Dr. Muhammad Zahid Khan (BCS, Ph. D)

Assistant Professor (BPS-19)

29 January 2022

Network Systems & Security Research Group
Department of Computer Science & Information Technology
University of Malakand, Khyber Pakhtunkhwa, Pakistan

Father's Name: *Habib Ur Rehman*
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: https://scholar.google.com/citations?user=2XosbLsAAAAJ&hl=en

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🏠 OFFICE

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Department of Computer Science & I.T
University of Malakand, Chakdara, 18800, Dir (L)

🏠 HOME

House No. 5, Tormang Malak (Professors' Enclave), University Road,
Ali Mast, Chakdara, Dir (L), Khyber Pakhtunkhwa, Pakistan

🎯 SUMMARY & OBJECTIVES

- *Serving at the Department of Computer Science & I.T - University of Malakand since 2005, having ample experience of teaching at undergraduate and graduate level with good track record of research and publications in academic journals.*

- *To excel in my field through hard work, research, skills and perseverance. To be involved in work, where I can utilize my skills and abilities that effectively contribute to the growth of my organization, and to serve the humanity and my country with the best of my abilities.*

CURRENT

- ❖ Assistant Professor – Department of Computer Science & I.T, University of Malakand (UOM).
- ❖ Group-Leader Network Systems & Security Research Group (NSSRG) – Dept. of CS&IT – UOM.
- ❖ Staff Proctor – Department of CS&IT – UOM.
- ❖ Student Affairs Coordinator – Dept. of CS&IT – UOM.
- ❖ QEC (Quality Enhancement Cell) Coordinator – Dept. of CS&IT – UOM.
- ❖ Member Graduate Study Committee (GSC) – Dept. of Statistics – UOM.

Students Supervision	
PhD (Completed)	01
MS/MPhil (Completed)	09
Total	**10**
PhD (In Progress)	03
MS/MPhil (In Progress)	05
Total	**08**
Co-Supervision	
MS/M.Phil (Completed = 04, In Progress = 06)	
PhD (Completed = 01, In Progress = 01)	
Publications	
Journals Articles	19
Conferences	07
Impact Factor	32$^+$

EDUCATION

- ❖ **Doctor of Philosophy (Ph.D.) in Computer Science (Networking)**   **(2008 – 2013)**
  School of Computing & Mathematical Sciences, Liverpool John Moores University, Liverpool, United Kingdom.
  - **Thesis:** "A Zone-Based Fault Management Architecture for Energy-Efficient Wireless Sensor Networks".
  - **Advisers**: Prof. Madjid Merabti, Dr. Bob Askwith, & Dr. Faycal Bouhfas

- ❖ **Bachelor of Science (BCS) – Computer Science**   **(1999 – 2003)**
  Department of Computer Science, University of Peshawar, Pakistan.
  - **Dissertation**: "Network Timer Server for STC (Students Teacher Center), University of Peshawar".
  - **Supervisor**:   Dr. Sajid Anwar

- ❖ **F. Sc (Intermediate) – Pre-Engineering**   **(1995 – 1997)**
  Edwardes College, Peshawar, Pakistan.
  - **Major**: Mathematics, Physics & Chemistry

PROFESSIONAL PROFILE

My professional experience started from educational institute; I have been enthusiastically involved in:

- Teaching & Research at the Department of CS&IT, Univeristy of Malakand (UOM) – (2005-Present).
- Teaching (undergraduate) Nisar Shahed Degree College Risalpur, Pakistan – (2004-2005).
- Supervision of Final Year Projects (FYP), evaluation & examination.
- Research Supervision of MPhil & PhD students. (2013 – Present)
- Higher Education Commission (HEC) Pakistan, approved supervisor. (2014 – Present)
- TPC and Reviewer of various conferences and research Journals. (2010 – Present)
- Evaluation of MS/Phil & PhD theses, and Viva/Oral Examinations. (2013 – Present)
- Member Graduate Study Committee (GSC) – Dept. of CS&IT & Dept. of Statistics – UOM.
- Departmental Semester Coordinator & Student Affairs Coordinator. (2014 – Present)
- Member, Academic Council – UOM. (2015-2017)
- Deputy Director Administration, UOM. (2017-2018)
- Member Departmental Admission Committees, UOM. (2013-Present)
- Member Purchase Committee, Dept. of CS&IT, UOM. (2013-Present)
- Incharge, IT Network Center, UOM. (Apr. 2014 – Jul. 2014)
- Seminars & Workshop Coordinator, Dept. of CS&IT-UOM. (2013 – Present)
- Member, Final Year Project Committee for Undergraduate projects assessment.
- Focal Person Students Internships & Trainings – Dept. of CS&IT – UOM. (2017 – Present)
- Organizer of events: Conferences, Workshops, & Convocations – UOM. (2013 – Present)
- Information Secretary, Malakand Univeristy Teachers Association. (2015-2019)
- Member Media Cell, UOM.
- Member as Subject Expert in various Selection Boards.

EMPLOYMENT HISTORY

❖ **Assistant Professor / Student Affairs Coordinator**
Dept. of CS&IT – University of Malakand, Pakatan.   Aug. 2013 **–** Present

- Full time faculty at the Dept. of CS&IT, UOM.
- Involved in Academic, Administrative, and Research activities.
- Research in the field of specialization and publish findings in scholarly journals or books.
- MS/MPhil & PhD supervision in my field of research.
- Advising students on academic and related matters.
- Attending departmental and faculty meetings, conferences, workshops and seminars.
- Participating in setting course and degree requirements, curriculum revision, and academic planning.
- Serving on faculty and other committees and professorial boards.
- Discussing programs, records, and teachers with officials to record the academic performance of the department, welfare of students, and performance of individual teachers.
- Organizing and conducting workshops and seminars for students and faculty.
- Carrying out administrative tasks related to the department, such as student admissions, induction programs, and involvement in committees and boards.
- Member Proctorial Board (Staff Proctor) to maintain discipline.

➢ **As a Group-Leader of Network Systems & Security Research Group (NSSRG) – (2013 – Present) the responsibilities are**:

- To promote and strengthen the quality and productivity of the research work of our group.
- Prioritize scientific goals and priority areas in our area of interests.
- Contribute to/suggest strategic research efforts within the section, department and institute.
- Take care of project planning and management; follow up on the progress and completion of research done by the group.
- File documentation of the research done by the group as required by current procedures and regulations.
- Guidance and assistance of prospective students to join NSSRG.
- Obtain external funding – including approval of funding applications authored by group members.
- Supervise that reporting and documentation requirements related to the group activities.
- Coordination of initiatives from the research group members towards the head of the section/dept.
- Preparing and delivering lectures, and conducting tutorials, seminars, and work workshops for research students.

➢ **As a Departmental Coordinator of Quality Enhancement Cell – UOM -   (2020 – Present) responsibilities are:**

- To coordinate with QEC-UOM, and provide the relevant documents and records.
- Keeping track and record of the research outcomes of the faculty of the Department.
- Attestation of research synopsis/proposal and thesis for onward processing to QEC.
- Liaison, preparing, where appropriate, for professional accreditation.

➢ **Ex-Incharge: I.T Center & Web Cell, UOM, responsibilities were: (Apr. 2014 – Jul. 2014)**

- Supervision of on-campus network (LAN, WAN & CCTV System) in liaison with Network Administrator.

- Supervision of web-related activities and to keep the Univeristy website updated.
- To propose recommendations and requirements, needful for the improvement of the existing networking infrastructure and Web site development.

❖ Deputy Director Administration (Additional Charge)
University of Malakand   Mar. 2017 **–** Jan. 2018

- Was responsible for the security, and general-wellbeing of the campus.
- Coordination with Law Enforcement Agencies and Govt. Administration.
- Member of purchase and procurement committees.
- Public relations and community liaison activities.
- Coordination and organization of official events in collaboration with Govt. officials.

❖ Lecturer (BPS-18)
Department of CS&IT – Univeristy of Malakand   Nov**.** 2005 **–** Aug. 2013
[Study Leave for PhD: Dec. 2007 to Aug. 2013]

- Full time faculty at the Dept. of CS&IT, UOM.
- Involved in Teaching, Administrative, and Research activities (PhD research).
- Preparing and delivering lectures, and conducting tutorials, seminars, and laboratory sessions.
- Supervision of Final Year Students' Projects.

❖ Lecturer (BPS-17)
Nisar Shaheed Degree College, Risalpur.   Aug. 2004 **–** Oct. 2005

- Full-time teaching at Intermediate and undergraduate level.
- Designing, preparing, and developing teaching materials.
- Computer Lab and Network supervision of NSDC Risalpur.
- Also served as Assistant Warden at the Boys Hostel, NSDC Risalpur.

PUBLICATIONS

HEC (Higher Education Commission of Pakistan) Recognized Publications (19):

1. Muhammad Asim, Hala Mokhtar, **Muhammad Zahid Khan**, " An energy efficient management scheme for wireless sensor networks," International Journal of Critical Computer-Based Systems, Vol.6, pp.133-153, September, 2015. **(Scopus Indexed, HJRS Y Cat)**. https://www.inderscienceonline.com/doi/abs/10.1504/IJCCBS.2015.073541

2. S. Abbas, M. Faisal, H. U. Rahman, **M. Z. Khan**, M. Merabti, and A. u. R. Khan, "Masquerading Attacks Detection in Mobile Ad Hoc Networks," IEEE Access, pp. 55013-55025, 2018. **(W Cat., IF 4.098).** https://ieeexplore.ieee.org/abstract/document/8476525

3. G. Mehmood, **M. Z. Khan**, H. U. Rahman, and S. Abbas, "An Efficient and Secure Session Key Establishment Scheme For Health-Care Applications In Wireless Body Area Networks," Journal Of Engineering And Applied Sciences, vol. 37, no. 1, 30, Jun. 2018. **(Scopus, X Category).** https://researcherslinks.com/current-issues/AN-EFFICIENT-AND-SECURE/31/5/3065

4. S. Abbas, M. Haqdad, S. Begum, and **M. Z. Khan**, "Detecting Sybil Attacks Using Heterogeneous Typologies in Static Wireless Sensor Network," Journal of Theoretical and Applied Information Technology, vol. 96, no. 15, 2018. **(Scopus indexed, X Cat)**.
    http://www.jatit.org/volumes/Vol96No15/17Vol96No15.pdf

5. A. Qayyum, H.U. Rahman, **M. Z. Khan**, and M. Faisal, "A New Energy-Efficient Cluster-Head Selection (NEETCH) Technique To Increase Wireless Sensor Network's Lifetime," Journal of Information Comm. Tech. and Robotic Appl., jictra, vol. 9, no. 2, pp.52-61, Dec. 2018. **(X Category)**.
    http://jictra.com.pk/index.php/jictra/article/view/108

6. M. Z. Khan**, M. Z. khan**, H. U. Rahman, and M. Faisal, "Performance Comparison of Structured Based Data Aggregation Schemes in Wireless Sensor Networks," jictra, vol. 10, no. 1(2019), p. 13, Jun. 2019. **(X Category)**.
    http://jictra.com.pk/index.php/jictra/article/view/140

7. M. Faisal, S. Abbas, H. U. Rahman, **M. Z. Khan**, and A. U. Rahman, "An Analysis of DDoS Attacks on the Instant Messengers," Security and Communication Networks, vol. 2019, p. 8, 2019, Art. no. 1751285. **(W Cat., IF 1.81)**
    https://www.hindawi.com/journals/scn/2019/1751285/Article ID 1751285

8. G. Mehmood, **M. Z. Khan**, S. Abbas, M. Faisal, and H. U. Rahman, "An Energy-Efficient and Cooperative Fault-Tolerant Communication Approach for Wireless Body Area Network," IEEE Access, pp. 69134-69147, 2020. (**W Cat., IF 4.089)**.
    https://ieeexplore.ieee.org/abstract/document/9058721

9. G. Mehmood, **M. Z. Khan**, A. Waheed, M. Zareei, and E. M. Mohamed, "A Trust-Based Energy-Efficient and Reliable Communication Scheme (Trust-Based ERCS) for Remote Patient Monitoring in Wireless Body Area Networks," IEEE Access, pp. 131397-131413, 2020. **(W Cat., IF 4.640)**.
    https://ieeexplore.ieee.org/abstract/document/9133561

10. M. N. Khan, H. U. Rahman, M. A. Almaiah, **M. Z. Khan**, A. Khan, M. Raza, M. Al-Zahrani, O. Almomani, and R. Khan, "Improving Energy Efficiency with Content-based Adaptive and Dynamic Scheduling in Wireless Sensor Networks," IEEE Access, vol. 8, pp. 176495-176520, 2020. (**W Cat., IF 4.089**).
    https://ieeexplore.ieee.org/abstract/document/9205888

11. S. Abbas, M. Haqdad, H. U. Rahman, **M. Z. Khan**, A. Khan, and Atta Ur Rehman Khan, "Survivability Analysis of Manet Routing Protocols Under DoS Attacks," KSII Transactions on Internet and Information Systems, 2020. Pages: 3639-62, Vol. 14, Issue. 9. **(W Cat., IF 0.711)**.
    http://itiis.org/digital-library/23853
    https://www.koreascience.or.kr/article/JAKO202030161655495.page

12. H. Mukhtar, H. Ahmad, **M. Khan,** and N. Ullah, "Analysis and Evaluation of Covid-19 Tools for Health Professionals: Challenges and Opportunities," Healthcare 2020 Special Issue COVID-19 Pandemic: Challenges Facing the Health System, vol. 8, no. 4, p. 466, 2020. **(W Cat., IF 1.916)**
    https://www.mdpi.com/2227-9032/8/4/466

13. M. N. Khan, H. U. Rahman, and **M. Z. Khan**, "An Energy Efficient Adaptive Scheduling Scheme (EASS) for Mesh Grid Wireless Sensor Networks," Journal of Parallel and Distributed Computing, vol. 146, pp. 139-157, 2020/12/01/ 2020. **(W Cat., IF 2.296)**.
    https://www.sciencedirect.com/science/article/abs/pii/S0743731520303476

14. F. Ullah, **M. Zahid Khan**, M. Faisal, H. U. Rehman, S. Abbas, and F. S. Mubarek, "An Energy Efficient and Reliable Routing Scheme to enhance the stability period in Wireless Body Area Networks," Computer Communications, vol. 165, pp. 20-32, 2021/01/01/, 2021. **(W Cat., IF 3.167)**.
    https://www.sciencedirect.com/science/article/abs/pii/S0140366420319654

15. S. Khan, I. Sharma, M. Aslam, **M. Z. Khan**, and S. Khan, "Security Challenges of Location Privacy in VANETs and State-of-The Art Solutions: A Survey," Future Internet, vol. 13, no. 4, p. 96, 2021. **(X Cat., HJRS Y).**
https://www.mdpi.com/1999-5903/13/4/96

16. Z. Khan, **M. Zahid Khan**, S. Ali, I. A. Abbasi, H. Ur Rahman, U. Zeb, H. Khattak, and J. Huang, "Internet of Things-Based Smart Farming Monitoring System for Bolting Reduction in Onion Farms," Scientific Programming, vol. 2021, p. 7101983, 2021/07/24 2021. **(W Cat., IF 1.025, HJRS X).**
https://www.hindawi.com/journals/sp/2021/7101983/

17. G. Mehmood**, M. Z. Khan**, M. Fayaz, M. Faisal, H.-U. Rahman, and J. Gwak, "An Energy-Efficient Mobile Agent-Based Data Aggregation Scheme for Wireless Body Area Networks," Computers, Materials \& Continua, vol. 70, no. 3, pp. 5929--5948, 2022. **(W Cat., IF 3.772)**
http://www.techscience.com/cmc/v70n3/44971

18. Abdul Rehman Javed, Muhammad Umar Sarwar, Thar Baker, Muhammad Asim, **Muhammad Zahid Khan**, "Towards Explainable AI-empowered Human Activity Recognition and Cognitive Health Assessment", Soft Computing Springer, 2021. **(In Press, W Cat., IF 3.576).**
https://www.springer.com/journal/500

19. F. Ullah, **M. Z. Khan**, G. Mehmood, M. S. Qureshi, and M. Fayaz, "Energy Efficiency and Reliability Considerations in Wireless Body Area Networks: A Survey," Computational and Mathematical Methods in Medicine, vol. 2022, p. 1090131, 2022/01/17 2022. **(W Cat., IF 2.238).**
https://www.hindawi.com/journals/cmmm/2022/1090131/

Non-HEC Recognized Journals (05):

1. **M. Z. Khan** and I. M. Khan, "A Research Based Review of Wireless Sensor Networks," Annals. Computer Science Series, vol. 9, p. 16, Dec. 2011.
https://anale-informatica.tibiscus.ro/?page=02_rezumate&link=v9f2

2. **K. M. Zahid,** A. Muhammad, and K. M. Ijaz, "An Overview of Hierarchical Schemes for Fault Management in Wireless Sensor Networks," Journal of Computer Science and Control Systems (JCSCS), vol. 5, no. 1, pp. 43-48, May. 2012.
https://electroinf.uoradea.ro/index.php/jcscs.html

3. B. S. Umar and **K. M. Zahid**, "Implementation of Signal Processing in Stereo-Scopic Active Sonar Using Heterodyne System," Journal of Electrical and Electronics Engineering (JEEE), vol. 5, no. 2, p. 6, Oct. 2012.
https://electroinf.uoradea.ro/index.php/jeee.html

4. **M. Z. Khan**, M. Asim, and I. M. Khan, "Centralized Schemes of Fault Management in Wireless Sensor Networks," GESJ: Computer Science and Telecommunications vol. 4, pp. 66-75, Dec. 2012.
https://gesj.internet-academy.org.ge/en/list_artic_en.php?b_sec=comp&issue=2012-12

5. **M. Z. Khan**, "Fault Management in Wireless Sensor Networks," GESJ: Computer Science and Telecommunications, vol. 1, no. 37, p. 15, Apr. 2013.
http://gesj.internet-academy.org.ge/en/list_artic_en.php?b_sec=comp&issue=2013-03

Conference Papers (07)

1. **M. Z. Khan**, M. Merabti, and B. Askwith, "Design Considerations for Fault Management in Wireless Sensor Networks," in Proc. of the 10th Annual PGNET'09 Conference, LJMU, Liverpool, UK, June 2009, pp. 3-9.

2. **M. Z. Khan,** M. Merabti, B. Askwith, and F. Bouhafs, "A Fault-Tolerant Network Management Architecture for Wireless Sensor Networks," presented at the 11th Annual PGNet 2010 Conference, LJMU, Liverpool, UK, June 2010.

3. **M. Z. Khan**, B. Askwith, F. Bouhafs, and M. Asim, "Limitations of Simulation Tools for Large-Scale Wireless Sensor Networks," presented at the IEEE Workshops of International Conference on Advanced Information Networking and Applications (WAINA), Biopolis, Singapore, March 2011.

4. M. Asim, Hala. Mokhtar, **M. Z. Khan**, and M. Merabti, "A Sensor Relocation Scheme for Wireless Sensor Networks," presented at the IEEE Workshops of International Conference on Advanced Information Networking and Applications (WAINA), Biopolis, Singapore, March 2011.

5. I. Khan, **M. Z. Khan,** N. Jabeur, and H. Mokhtar, "An Overview of the Impact of Wireless Sensor Networks in Medical Healthcare," presented at the 1st International Conference on Computers and Information Technology (ICCIT'2012), Al-Madinah Al-Munawwarah, Saudi Arabia, March 2012.

6. I. M. Khan, **M. Z. Khan**, H. Mokhtar, and M. Merabti, "Enhancements of the Self-Detection Scheme for Boundary Recognition in Wireless Sensor Networks," presented at the 4th Int. Conference on Development in eSystem Engineering (DeSE'11), Dubai, December 2011.

7. **M. Z. Khan,** M. Merabti, B. Askwith, and F. Bouhafs, "A Zone-Based Hierarchical Framework and clustering Scheme for Energy-Efficient Wireless Sensor Networks," presented at the IFIP and IEEE: The Wireless Days 2012, Dublin, Ireland, Nov. 2012.

General Articles (01):
1. GTSNetS Simulator Installation Guide Under Ubuntu -Linux (Modified Version of Thomas Watteyne's Document).

RESEARCH ACTIVITIES

Research Interest Areas:
- Wireless Sensor Networks (WSNs),
- Network Management & Fault Management in WSN
- Wireless Body Area Networks (WBAN)
- Internet of Things (IoTs)
- Cyber Security
- Cloud and Fog Computing

Students Supervision	
PhD (Completed)	01
MS/MPhil (Completed)	09
Total	**10**
PhD (In Progress)	03
MS/MPhil (In Progress)	05
Total	**08**
Co-Supervision	
MS/M.Phil (Completed = 04, In Progress = 06) PhD (Completed = 01, In Progress = 01)	
Publications	
Journals Articles	19
Conferences	07
Impact Factor	32^+

MS/M.Phil Thesis & Projects (Completed):

1. Saifullah, "An Optimized Fuzzy Logic Based Ant-Hocnet Routing Protocol for Swarm of UAVs in FANETs," MS Thesis, Virtual Univeristy Islamabad, Pakistan, **2020**.

2. Z. Khan, "IoT Based Smart Farming Monitoring System for Bolting Reduction in Onion Farms," MPhil Thesis, Dept. of Comp. Sci. & I.T, University of Malakand Chakdara, Pakistan, **2020**.

3. M. Z. U. Haq, "An Adaptive Topology Management Scheme to Maintain Network Connectivity in Wireless Sensor Networks," M. Phil Thesis, Department of Computer Science & I.T, University of Malakand Chakdara, Pakistan, **2018**.

4. F. Khaliq, "An Early Warning System for Forest Fire Detection based On Wireless Sensor Network," M.Phil Thesis, Department of Computer Science & I.T, University of Malakand Chakdara, Pakistan, **2018**.

5. M. Z. Khan, "Performance Comparison of Structured Based Data Aggregation Schemes in Wireless Sensor Networks," M. Phil Thesis, Department of Computer Science & I.T, University of Malakand Chakdara, Pakistan, **2018**.

6. A. Subhan, "An Improved Fault Recovery Scheme to Achieve Fault-Tolerance in Resource-Constrained Wireless Sensor Networks," M.Phil Thesis, Department of Computer Science & I.T, University of Malakand Chakdara, Pakistan, **2018**.

7. F. Ullah, "An Energy-Efficient and Reliable Routing Scheme to Enhance Stability Period in Wireless Body Area Networks," M.Phil Thesis, Department of Computer Science & I.T, University of Malakand, Chakdara, Pakistan, **2018**.

8. N. Begum, "An Efficient Sybil Attack Detection Scheme for Wireless Ad hoc Networks," M.Phil Thesis, Department of Computer Science & I.T, University of Malakand, Chakdara, Pakistan, **2017**.

9. S. Begum, "Topology Based Prevention of Sybil Attack in Wireless Sensor Networks," M.Phil Thesis, Department of Computer Science & I.T, University of Malakand, Chakdara, Pakistan, **2017**.

10. W. Hussain, "Improving the DSR Protocol to Minimize Link Breakages in Mobile Ad Hoc Networks," M.Phil Thesis, Department of Computer Science & I.T, University of Malakand, Chakdara, Pakistan, **2017**. (Co-Supervised).

Ph. D Thesis:

11. G. Mehmood, "Energy-Efficient and Fault-Tolerant Solution to Ensure Reliability of Wireless Body Area Networks," PhD Thesis, Department of Computer Science & Information Technology, University of Malakand, Chakdara, Pakistan, **March 2021**.

1. Abdul Malik (Ph. D in Progress- Thesis Write-up).

2. Muhammad Fawad (Ph. D in Progress, Proposal accepted, ASRB done)

TEACHING

Taught Courses:
- Information & Communication Technology
- Data Communication and Networks
- Advance Networking
- Advanced Topics in Wireless Networks
- Network Strategies
- Operating Systems
- Artificial Intelligence
- Professional Ethics
- Information Security
- E-Commence
- Computer Architecture

Teaching Interests:
- Network Security
- Cyber Security
- Internet of Things
- Research Methodology

TRAININGS, WORKSHOPS & SEMINARS

Post Ph. D:
- A One-day awareness seminar on "Cyber Crimes, Digital Forensics and Cyber Security" held at UET Peshawar. [22nd Jan. 2022] – PARTICIPANT.
- Certificate of Participation NCEAC/HEC Online Webinar on Impact of Quality of Computing Education During Covid-19 and Improvement Strategies [Mar. 30 2021].
- IEEE Xplore Digital Library Hands-On Training. [UOM, 27-28 Nov. 2019] Chief Organizer & Participant.
- 1ST Int. Conference on Software Eng., and Computing Disciplines held at Univeristy of Swabi – [13-19 Nov. 2019] – Participated as Program Chair.
- Start-up Grind Global Entrepreneurship Week. [21 Nov. 2019] - Organizer & Participant.
- Capacity Building Training of HEIs/HEC (Higher Education Commission). [Islamabad, 27-30 April, 2015].
- A four-day training organized by IMSciences Peshawar under the TESP HEC.
- TurnitIn Software – One Day training workshop Organized by Quality Enhancement Cell, UOM. [March, 2017].
- Two-days Training Workshop of Administrative Staff On "Administrative & IT Skills". [Sep. 2015] - organized by QEC, University of Malakand.

During Ph. D:
- Time Management, Change Management
- Critical Analysis & Thinking, Scientific Writing, Academic Writing
- Report writing, effective vocal skills, presentation skills, effective reading etc.

SEMINARS & TALKS DELIVERD

- Orientation Session for BCS/BIT Freshers" – Dept. of CS&IT- University of Malakand. [Oct., 2019]
- "Viva Survivor for MPhil & Ph. D Students" – Dept. of CS&IT – University of Malakand. [May, 2018]'
- "Presentation Preparation" – Dept. of CS&IT – University of Malakand. [Apr. 2018}
- "Final Year Project (FYP), What to Do and How to Do" – University of Malakand. [April. 2018]
- "Professional Ethics", at Govt. Post Graduate College – Dargai, Malakand - [May, 2017].
- " Key to success: Common Exam Mistakes, and How to Overcome them" at the Department of CS&IT, University of Malakand – [April, 2017].
- "Final Year Project in CS&IT and SE: How to Master the Beast!" at the Dept. of CS&IT, University of Malakand - [March 2016].
- "Don't Work Hard, Work Smart" - [May 2014] at Dept. of CS&IT, University of Malakand & Dept. of Education, University of Malakand - [May 2014].
- "Common Exam Mistakes and How to overcome them" –at the Dept. of CS&IT, University of Malakand, [March – 2014].
- "Networking and System Configuration" –to the Administration Staff Training Workshop, at University of Malakand - [March – 2015].

AWARDS AND ACHIEVEMENTS

- Prototype of the Project title "An IoT based Smart Farming Monitoring System for Bolting Reduction in Onion Farms" got 2nd Position in Science Fair -2019 at Mingora Swat. Also selected for exhibition at Peshawar Science Fair.
- Chaired, IEEE International conference session.
- Reviewer, International Journals and Conferences.
- Merit Scholarship for the last two Semester in BCS (Hons) awarded by Department of Computer Science, University of Peshawar – [2002].
- Ph.D. Scholarship, worth (60,000 GBP) under Faculty Development Program of University of Malakand, sponsored by Higher Education Commission of Pakistan – [2008].

REFERENCES

- **Dr. Engr. Sami Ur Rehman**
  Assistant Professor
  Department of Computer Science & I.T
  University of Malakand, Chakdara Dir (L)
  e-mail: srahman@uom.edu.pk, softrays@hotmail.com
  Tel: +92-342-0950826

- **Dr. Robert Askwith**
  Senior Lecturer Network Systems & Security
  School of Computing & Mathematical Sciences
  Liverpool John Moores University, UK.
  Email: R.J.Askwith@ljmu.ac.uk
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