



Dr. Malik Tusif Ahmed

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Department of Mathematics and Statistics, Hazara University, 21120,
Mansehra, Pakistan

● WORK EXPERIENCE

01/12/2020 – CURRENT – Manehra, Pakistan

LECTURER (MATHEMATICS) – DEPARTMENT OF MATHEMATICS AND STATISTICS, HAZARA UNIVERSITY MANSEHRA

06/10/2020 – 30/11/2020 – Bagh, Pakistan

ASSISTANT PROFESSOR AND DEPARTMENT COORDINATOR – DEPARTMENT OF MATHEMATICS, WOMEN UNIVERSITY OF AZAD JAMMU AND KASHMIR

19/08/2019 – 18/08/2020 – Lahore, Pakistan

POSTDOC POSITION – ABDUS SALAM SCHOOL OF MATHEMATICAL SCIENCES, GOVERNMENT COLLEGE UNIVERSITY

- Working on my research project entitled "Commutative Algebra: Factorization in ideals"
- Besides, recently I started a new project entitled "Graded integral domains and their graded (weakly) (m,n) -closed ideals".
- Teaching master's students.

04/2018 – 03/2019 – Bagh, Pakistan

ASSISTANT PROFESSOR – DEPARTMENT OF MATHEMATICS, WOMEN UNIVERSITY OF AZAD JAMMU AND KASHMIR

● EDUCATION AND TRAINING

2014 – 2017 – Lahore, Pakistan

PHD MATHEMATICS – Abdus Salam School of Mathematical Sciences, Government College University

Supervised by Professor Dr. Tiberiu Dumitrescu

Thesis: Radical and Invertible-Radical Factorization in Commutative Rings

<http://pr.hec.gov.pk/jspui/handle/123456789/12902>

2012 – 2014 – Lahore, Pakistan

MPHIL MATHEMATICS – Abdus Salam School of Mathematical Sciences, Government College University

Supervised by Professor Dr. Tiberiu Dumitrescu

Thesis: Various Facets of Dedekind - Mertens Theorem

2009 – 2011 – Islamabad, Pakistan

MSC MATHEMATICS – Quaid-i-Azam University

2006 – 2008 – Mensehra, Pakistan

BSC (DOUBLE MATH, PHYSICS) – Hazara University

2004 – 2006 – Abbottabad, Pakistan

FSC (PRE-ENGINEERING) – BISE Abbottabad

2002 – 2004 – Abbottabad, Pakistan

SSC (SCIENCE GROUP) – BISE Abbottabad

● RESEARCH ARTICLES

Published Work

- **M.T. Ahmed** & T. Dumitrescu, (2017). SP-rings with zero-divisors. *Communications in Algebra*, 45(10), 4435-4443. DOI: <https://doi.org/10.1080/00927872.2016.1267184>
- M. Mukhtar, **M.T. Ahmed** & T. Dumitrescu, (2018). Commutative rings with two-absorbing factorization. *Communications in Algebra*, 46(3), 970-978. DOI: <https://doi.org/10.1080/00927872.2017.1332202>
- **M.T. Ahmed** & T. Dumitrescu, (2018). Domains with invertible radical factorization. *Bulletin of the Korean Mathematical Society*, 55(3), 809-818. DOI: <https://doi.org/10.4134/BKMS.b170265>
- **M.T. Ahmed**, (2020). SP-domains are almost Dedekind – a streamlined proof. *Discussiones Mathematicae General Algebra and Applications*, 40(1), 21-24. DOI: <https://doi.org/10.7151/dmgaa.1320>
- **M. T. Ahmed**, C. Bakkari, N. Mahdou & A. Riffi (2020) Graded pseudo-valuation domains, *Communications in Algebra*, 48(11), 4555-4568. DOI: <https://doi.org/10.1080/00927872.2020.1766057>
- **M.T. Ahmed**, T. Dumitrescu & M.A. Khadam, (2020). Commutative rings with absorbing factorization, *Communications in Algebra*, 48(12), 5067-5075. DOI: <https://doi.org/10.1080/00927872.2020.1778714>
- **M.T. Ahmed**, N. Mahdou & Y. Zahir, (2022). Commutative rings with invertible-radical factorization. *Journal of Algebra and its Applications*, 220153 (16 pages). DOI: <https://doi.org/10.1142/S0219498822501535>
- **M.T. Ahmed**, C. Bakkari, N. Mahdou & A. Raffi, (2023). A characterization of graded pseudo-valuation domains. *Journal of Algebra and its Applications*, 235004 (14 pages). DOI: <https://doi.org/10.1142/S0219498823500445>

Submitted Work

- **M.T. Ahmed**, M. Issoual and N. Mahdou (2020) Graded (m,n)-closed and weakly graded (m,n)-closed ideals.

● JOB-RELATED SKILLS

Teaching and research

- Teaching: 1) Commutative Algebra, 2) Multiplicative Ideal Theory, 3) Number Theory, 4) Affine and Euclidean Geometry, 5) Field Extensions and Galois Theory, 6) Theory of Group Actions
- Research: advised two BS students in Number Theory

Courses taught

- Calculus
- Linear Algebra
- Commutative Algebra-I
- Commutative Algebra-II
- Number Theory
- Affine and Euclidean Geometry
- Multiplicative Ideal Theory
- Theory of Group Actions
- Field Extensions and Galois Theory

Presentations/Talks

- Primary decomposition in Noetherian rings, December 2019, AS-SMS, GC University Lahore
- Primary decomposition, December 2019, AS-SMS, GC University Lahore
- Radical factorization in commutative rings, November 2018, NUST Islamabad
- Radical and invertible-radical factorization in commutative rings, December 2017, AS-SMS, GC University Lahore
- Questions about a variation of local cohomology I, August 2017, AS-SMS, GC University Lahore
- Questions about a variation of local cohomology II, August 2017, AS-SMS, GC University Lahore
- An example of almost Dedekind domain, October 2016, AS-SMS, GC University Lahore
- An essential ring which is not a v-multiplication ring, March 2016, AS-SMS, GC University Lahore
- Constructing SP-domains in Boolean spaces, March 2016, AS-SMS, GC University Lahore
- Connection between SP domains and almost Dedekind domains, Feb. 2016, AS-SMS, GC University Lahore
- Some interesting facts about almost Dedekind domain, Feb. 2016, AS-SMS, GC University Lahore
- Factorization into radical ideals, Feb. 2016, AS-SMS, GC University Lahore
- Topological invariants and ideal factorization for one-dimensional Prufer domains, Feb. 2016, AS-SMS, GC University Lahore
- Group action and Sylow theory, April 2014, AS-SMS, GC University Lahore
- Groebner Basis, Jan. 2014, AS-SMS, GC University Lahore
- Hyperplane arrangements, Nov. 2013, AS-SMS, GC University Lahore

● SCIENTIFIC MEETINGS

Conferences/Workshops/Seminar series

- Algebraic Geometry and its Applications, August 27-30, 2018, AS-SMS, GC University Lahore
- (CIMPA School) Combinatorial Commutative Algebra, March 05-14, 2018, CIIT Lahore
- UNDERSTANDING SALAM, Two Day School On Salam's Big Ideas, January 28-29, 2017, AS-SMS, GC University Lahore
- First Winter Workshop on Advanced Topics in Mathematics: Commutative Algebra and Banach Space Theory, December 26-29, 2017, AS-SMS, GC University Lahore
- CASM Workshop on Algebra and Applications, December 9-10, 2016, LUMS Lahore
- Multiplicative Ideal Theory, Spring 2016, AS-SMS, GC University Lahore
- 6th World Conference on 21st Century Mathematics 2013, February 6-10, 2013, AS-SMS, GC University Lahore

● ORGANISATIONAL SKILLS

Seminar Series on Multiplicative Ideal Theory

Organized a seminar series "Multiplicative Ideal Theory" at ASSMS Lahore in Spring 2016

● **COMMUNICATION AND INTERPERSONAL SKILLS**

Presentations and Collaborations

I have presented several times in seminar series in front of diverse international audience. Further, I also collaborated with international mathematicians.

● **LANGUAGE SKILLS**

Mother tongue(s): **HINDKO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2
URDU	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **RECOMMENDATIONS**

Professor Dr. Tiberiu Dumitrescu – PhD Supervisor – tiberiu_dumitrescu2003@yahoo.com

Address: Facultatea de Matematica si Informatica, University of Bucharest, 14 Academiei Str., Bucharest, RO 010014, Romania

Dr. Imran Anwar – Associate Professor & Chair Department of Mathematics, LUMS – imran.anwar@lums.edu.u.pk – (+92) 3214410573

Address: Syed Babar Ali School of Science and Engineering, Lahore University of Management Sciences (LUMS)

<https://sites.google.com/view/imrananwar/home> https://lums.edu.pk/lums_employee/7501

Professor Dr. Viviana Ene – vivian@univ-ovidius.ro

Address: Faculty of Mathematics and Computer Science, Ovidius University, Bd. Mamaia 124, 900527 Constanta, Romania