




Faculty Details proforma for DU Web-site

Title	Dr.	First Name	Atul	Last Name	Gaur	Photograph
Designation		Assistant Professor				
Address		Department of Mathematics, University of Delhi, Delhi- 110007.				
		Flat No: 7-C, Himalaya Legend, Nyaya Khand-1, Indirapuram, Ghaziabad.				
Phone No	Residence	9650980355				
	Mobile	9650980356				
Email		agaur@maths.du.ac.in ; gaurSATUL@gmail.com				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Commutative Algebra, IIT Kanpur.			2008	
PG		Integrated M.Sc. in Mathematics and Computer Science, Dr. B.R.A. University, Agra.			1999	
UG		B.Sc. (PCM), Dr. B.R.A. University, Agra.			1996	
Career Profile						
Jan, 2010 - till date: Assistant Professor, Department of Mathematics, University of Delhi, Delhi.						
Nov, 2008 - Dec, 2009: Assistant Professor, Mathematics, The LNMIIT, Jaipur.						
Nov, 2007 - Oct, 2008: Lecturer, Department of Mathematics, BITS Pilani Goa Campus, Goa.						
Administrative Assignments						
Warden, Boys Hostel 2, The LNMIIT Jaipur (April, 2009-December, 2009).						
Areas of Interest / Specialization						
Commutative Algebra, Multiplication Modules, Algebraic Graphs.						
Subjects Taught						
Mathematics-I, Mathematics-II, Algebra-I, Linear Algebra, Field Theory, Module Theory, Complex Analysis, Commutative Algebra, Advanced Commutative Algebra, Rings and Modules, Graph theory.						
Research Guidance						

M.Phil. Students:

- *Reema Agarwal (Degree Awarded).*
- *Meenal Sambhor (Degree Awarded).*
- *Jay Kishore Sahni (Degree Awarded).*
- *Karuna (Degree Awarded).*
- *Vibha Anand (Degree Awarded).*
- *Md. Sarik (Degree Awarded).*
- *Shivani Goel (Degree Awarded).*
- *Shikha Patel (Degree Awarded).*
- *Sonu Pal (In Process)*

Ph.D. Students:

- *Pranjali Sharma (Degree Awarded)*
- *Arti Sharma (Thesis Submitted)*
- *Rahul Kumar (In Process)*
- *Manoj Singh (In Process)*

Publications Profile

Rahul Kumar and Atul Gaur, Delta-extension of rings and invariance properties of ring extension under group action, *Journal of Algebra and its Applications*, 17(12), 1850239, 2018.

Rahul Kumar and Atul Gaur, A Corrigendum to "Hereditary Properties Between a Ring and its Maximal Subrings", *Ukrainian Mathematical Journal*, 70(4), 2018.

Arti Sharma and Atul Gaur, When the Maximal Graph is Planar, Outerplanar and Ring Graph, *Discrete Mathematics, Algorithms and Applications*, 10(3), 1850032, 2018.

Kumar, Rahul and Gaur, Atul. On lambda-extensions of commutative rings, *Journal of Algebra and its Applications*, 17(4), 1850063, 2018.

Mukti Acharya, Pranjali, Atul Gaur, Amit Kumar, Line Signed Graph of a Signed Total Graph, *Electronic Notes in Discrete Mathematics*, 63, 389-397, 2017.

Gaur, Atul and Sharma, Arti. Eulerian Graphs and Automorphisms of a Maximal Graph, *Indian Journal of Pure and Applied Mathematics*, 48(2), 233-244, 2017.

Sharma, Arti and Gaur, Atul. Hamiltonian property of a maximal graph and chromatic number of its line graph, *JP Journal of Algebra, Number Theory & Applications*, 38(6), 589-607, 2016.

Pranjali, Atul Gaur, Mukti Acharya. 2016. \mathcal{C} -Consistency in signed total graphs of commutative rings, *Discrete Mathematics, Algorithms and Applications*, 8(3), 1650041, 2016.

Sharma, Arti and Gaur, Atul. 2015. Line Graphs associated to the maximal graph, *Journal of Algebra and Related Topics*, 3(1), 1-11.

Gaur, Atul and Arti Sharma. 2013. Maximal Graph of a commutative ring, *International Journal of Algebra*, 7 (12), 581 – 588.

Gaur, Atul and Alok Kumar Maloo. 2009. The Theta ideal, Dense Submodule and the Forcing Linearity Number for a Multiplication Module. *Contributions to Algebra and Geometry*. 50(2): 589-602.

Gaur, Atul and Alok Kumar Maloo. 2008. Maximally Differentially Graded Ideals in Zero Characteristic. *Hiroshima Mathematical Journal*. 38(1): 31-35.

Gaur, Atul and Alok Kumar Maloo. 2008. Minimal Prime Submodules. *International Journal of Algebra*. 2(20): 953-956.

Gaur, Atul, Alok Kumar Maloo and Anand Parkash. 2007. Prime Submodules in Multiplication Modules. *International Journal of Algebra*. 1(8): 375-380.

Conference Organization/ Presentations (in the last three years)

- Attended one day National Seminar in Algebra at K.B.N. College Vijayawada on 25th October, 2011 and delivered an invited talk on Multiplication Modules.
- Attended "The Legacy of Srinivasa Ramanujan" an international conference held at University of Delhi during 17 - 22 December, 2012.
- Organized (with Prof. Preeti Wanti Srivastava & Prof. S.K. Muttoo) refresher course for college teachers (sponsored by UGC) in Mathematics, Computer Science and Operations research from 2nd-22nd January, 2013 at CPDHE, University of Delhi, Delhi.
- Organized (with Dr. Kanchan Joshi & Dr. M.M. Mishra) Instructional School for Teachers in Group theory (ATML supported by National Center for Mathematics) from 3rd-15th June, 2013 at Department of Mathematics, University of Delhi, Delhi.
- Organized (With Dr. Sachi Srivastava and Dr. C.S. Lalitha) National seminar of research scholars in Mathematics during September 20-21, 2013.
- Organized (With Prof. S.K. Mutto & Prof. Kishor Agarwal) a 3-week Refresher Course in Mathematics, Computer Science, Operational Research, Statistics from December 14, 2013 to January 04, 2014 at CPDHE, University of Delhi, Delhi-110007.
- Presented my paper "On Becks Conjecture" in the National conference on Algebra and Fuzzy Mathematics held at North Maharashtra University, Jalgaon during 21-22 February, 2014.
- Delivered an invited talk at Department of Mathematics, Aligarh Muslim University, Aligarh

(Under UGC-DRS Phase II programme) on 15th March, 2014.

- Presented my paper "Graphical representations of commutative rings" in NATIONAL CONFERENCE ON APPLICATIONS OF MATHEMATICS IN ENGINEERING AND Sciences during November 29-30, 2014 organized by Department of Mathematics, Motilal Nehru National Institute of Technology Allahabad.
- Presented my paper "Chromatic Number and Isomorphism of Maximal Graphs" in National Conference on 'Emerging Trends in Mathematical Sciences (NCETMS-2015)' during March 17-18, 2015 organized by Department of Mathematics, Choudhary Devilal University Sirsa, Haryana.
- Attended UGC sponsored Orientation Programme during May 25-June 20, 2015 at CPDHE, University of Delhi, Delhi-110007.
- Presented my paper "Diameter of Line Graph associated to a Maximal Graph of a Ring" in INTERNATIONAL CONFERENCE ON MATHEMATICS – 2015 held at Dept. of Mathematics, University of Kerala, Thiruvananthapuram (Trivandrum), Kerala during November 26-28, 2015.
- Presented my paper "A Survey on Line Graphs of various Graphs associated to a Ring" in National conference on Analysis, Differential Equations and Applications to be held at Department of Mathematics & Statistics, M L Sukhadia University, Udaipur, Rajasthan during February 25-27, 2016.
- Delivered an invited talk on August 22, 2016 at Agarwal College, Wing I, Ballabgarh on Field Theory.
- Delivered an invited talk on August 22, 2016 at Agarwal College, Wing II, Ballabgarh on Group and Rings.
- Organized (With Lalit Kumar) National conference on Algebra, Analysis, Coding and Cryptography (Sponsored by DRDO) held at Department of Mathematics, University of Delhi, Delhi during 14-15 October, 2016.
- Delivered an invited talk in Workshop on "Applications of Mathematics in Modern Era" during December 20-21, 2016 organized by Institute of Basic Sciences, Dr. B. R. Ambedkar University, Agra.
- Presented my paper "Eulerian Property of Maximal Graph, Associated Line Graph and Comaximal Graph of a Ring" in International Conference on Recent Advances in Pure and Applied Mathematics & 28th Annual Conference of Rajasthan Ganita Parishad during February 13-14, 2017 organized by Department of Mathematics and Statistics, Mohanlal Sukhadia University, Udaipur, Rajasthan.
- Attended Research Scholar Seminar & Annual Conference of the Society of Mathematical Sciences (Delhi) during May 01-02, 2017 organized by Department of Mathematics, University of Delhi, Delhi.
- Attended UGC sponsored Refresher course in Mathematical Sciences during June 6-27, 2017 at CPDHE, University of Delhi, Delhi-110007.
- Delivered an invited talk in International Conference on Recent Advances in Mathematics during February 17-18, 2018 held at Agarwal College, Ballabgarh.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Got highest marks (79%) in Integrated M.Sc. in Mathematics and Computer science, in my batch.
Qualified CSIR-JRF UGC-NET June 2002 exam under CSIR fellowship Scheme.
Qualified GATE 2002 exam.
Selected for NBHM Post Doctoral fellowship in October, 2007.

Association With Professional Bodies

Member of Academy of Discrete Mathematics and Applications

Other Activities

Signature of Faculty Member