



**Name:** Dr. Hidayat Ullah Khan Khattak

**Father Name:** Aziz Mohammad Khattak

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**Position:** Assistant Professor

**E-mail Addresses:** [hidayatk2@yahoo.com](mailto:hidayatk2@yahoo.com)

**Website:** [www.gu.edu.pk](http://www.gu.edu.pk)

**Present Address:** Department of Chemistry, Gomal University, Dera Ismail Khan

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### 1. ACADEMICS:

Certificate/Degree	Institution	Marks	Grade/Class
SSC	BISE Bannu	590/850	B/1st Class
HSSC	BISE Bannu	543/1100	2 <sup>nd</sup> Class
B.Sc	Gomal University	305/550	2 <sup>nd</sup> Class
M.Sc	University of Peshawar	726/1200	B/1st Class
B.Ed	AIOU	562/1000	B/1st Class
M.Phil	University of Peshawar	CGPA= 3.2	B/1st Class
<b>Ph.D</b>	University of Peshawar	CGPA=3.5	<b>B/1st Class</b>

### 2. FIELD OF SPECIALIZATION:

1. Organic/ Physical Chemistry/Analytical (Analytical Environmental Chemistry) in Ph.D

### 3. MY THESIS TITLES:

1. **Ph. D** = “Assessment of Levels of Concentration of Toxic Heavy Metals in Water and Food Commodities in Urban Peshawar”

2. **M. Phil**= “Study of the Photo, Auto and Thermal Oxidative Stability of Silybum Marinum and Sunflower Oil”

3. **M. Sc** = “Drinking Water Qualities of Kohat Region”

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### **CAREER RESUME:**

1. **Lecturer** (Contract): Department of Chemistry, in Private Teaching Institutions in Peshawar, from August 1, 2000-2007.

2. **Lecturer** (Permanent): Higher Education Department (Colleges) Govt. of Baluchistan. from May 5, 2007 to March 13, 2008.

3. **Lecturer** (Contract): Department of Chemistry, Gomal University Dera Ismail Khan

4. **Assistant Professor** (Permanent): Department of Chemistry, Gomal University Dera Ismail Khan, Since 21 January 2012.

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### **5. RESEARCH INTERESTS:**

#### **5.1 Analytical Chemistry**

1. Extraction of Heavy Metals from different media using different In-organic Extractants

2. Sequential extraction Processes

3. Quantification of heavy and trace metal contamination in soil

#### **5.2 Environmental Chemistry**

4. Monitoring of underground, sewage waste water quality/industrial effluents and its impacts on human life.

5. Assessment of total and extractable concentration levels of toxic heavy metals in water, soil and vegetables using different extract ants.

6. Exploration of soil contaminants, and their transfer factor to vegetables.

#### **5.3 Food Chemistry**

7. Auto, photo and thermal oxidative stability of indigenous medicinal plants under different storage conditions.

8. Thermal Analysis of Oils by TGA

9. Determination of metals in the commercially available medicinal herbs.
10. Exploration of nutritional status of medicinal herbs.
11. Deep Fat Frying Performances of different Edible Oils.
12. Quality Improvement of used fried oil by treatment with different Adsorbents.

#### **5.4 Surface Chemistry**

13. Removal of Arsenic from ground water by novel adsorbents.
  14. Removal of in-organic pollutants from water and soil by novel adsorbent.
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#### **Conference Presentations/Attended:**

1. Paper presented in Ninth Symposium on Analytical and Environmental Chemistry at Bara Galli Campus 24<sup>th</sup> to 26<sup>th</sup> July 2006.
2. Paper presented in 9<sup>th</sup> International and 21<sup>st</sup> National Chemistry Conference- 2011, February 7-9, 2011.
3. Poster presented in First National Conference on Physical & Environmental Chemistry (PEC-2010), 27<sup>th</sup> to 29<sup>th</sup> September 2010.
4. Use of GIS for Natural Resource Conservation, Environmental Protection & Disaster Management. September 4, 2012.

#### **Workshops Attended**

1. A Three Day National Level workshop on Mastering Research Tools; Using SPSS, AMOS, STATA & EndNotes
  2. Two Weeks Training Course on "Use of Nuclear Techniques in Food and Agriculture Research" Nuclear Institute for Food and Agriculture Tarnab Peshawar.
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#### **Research Supervision**

#### **M.phil**

Miss Ilham “Assessment of Concentration levels of heavy metals particularly in Water and Fishes of River Indus in Dera Ismail Khan Region”.

Miss Asma Hameed “Assessment of Physico-Chemical Characteristization and Toxic Heavy Metals in Sewage Contaminated Water, Soil and Vegetables of Peri-urban Agricultural Area of D.I.Khan”.

Miss Shabnum Zafar “Assessment of Physico-Chemical Characteristization and Toxic Heavy Metals in Sewage Contaminated Water, Soil and Vegetables of Peri-urban Agricultural Area of Bannu”.

Ghazanfar Hussain” Spatial Variation of Arsenic Concentration along the Indus River and Its Removal by Using Novel Adsorbent”.

Muhammad Shafeeq “Assessment of Physicochemical Properties and Arsenic Contamination of Ground Water in Dera Ismail Khan Region.

### **PhD**

Two PhD Scholars “Kirn Huma and Yasmeen” under Process.

### **EXPERIENCE**

1. Seven years teaching experience in Private Institution at Peshawar from August 2000 to May 2007.
2. Two years research in M. Phil, Institute of Chemical Sciences, University of Peshawar.  
Fax/Tel. +92-91-9216652 (O).
3. Four years research in Ph.D., Institute of Chemical Sciences, University of Peshawar. Fax/Tel. +92-91-9216652 (O).
4. Three years’ experience as Lecturer in Chemistry in Higher Education Department (Colleges).
5. Since 13, March 2010 in Department of Chemistry, Gomal University Dera Ismail Khan.
6. Member of “Admission Committee” for BS, M.Sc and M.Phil/Ph.D.

### **Administrative Experience**

1. Teacher Staff Proctor, from September 1, 2010 to September 1,2011

2. Warden University Hostels, from March 25, 2010 till date.

### **Professional Achievements**

1. HEC approved Ph.D supervisor
2. Best College Teacher Award
3. Certificate of Appreciation from ACS publications.

### **PUBLICATIONS**

#### **Last Five Years Published Articles**

1. Impact of Sewage Contaminated Water on Soil, Vegetables and Underground Water of Peri-Urban Peshawar, Pakistan. Environmental Monitoring and Assessment. DOI 10.1007/s10661-011-2429-4. (Impact factor = 1.4)
2. Effect of Fluorescent Light Oxidation on Physico-Chemical Properties of Silybum Marianum and Helianthus Annus Oils (Jour. Chem. Soc. Pak. Vol.30, No. 3, 343-347, 2008). (Impact factor = 1.377)
3. Oxidative Stability of Silybum Marianum and Sunflower oils (Jour. Chem. Soc. Pak. Vol.29, No. 3, 213-216, 2007). (Impact factor = 1.377)
4. Effect of Deep Fat Frying on the Physico- Chemical Properties of Silybum Marianum and Sunflower oils (Jour. Chem. Soc. Pak. Vol.28, No. 2, 121-124, 2006). (Impact factor = 1.377)
5. Recreational Water Quality in Western Malaysia- A Case Study of Kuala Woh (Jour. Chem. Soc. Pak. Vol. 29, No. 2, 2007, 131-135). (Impact factor = 1.377)
6. Study of Physico- Chemical Properties of Silybum Marianum seed oil (Jour. Chem. Soc. Pak. Vol. 29, No. 6, 545-548, 2007). (Impact factor = 1.377)

7. Quality Improvement of used fried Silybum Marianum oil by treatment with activated charcoal and magnesium oxide (Jour. Chem. Soc. Pak. Vol. 29, No. 6, 564-568, 2007). (Impact factor = 1.377).
8. Nitrate and Phosphate Pollution in Surface and Ground Water in Western Malaysia (Jour. Chem. Soc. Pak. Vol. 29, No. 4, 315-320, 2007). (Impact factor = 1.377).
9. Heavy Metals Determination in Medicinal Plant Withania Somniferia Growing in Various Areas of Peshawar (Jour. Chem. Soc. Pak. Vol. 30, No. 1, 69-74, 2008). (Impact factor = 1.377).

### **Articles Submitted**

10. Impact Assessment of sewage waste water on sub-urban soil and vegetables in Peshawar, Pakistan. Journal of Environmental Monitoring and Assessment (MS # EMAS-D-13-00444).
11. Conversion of Methane to Methanol on Hexagonal Lattice: Monte Carlo Simulation. "J. Chem. Soc. Pak. (MS # 280313-9851).
12. Multivariate Statistical Analysis of Toxic Heavy Metals in Sewage Water and Soil of Peri-Urban Peshawar, Pakistan. "J. Chem. Soc. Pak. (MS # 160413-9902).

### **REFERENCES**

#### **Ikhtiar khan (Ph.D)**

Professor of Chemistry Institute of Chemical Sciences University of Peshawar Phone: (92-091) 9239416 E-mail: [ikhtiark2@yahoo.com](mailto:ikhtiark2@yahoo.com) www.upesh.edu.pk

#### **Ihsan Ullah (Ph. D)**

Deputy Chief Scientist,  
Head, Food Science Division,

Nuclear Institute for Food & Agriculture,

P. O. Box 446, Tarnab, GT Road, Peshawar, Pakistan

Tel (Office): +92 91 2964245

PABX No. +92 91 2964060-25 & 2964752-75 Ext 223 Fax: +92 91 2962048 Cell: +92 301

8420048, +92 343901323 Tel (Residence): +92 91 5834905 Email: [ihsanullahdrnifa@yahoo.com](mailto:ihsanullahdrnifa@yahoo.com)