

## Dr Leetika



Assistant Professor  
Mathematics  
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### Areas of Interest

- Geometry of Numbers
- Coding Theory

### Educational details

Degree	Year	University	Percentage	Medals/ Positions
PhD	2014	Panjab University		
MSc(Mathematics)	2008	Panjab University	85.7%	2 <sup>nd</sup> Position in University
BA	2006	Panjabi University	73.5%	
12 <sup>th</sup>	2003	P.S.E.B	83%	
10 <sup>th</sup>	2001	P.S.E.B	92.5%	1 <sup>st</sup> in city and 3 <sup>rd</sup> in Distt.

### Professional Details

Designation	From	To	Organization
Assistant Professor	July 2017	Present	MCM DAV College for Women, Chandigarh
Assistant Professor	July 2016	April 2017	MCM DAV College for Women, Chandigarh
Assistant Professor	September 2013	April 2016	UIET, Panjab University
Research Fellow/Scholar	March 2010	March 2014	Department of Mathematics, Panjab University
Lecturer	July 2009	March 2010	Post Graduate Govt. College for Girls, Sector 42, Chandigarh
Lecturer	August 2008	November 2008	D.A.V. College, Chandigarh

### Awards & Recognitions

Award	Institute	Year
Best Paper Award	'78th Annual Conference' of the 'Indian Mathematical Society'	2013

Research Publications				
Title	Journal	Refereed	Date and Year of Publication	Online Link
Existence of cyclic self-orthogonal Codes: A note on a result of Vere Pless	Advances in Mathematics of Communication (AMC)	Yes	2012	<a href="http://aimsciences.org/article/doi/10.3934/amc.2012.6.499">aimsciences.org/article/doi/10.3934/amc.2012.6.499</a>
On a question of Uri Shapira and Barak Weiss	Indian J. Pure Appl. Math.	Yes	June 2015	<a href="https://link.springer.com/article/10.1007/s13226-015-0123-x">https://link.springer.com/article/10.1007/s13226-015-0123-x</a>
On Conjectures of Minkowski and Woods for n=9	Proceedings Mathematical Sciences	Yes	November 2016	<a href="https://www.ias.ac.in/article/fulltext/pmsc/126/04/0501-0548">https://www.ias.ac.in/article/fulltext/pmsc/126/04/0501-0548</a>
Refined Estimates On Conjectures Of Woods And Minkowski	Journal of the Indian Math. Soc.	Yes	2016	<a href="http://www.informaticsjournals.com/index.php/jims/article/view/2377">www.informaticsjournals.com/index.php/jims/article/view/2377</a>
$(1 - 2u^3)$ -constacyclic codes and quadratic residue codes over $F_p[u]/\langle u^4 - u \rangle$	Cryptography and Communications	Yes	2016	<a href="https://link.springer.com/content/pdf/10.1007/s12095-016-0184-7.pdf">https://link.springer.com/content/pdf/10.1007/s12095-016-0184-7.pdf</a>
Generalization of a result of Birch and Swinnerton Dyer	Journal of the Indian Math. Soc.	Yes	2018	<a href="http://www.informaticsjournals.com/index.php/jims/article/view/20142">www.informaticsjournals.com/index.php/jims/article/view/20142</a>
On conjectures of Minkowski and Woods for n=10	Proceedings Mathematical Sciences	Yes	2022	<a href="https://doi.org/10.1007/s12044-022-00679-2">https://doi.org/10.1007/s12044-022-00679-2</a>
Miscellaneous				
<ul style="list-style-type: none"> <li>• Qualified CSIR JRF NET in December 2008.</li> <li>• Qualified GATE 2009 with 94.42 percentile and All India Rank 145.</li> <li>• NANUM 2014 Travel Grant for attending International Congress of Mathematicians (ICM 2014), Seoul, Korea.</li> <li>• Got selected for UGC Post Doctoral Fellowship for Women (2017-18), but didn't go for it because joined as a regular faculty in MCM DAV for Women, Chandigarh in July 2017.</li> </ul>				