CURRICULUM VITAE

Dr. Tahir Mahmood

S/O

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JOB OBJECTIVE

An ambitious, qualified, committed, and enthusiastic academic with a range of teaching experience, aiming to broaden horizons in the field of Algebra.
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AREAS OF INTEREST

Algebraic Structures, Fuzzy Algebraic Structures, Soft Sets

ACADEMIC QUALIFICATION

Degree/ Certificate	Institution	Session	Major Courses/Division
Ph.D. (Mathematics)	Quid-i-Azam University, Islamabad	2006-2012	Spectral Theory of Hilbert spaces, Homological Algebra-I, Theory of Semirings, Fuzzy Algebra, General Relativity, Numerical Solution of PD Eq.
Ph.D. Research Thesis Title: Some Characterizations of Hemirings by the Properties of Their Fuzzy Ideals			
M.Phil (Mathematics)	Quid-i-Azam University, Islamabad	2003-2005	Semigroup Theory, Near Rings, Theory of Group Actins, Theory of Group Graphs, Theory of Complex Manifolds, Banach Algebra, Ring Theory-I, Ring Theory-II. / 1st Div
M.Sc. (Mathematics)	Govt. Post Graduate College Asghar Mall, Rawalpindi	1995-1997	1st Div
B.A.	Govt. Degree College, Talagang.	1992-1994	1st Div
F.A.	Govt. Degree College, Fteh Jang.	1990-1992	2nd Div
SSC	Govt. High School, Chakwal.	1988-1990	1st Div
B.Ed.	Allama Iqbal Open University, Islamabad	1997-1999	2nd Div

Research Profile:

Total Impact Factor: 23.372

Published Papers:

1) Muhammad Shabir and **Tahir Mahmood**, Hemirings characterized by the properties of their fuzzy ideals with thresholds, Quasigroups and Related Systems 18 (2010), 195 - 212. **(HEC Recognised)**

2) Asghar Khan, Young Bae Jun and **Tahir Mahmood**, Generalized Fuzzy Interior Ideals in Abel Grassmann's Groupoids, Int. J. of Mathematics and Mathematical Sciences, Volume 2010, Article ID 838392, 14 pages, doi:10.1155/2010/838392. **(HEC Recognised)**

3) Muhammad Shabir and **Tahir Mahmood**, Characterizations of Hemirings by Interval Valued Fuzzy Ideals, Quasigroups and Related Systems, 19 (2011), 317-329. **(HEC Recognised).**

4) Muhammad Shabir and **Tahir Mahmood**, On Interval Valued (α, β)-Fuzzy Ideals of Hemirings, East Asian Mathematical Journal, 27 (2011), No. 3, pp. 349-372.

5) Muhammad Shabir and **Tahir Mahmood**, Characterizations of Hemirings by $(\in, \in \vee q_k)$ - Fuzzy Ideals, Computers and Mathematics with Applications, 61 (2011) 1059-1078. **I. F. 1.531**

6) Muhammad Shabir, Yasir Nawaz and **Tahir Mahmood**, Characterizations of Hemirings by $(\overline{\in}, \overline{\in} \vee \overline{q})$ -Fuzzy Ideals, Neural Computing and Applications, (2012) 21 (Suppl 1):S93–S103.

   I. F. 2.505

7) Muhammad Shabir and **Tahir Mahmood**, Hemirings Characterized by Interval Valued $(\overline{\in}, \overline{\in} \vee \overline{q})$ -Fuzzy k -Ideals, Mathematica Aeterna, 2 (1) (2012) 1 - 19.

8) **Tahir Mahmood** and Muhammad Shabir Characterizations of h-hemiregular and h-semisimple Hemirings by interval valued fuzzy h-ideals, World Applied Science Journal, 17 (12) 1821-1827. **(HEC Recognised)**

9) Muhammad Shabir and **Tahir Mahmood**, Spectrum of $(\in, \in \vee q)$-fuzzy prime h-ideals of a hemiring, World Applied Science Journal, 17 (2012) 1815-1820. **(HEC Recognised)**

10) Muhammad Shabir, Noshin Malik and **Tahir Mahmood**, On Interval Valued Fuzzy h-ideals in Hemirings, East Asian Mathematical Journal, 28 (1) (2012) 49-62.

11) Muhammad Shabir, Noshin Malik and **Tahir Mahmood**, Characterizations of hemirings by the properties of their interval valued fuzzy ideals, Annals of Fuzzy Mathematics and Informatics, 3 (2) (2012) 229- 242.

12) Muhammad Shabir, Noshin Malik and **Tahir Mahmood**, On Interval Valued Fuzzy ideals in Hemirings, Annals of Fuzzy Mathematics and Informatics, 4(1) (2012) 49- 62.

13) **Tahir Mahmood**, New Types of Interval Valued Fuzzy h-Ideals of Hemirings, World

Applied Science Journal, 18 (2012) 1883-1889. **(HEC Recognised)**

14) **Tahir Mahmood** and Muhammad Shabir Ideals Redefined to Characterize Hemirings, World Applied Science Journal, 18 (2012) 1870-1882. **(HEC Recognised)**

15) **Tahir Mahmood** and Muhammad Aslam, On interval-valued $\left(\in_{\gamma}, \in_{\gamma} \vee q_{\delta}\right)$-fuzzy k-ideals in hemirings, Neural Computing & Applications, 21 (1)(2012) 231–244. **I. F. 2.505**

16) Muhammad Shabir, **Tahir Mahmood** and Saqib Hussain, Hemirings Characterized by Interval Valued $(\in, \in \vee q)$-Fuzzy k-Ideals, World Applied Sciences Journal 20(12)(2012) 1678-1684. **(HEC Recognised)**

17) **Tahir Mahmood**, Hemirings Characterized by the properties of their $(\bar{\in}, \bar{\in} \vee \bar{q}_{k})$-fuzzy ideals, Iranian Journal of Science and Technology, 37 (2013) 265-275. **I. F. 0.217**

18) **Tahir Mahmood** and Muhammad Munir On Bipolar Fuzzy Subgroups,, World Applied Sciences Journal, 27(12)(2013) 1806-1811. **(HEC Recognised)**

19) **Tahir Mahmood**, Characterizations of h –Hemiregular and h –Semisimple Hemirings by Interval Valued $\left(\bar{\in}, \bar{\in} \vee \bar{q}\right)$-Fuzzy h –Ideals, The Nucleus 51(1)(2014) 19-27. **(HEC Recognised)**

20) Muhammad Shabir, Yasir Nawaz and **Tahir Mahmood**, Characterizations of Hemirings by $(\in, \in \vee q)$ -Fuzzy Ideals, East Asian Mathematical Journal, 31(2015) 001-018.

21) **Tahir Mahmood** and Khizar Hayat Characterizations of Hemi-Rings by their Bipolar-Valued Fuzzy h-Ideals, Inf. Sci. Lett. 4(2) (2015) 51-59.

22) **Tahir Mahmood** and Usman Tariq, Generalized k-Ideals in Semirings using Soft Intersectional Sets, International Journal of Algebra and Statistics, 4(1) (2015) 20-38.

23) Muhammad Irfan Ali, **Tahir Mahmood**, M. Muti ur Rahman and M. Fahim Aslam, On lattice ordered soft sets, Applied Soft Computing 36 (2015) 499-505 **I. F. 3.541**

24) **Tahir Mahmood** and Asim Ejaz, On Bipolar Valued Fuzzy k-Ideals in Hemirings, The Nucleus 52 (3) (2015) 115-122. **(HEC Recognised)**

25) **Tahir Mahmood**, Ayesha Waqas and M. A. Rana, Soft Intersectional Ideals in Ternary Semirings, Science International, 27 (5) 2015, 3929-3934. **(HEC Recognised)**

26) **Tahir Mahmood** and Khizar Hayat, Applications of Soft Intersection Set in $\mathbb{B}$-Algebra via SI- $\mathbb{B}$- Ideals, International Journal of Algebra and Statistics, 4(2) (2015) 57-62.

27) **Tahir Mahmood**, Saleem Abdullah and Qaisar Khan, Regular Cubic Language and Regular Cubic Expression, Advances in Fuzzy Sets and Systems, 20(2) (2015) 97-132.

28) Saleem Abdullah, Wafa S. Al Shammakh, **Tahir Mahmood** and Muhammad Shahzad, Fuzzy soft set over a fuzzy topological space, International Journal of Machine Learning and Cybernatics, 7 (2016) 491-499. DOI 10.1007/s13042-015-0420-z **I. F. 1.699**

29) Khizar Hayat and **Tahir Mahmood** Some Applications of Bipolar Soft Set: Characterizations of Two Isomorphic Hemi-Rings via BSI-h-Ideals, British Journal of Mathematics and Computer Science, 13 (2) (2016) 1-21.

30)   **Tahir Mahmood**, Qaisar Khan and Mohsin Ali, *Q-Single Valued Neutrosophic Sets, Journal of New Theory, 13 (2016) 10-25.*

31)   **Tahir Mahmood**, *Faisal Mehmood and Qaisar Khan,* Cubic Hesitant Fuzzy Sets and Their Applications to Multi Criteria Decision Making, *International Journal of Algebra and Statistics, 5 (1) (2016) 19-51.*

32)   *Khizar Hayat,* Bing-Yuan Cao, **Tahir Mahmood** and Kalim Ul-Haq Tariq, *Applications of double-framed soft ideals in* BE-*algebras, New Trends in Mathematical Sciences, 4(2) (2016) 285-295.*

33)   **Tahir Mahmood**, *Saleem Abdullah, Muhammad Bilal and Saeed ur Rashid, Multi Criteria Decision Making Based on Bipolar Valued Fuzzy Sets, Annals of Fuzzy Mathematics and Informatics, 11(6)(2016) 1003-1009.*

34)   **Tahir Mahmood** *and Qaisar Khan Interval Neutrosophic finite switchboard state machine, Afrika Matematika, 27 (2016) 1361-1376.*

35)   **Tahir Mahmood**, *Ayesha Waqas, Muhammad Afzal Rana and Usman Tariq, Generalized Soft Intersectional Ideals in Ternary Semirings, Journal of Advance Research in Mathematics and Mathematical Sciences, 1(4) (2016) 1-9.*

36)   **Tahir Mahmood**, *Faisal Mehmood and Qaisar Khan, Some Generalized Aggregation Operators for Cubic Hesitant Fuzzy Sets and Their Applications to Multi Criteria Decision Making, Punjab University Journal of Mathematics 49 (1) (2017) 31-49* **(HEC Recognised)**

37)   **Tahir Mahmood**, *Jun Ye and Qaisar Khan, Multiple Attribute Decision-Making Method under Hesitant Single Valued Neutrosophic Uncertain Linguistic Environment, J. of Inequalities and Special Functions. 2 (2017) 1-17.*

38)   **Tahir Mahmood,** *Jun Ye and Qaisar Khan, Vector Similarity Measures for Simplified Neutrosophic Hesitant Fuzzy Set and Their Applications, J. of Inequalities and Special Functions 7 (4) (2016) 176-194.*

39)   *Khizar Hayat,* **Tahir Mahmood** *and Bing-Yuan Cao, On Bipolar Anti Fuzzy h-Ideals in Hemi-rings, Fuzzy Information and Engineering 9 (2017) 1-19.*

40)   **Tahir Mahmood**, *Saleem Abdullah, Saeed ur Rashid and Muhammad Bilal, Multicriteria Decision Making Based on Cubic sets, Journal of New Theory, 16 (2017) 1-9.*

41)   *Peide Liu,* **Tahir Mahmood** *and Qaisar Khan, Multi-Attribute Decision-Making Based on Prioritized Aggregation Operator under Hesitant Intuitionistic Fuzzy Linguistic Environment, Symmetry, 9(11) (2017) 270.* **I. F. 1.457**

42)   *Saqib Hussain, J. Sokol, Umer Farooq, Maslina Darus and* **Tahir Mahmood**, *APPLICATIONS OF CONVOLUTION AND SUBORDINATION TO CERTAIN p-VALENT FUNCTIONS, Bulletin of the Iranian Mathematical Society, 43 (6) (2017) 1739-1749.*

   I. F. 0.287

43)   Murad Ullah, **Tahir Mahmood**, Muhammad Bilal Khan, Kifayat Ullah, On Twisted Soft Ideal of Soft Ordered Semigroups, *Journal of Information Communication Technologies and Robotic Applications, 8(2) (2017) 74-85.*

44) **Tahir Mahmood**, Kifayat Ullah, Murad Ullah Khan, Naeem Jan, Irfan Deli, Qaisar Khan, Some Aggregation Operators for Bipolar-Valued Hesitant Fuzzy Information based on Einstein Operational Laws, Journal of Engineering and Applied Sciences, 36(2)(2017) 63-72.

45) **Tahir Mahmood,** Kifayat Ullah, Qaisar Khan and Florentin Smarandache, Some Aggregation Operators For Bipolar-Valued Hesitant Fuzzy Information, Journal of Fundamental and Applied Sciences, 10(4S) (2018) 240-245.

46) Muhammad Irfan Ali, **Tahir Mahmood** and Azmat Hussain, A study of generalized roughness in $(\in, \in \vee q_k)$ -fuzzy filters of ordered semigroups, Journal of Taibah University for Science, 12(2)(2018) 163-172.

47) Peide Liu, **Tahir Mahmood** and Qaisar Khan,Group Decision Making Based on Power Heronian Aggregation Operators Under Linguistic Neutrosophic Environment, International Journal of Fuzzy Systems, 20(3) (2018) 970-985, **I. F. 2.198**

48) **Tahir Mahmood**, Peide Liu, Jun Ye and Qaisar Khan, Several hybrid aggregation operators for triangular intuitionistic fuzzy set and their application in multi-criteria decision making, Granular Computing, 3 (2018) 153-168.

49) Kifayat Ullah, **Tahir Mahmood,** Naeem Jan, Similarity Measures for T-Spherical Fuzzy Sets with Applications in Pattern Recognition, Symmetry 10 (2018) 193, **I. F. 1.457.**

50) **Tahir Mahmood,** Muhammad Irfan Ali, Azmat Hussain, Generalized roughness in fuzzy filters and fuzzy ideals with thresholds in ordered semigroups, Computational and Applied Mathematics, 37(2018) 5013-5033, **I. F. 0.863.**

51) Qaisar Khan, Peide Liu and **Tahir Mahmood,** Some Generalized Dice Measures for Double-Valued Neutrosophic Sets and Their Applications, mathematics, 6 (2018) 121.

52) **Tahir Mahmood,** Muhammad Irfan Ali, Muhammad Aamir Malik, Waseem Ahmad, On Lattice Ordered Intuitionistic Fuzzy Soft Sets, International Journal of Algebra and Statistics, 7 (2018) 46-61.

53) Qaisar Khan, Nasruddin Hassan and **Tahir Mahmood,** Neutrosophic Cubic Power Muirhead Mean Operators with Uncertain Data for Multi-Attribute Decision Making, Symmetry, 10 (2018) 444, **I. F. 1.457.**

54) Peide Liu, Qaisar Khan, Jun Ye and **Tahir Mahmood**, Group Decision-Making Method Under Hesitant Interval Neutrosophic Uncertain Linguistic Environment, International Journal of Fuzzy Systems, 20(7)(2018) 2337-2353 **I. F. 2.198.**

55) Qaisar Khan, Peide Liu, **Tahir Mahmood**, Florentin Smarandache and Kifayat Ullah, Some Interval Neutrosophic Dombi Power Bonferroni Mean Operators and Their Application in Multi Attribute Decision Making, Symmetry 10(2018) 459, **I. F. 1.457.**

56) *Tahir Mahmood, Zia Ur Rehman and Aslihan Sezgin, Lattice Ordered Soft Near Rings, The Korean Journal of Mathematics, 26(3) (2018) 503-517.*

57) *Shahzaib Ashraf, **Tahir Mahmood,** Saleem Abdullah and Qaisar Khan, Picture Fuzzy Linguistic Sets and Their Applications for Multi-Attribute Group Decision Making Problems, The Nucleus, 55 (2) (2018) 66-73. **(HEC Recognised)***

58) *Kifayat Ullah,* **Tahir Mahmood,** *Naeem Jan, Said Broumi and Qaisar Khan, On Bipolar-Valued Hesitant Fuzzy Sets and Their Applications in Multi-Attribute Decision Making, The Nucleus, 55(2) (2018) 93-101.* **(HEC Recognised)**

Accepted Papers:

1) **Tahir Mahmood,** *Kifayat Ullah, Qaisar Khan, Naeem Jan, An Approach Towards Decision Making and Medical Diagnosis Problems Using the Concept of Spherical Fuzzy Sets, Neural Computing and Applications,* **I. F. 4.213.**

2) *Shahzaib Ashraf, Saleem Abdullah,* **Tahir Mahmood,** *Fazal Ghani, Spherical Fuzzy Sets and Their Applications in Multi-Attribute Decision Making Problems, Journal of Intelligent and Fuzzy Systems,* **I. F. 1.261.**

3) *Shahzaib Ashraf,* **Tahir Mahmood,** *Saleem Abdullah and Qaisar Khan, DIFFERENT APPROACHES TO MULTI-CRITERIA GROUP DECISION MAKING PROBLEMS FOR PICTURE FUZZY ENVIRONMENT, Bulletin of The Brazilian Mathematical Society,* **I. F. 0.410.**

4) *Bijan Davvaz, Naeem Jan,* **Tahir Mahmood** *and Kifayat Ullah, Intuitionistic Fuzzy Graphs of nth Type with Applications, Journal of Intelligent and Fuzzy Systems,*

   I. F. 1.261.

5) *Naeem Jan, Lemnaoauar Zedam,* **Tahir Mahmood**, *Kifiyat Ullah, Zeeshan Ali, Multiple Attribute Decision Making Method Under Linguistic Cubic Information, Journal of Intelligent and Fuzzy Systems,* **I. F. 1.261.**

6) *Qaisar Khan,* **Tahir Mahmood** *and Nasruddin Hassan, Multi Q-Single valued Neutrosophic Soft Expert Set and its Applications in Decision Making, Punjab University Journal of Mathematics.* **(HEC Recognised).**

7) *Peide Liu, Qaisar Khan, Jun Ye and* **Tahir Mahmood**, *Multiple-Attribute Decision Making Based on Single-Valued Neutrosophic Schweizer-Sklar Prioritized aggregation Operator, Cognitive Systems Research (ISSN: 1389-0417),* **I. F. 1.182.**

8) *Talal Al-Hawary,* **Tahir Mahmood**, *Naeem Jan, Kifayat Ullah, Azmat Hussain, On Intuitionistic Fuzzy Graphs and Some Operations on Picture Fuzzy Graphs, Italian Journal of Pure and Applied Mathematics.*

Refereeing and Reviewing

1) *IEEE Transactions on Fuzzy Systems*
2) *Computers and Mathematics with Applications*
3) *Neural Computing and Applications*
4) *World Applied Sciences Journal*
5) *International Journal of Algebra and Statistics*
6) *The Nucleus*
7) *Journal of Applied Mathematics and Computing*
8) African Journal of Mathematics and Computer Science Research
9) Cogent Mathematics
10) Springer Plus
11) *TWMS Journal of Applied and Engineering Mathematics*
12) *Journal of Intelligent System*

13)   *Computational and Applied Mathematics*
14)   Asian Journal of Mathematics and Computer Research
15)   Journal of Statistics and Mathematical Sciences

Thesis Supervision of Ph. D. Students:
Thesis of Mr. Qaisar Khan has been submitted for foreign review and Five are working.

Thesis Supervision of MS Students:

Sr.	Name of Student	Title of Thesis	Year
1	Qaisar Khan	Cubic Finite Automata and Cubic Language	2014
2	Muhammad Muti Ur Rehman	Study of Soft Sets with Ordered Set of Parameters	2014
3	Asim Ejaz	Bi-Polar Valued Fuzzy k-Ideals of Hemirings	2014
4	Muhammad Fahim Aslam	Study of fuzzy soft sets with some order on parameters	2014
5	Khizar Hayat	Bipolar valued fuzzy h-ideals in hemirings	2015
6	Muhammad Naeem	Interval valued fuzzy ideals in ternary semirings	2015
7	Usman Tariq	Ideal Theory in Semiring Based on Soft Sets	2015
8	Muhammad Bilal	Decision Making Based on Bipolar Valued Fuzzy Sets	2015
9	M. Saeed ur Rashid	Decision Making Based on Cubic Sets	2015
10	Muhammad Munir	On Bipolar Valued Fuzzy Ideals in Ternary Semirings	2015
11	Ayesha Anum	Soft Intersectional Ideals in Ternary Semirings	2015
12	Azhar Rauf Khan	A Study of Soft Matrices	2016
13	Mohsin Ali Khan	Some Extensions of Q-Fuzzy Soft Sets	2016
14	Asim Zamir	Characterizations of Ternary Semirings by their Soft Intersectional Ideals	2016
15	Kifayat Ullah	Decision Making Based on Bipolar Valued Hesitant Fuzzy Sets	2016
16	Naeem Jan	On Lattice Ordered Soft Groups	2016
17	Muhammad Mubashar Rafique Abbasi	Some Contribution in Lattice Ordered Soft Semigroups	2016
18	Faisal Mehmood	Decision Making Based on Cubic Hesitant Fuzzy Sets	2016
19	Shahzaib Ashraf	Some Contribution in Generalization of Fuzzy Sets	2017
20	Naveed Ahmed Shah	Some Contribution in Lattice Ordered Fuzzy Soft Sets	2017
21	Zia Ur Rehman	On Lattice Ordered Soft Near Rings	2017
22	Muhammad Aamir Malik	On Lattice Ordered Intuitionistic Fuzzy Soft Sets	2017
23	Zulekha Parveen	Normal and Non-Normal Pairs of Coxeter Groups	2017
24	Abdul Jaleel	Roughness of Soft Ideals of Rings	2018
25	Arsalan Ahmed	Roughness of Soft Ideals of Ordered Semigroups	2018
26	Muhammad Bilal Khan	Some Contributions in Soft Semigroups	2018
27	Mohsin Khan	Some Results in Lattice Ordered Fuzzy Soft Near Rings	2018
28	Chaudhry Sami Ullah Khan	On Lattice Ordered Soft Vector Spaces	2018
29	Umar Ashfaq	A Study of Rough Soft Groups	2018
30	Muhammad Nadeem Qureshi	A Study of Lattice Ordered Soft Modules	2018

31	Ajllal Ahmad	A Study of Neutrosophic Soft Semigroups with Ordered Set of Parameters	2018

Seven are working.

CONFERERENCES ATTENDED

1) *4th International Pure Mathematics Conference 2004*
2) *5th International Pure Mathematics Conference 2005*
3) *8th International Pure Mathematics Conference 2008*
4) *9th International Pure Mathematics Conference 2009*
5) *10th International Pure Mathematics Conference 2010*
6) *11th International Pure Mathematics Conference 2011*
7) *All Pakistan Mathematical Conference 2011*

CONFERERENCES ORGANIZED

1) *Two Days Conference on Mathematical Sciences (IIUI) 2012*
2) *Two Days Conference on Mathematical Sciences (IIUI) 2017*

TEACHING EXPERIENCE

Permanent			
Lecturer (Mathematics)	Pakistan Advanced College of Excellence(PACE), Rawalpindi Cantt.	Aug 03, 1998 - Sep 25, 2000	Taught Maths of F.Sc. and of BS(Calculus, Discrete Mathematics, Numerical Analysis)
Lecturer (Mathematics)	Federal Directorate of Education, Islamabad	Sep 26, 2000 – Oct 01, 2005	Mathematics
Lecturer (Mathematics)	International Islamic University, Islamabad	Oct 03, 2005 – Jun 25, 2007	Teaching Maths of BS and M.Sc. (Calculus, Real Analysis, Group Theory, Linear Algebra, Topology, Numerical Analysis)
Assistant Professor (Mathematics)	International Islamic University, Islamabad	Jun 26, 2007 – todate	Teaching Maths of BS and M.Sc. (Calculus, Real Analysis, Group Theory, Linear Algebra, Topology, Numerical Analysis, Rings and Fields) and MS, Ph.D. (Fuzzy Algebra, Theory of Semirings, Near Rings, Topics in Algebra)
Visiting			
Lecturer (Mathematics)	Pakistan Advanced College of Excellence(PACE), Rawalpindi Cantt.	Sep 2000 – Sep 2002	Taught Maths of BS Calculus, Discrete Mathematics, Numerical Analysis)
Instructor (Mathematics)	Fatima Jinnah Women University	One Semester	Taught Discrete Mathematics to BS
Lecturer (Mathematics)	Allama Iqbal Open University	Two Semesters	Taught Mechanics to M.Sc.
Total Teaching Experience:		**19+ Years (Continued)**	
Post Graduate & University Teaching Exp.:		**17+ Years (Continued)**	

REFERENCES

Dr. Muhammad Shabir	Dr. Muhammad Sajid
Professor,	Professor,
Department of Mathematics,	Department of Maths and Stats,
Quaid-i-Azam University, Islamabad,	International Islamic University, Islamabad,
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