044(P) 1434-6052(O)
- **Ritika Nagpal**, J. K. Singh, A Beesham, Hamid Shabani, Cosmological aspects of a hyperbolic solution in  $f(R, T)$  gravity, Annals Phys. 405, 234-255 (2019) (Impact factor: 2.267) ISSN/ISBN 0003-4916
- **Ritika Nagpal**, S. K. J. Pacif, J. K. Singh, K. Bamba, A Beesham, Analysis with observational constraints in  $\Lambda$ -cosmology in  $f(R, T)$  gravity, Eur. Phys. J. C 78 (11) 946 (2018) (Impact factor: 5.172) ISSN/ISBN 1434-6044(P) 1434-6052(O)
- J. K. Singh, Kazuharu Bamba, **Ritika Nagpal**, S. K. J. Pacif, Bouncing cosmology in  $f(R, T)$  gravity, Phys. Rev. D 97 123536 (2018) (Impact factor: 4.506) ISSN/ISBN 2470-0010 (P) 2470-0029(O)
- **Ritika Nagpal**, J.K. Singh, S. Aygun, FLRW cosmological models with quark and strange quark matters in  $f(R, T)$  gravity, Astrophys. Space Sci. 363 (6) (2018) (Impact factor: 1.622) ISSN/ISBN 0004-640X(P) 1572-946X(O)
- J. K. Singh, **Ritika Nagpal**, S. K. J. Pacif, Statefinder diagnostic for modified Chaplygin gas cosmology in  $f(R, T)$  gravity with particle creation, Int. J. Geom. Meth. Mod. Phys. 15 (3), 1850049 (2017) (Impact factor: 1.068) ISSN/ISBN 0219-8878 (P) 1793-6977(O)

**Conference organization/Presentations (in the last three years):**

- Attended a two-day **Indo-South Africa** workshop on “**Gravitation and Cosmology**”, held at **Centre for Theoretical Physics, Jamia Millia Islamia**, during December 3-4, 2018.
- Participated in an International Conference “**International Conference on Recent Advances in Pure and Applied Mathematics**” held in Department of Mathematics, **Delhi Technological University** during October 23-25, 2018.

- Presented a poster in an “**Indian Association for General Relativity and Gravitation (IAGRG)**”, organized by Dept. of Physics, BITS-Pilani, Hyderabad Campus, during January 3-5, 2019.
- Presented a paper entitled “**Study on FLRW cosmology with observational interpretation using a specific form of energy density of scalar field**” in an international conference on Gravitation, Cosmology & Mathematical physics organized at the Department of Mathematics, **GLA University, Mathura**, during April 4-7, 2019.
- Participated in a three-week webinar entitled “**Introduction to computer algebra system: Maxima**” held by “**Student learning centre IQAC, Hansraj College, University of Delhi**”, during June 27, 2020 – July 18, 2020.
- Participated in a one-week online workshop entitled “**Data Manipulation and Visualization through Statistical Software R**” organised by “**Zakir Hussain College, University of Delhi**” during July 27, 2020 – July 31, 2020
- Participated in a one-week Faculty Development Program entitled “**Microsoft Tools for Creating Effective Teaching and learning environment**” organised by “**Vivekananda College, University of Delhi**” during June 7, 2021 – July 13, 2021.
- Participated in a one-week Faculty Development Program entitled “**Mathematical Analysis and its Applications**” organised by “**Vivekananda College, University of Delhi**” during July 26, 2021 – July 31, 2021.

#### **Research Projects (Major Grants/Research Collaboration)**

#### **Awards and Distinctions:**

- Qualified NET exam (Mathematical Sciences) in December 2015, with **AIR 28**
- Working as a **Teaching cum Research Fellow (TRF)** at Netaji Subhas University of Technology, (Formerly NSIT, Faculty of Technology, University of Delhi), from July 20, 2015, to 31<sup>st</sup> May 2019
- Received awards for having secured **Highest Marks** in **Vivekanand College** in B.Sc. Mathematics (1st, 2nd, 3rd year)
- Received a cash prize of **Rs 10,000/-** release of grant-in-aid for **Meritorious Students** studying in Government funded colleges during the academic year 2012-2013
- Received a cash prize of **Rs 1450/-** being “**The Geetika Nagpal Khurana Scholarship Award**” for having secured **Highest Marks** in B.Sc. 2nd year, for

the academic year 2011-2012

**Research Collaboration with Dr. Shibesh Kumar Jas Pacif, Centre for Cosmology and Science Popularization, SGT University, Gurugram**

**Other Activities**