



Objectives: Effective Academics

Current Activities: Academics and Consultation

Email: kmustafa@jmi.ac.in (Off) | [kmfarooki@gmail.com](mailto:kmfarooqi@gmail.com)

Fields of Interest: Info-Sec, e-Learning & Research Methods

Higher Education: PhD-MTech (IIT) & MSc (JMI)

University Employment: Since 1997 (Professor, 2008)

Foreign Assignments: 02(Long Term) & 01(Short Term)

International Visits: 05 (USA, KSA, Yemen, Jordan & Nepal)

Professional Memberships: International (9) & National (4)

Academic Committee Memberships: 11

Expert Committee Memberships: 20+

Administration: HoD (~ 08 Yrs) & Coordinator-CIT(03 Yrs)

Research Project: Software Security (03 Years , MIT-GoI)

Books (Alpha Sc. & Narosa): Two (+One Chinese Edn)

Chapters Authoring/Vetting: 6

Courses Taught: Pre-PhD (02) & PG/UG (19)

Events Organization: Conferences/Symposia (09)

Publications (Journals & Proceedings): 120+

Google Scholar: <http://goo.gl/YJUkB>

PhD Supervision: 14 Awarded, 07 Continue)

PhD Theses Evaluations: 21

PG Supervision: 60+, MCA/PGDCA (2-3/Session, since 2000)

Select Participations: More than 20 in Conferences etc

Select Lectures: More Than 55+as Keynote, Guest etc

Faculty Development Courses: 4

Manuscripts and Plans: 10+ of Different Nature

Doctoral Research: IITD (Computer Assisted Instruction)

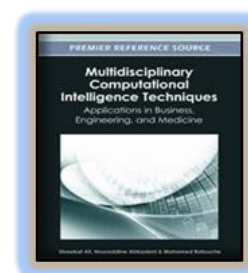
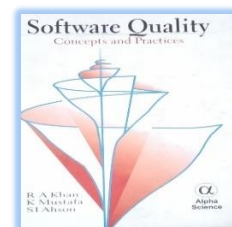
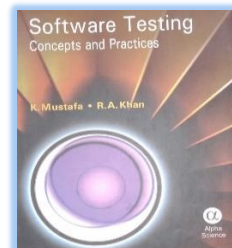
Projects Undertaken: Pre-PhD(01), M.Tech. (02) & M.Sc.(01)

Fellowship / Scholarships: Ph.D. and UG Level

Personal Details: Nationality, Hobbies etc

Esteemed References: 04

Select 'Books Prescriptions / Citations': 25+



Objectives	<ul style="list-style-type: none"> ▶ Effective Academics <ul style="list-style-type: none"> ○ Curricular Innovations and Development ○ Hi-tech Learning Environments
Current Activities	<ul style="list-style-type: none"> ▶ Academics and Consultation <ul style="list-style-type: none"> ○ Teaching and Research: Guidance & Supervision ○ Talks, Writing, Reviews, Meetings, Seminar and Evaluation
Fields of Interest	<ul style="list-style-type: none"> ▶ Information Security ▶ E-Learning ▶ Research Methodology
Education	<ul style="list-style-type: none"> ▶ PhD & MTech (IIT Delhi) ▶ MSc (JMI Delhi)
University Employment	<ul style="list-style-type: none"> ▶ Professor (Since Oct-2008) & AssoProf & Reader (2000-8): Jamia Millia Islamia (Central University), India ▶ Lecturer (1997-2000): Jamia Hamdard (Deemed University), India ▶ Visiting Faculty (Sep-1995 to Oct-2000): Jamia Millia Islamia, New Delhi, India
Foreign Assignments	<ul style="list-style-type: none"> ▶ Professor (2⁺ Yrs: TU-KSA) ▶ AssoProf (3 Yrs:AHU-JO,AU-YE,KFU-KSA) ▶ Consultant (Sep13-19, 1994): World Bank Funded Project on Curriculum Development, Tribhuvan University, Kathmandu, Nepal
International Visits	<ul style="list-style-type: none"> ▶ USA: 2009 ▶ Saudi Arabia: 2006-7, 2014-17 ▶ Jordan:2004-5 ▶ Yemen:2005-6
Professional Memberships	<ul style="list-style-type: none"> ▶ Life Member <ul style="list-style-type: none"> ○ Indian Society for Technical Education (ISTE), India ○ Centre for Education Growth and Research (CEGR), India ▶ Executive Member <ul style="list-style-type: none"> ○ IAASE (International Association of Academicians connecting Scholars, Scientists and Engineers), www.iaasse.org ▶ Member: (No: 164631 since Jan04,2016) International Association of Engineers and Computer Scientists, http://www.iaeng.org/membership.html ▶ Sr. Member: International association of Computer Science & Information Technology (IACSIT) -NO.: 80349250 http://www.iacsit.org/ ▶ Member <ul style="list-style-type: none"> ○ European Alliance for Innovation (EAI) - http://eai.eu/ ○ Institute for Computer Sciences, Social Informatics and Telecommunications (ICST) - https://eai.eu/#!/about/partners ○ InfoPier - https://www.infopier.sg/ ○ ACM (PPMember No. 0492416:2011-13) ○ IT History Society. http://www.ithistory.org/membership/ ○ Society for Scientific Exploration: (Joined: April 2020) https://www.scientificexploration.org/users/kmfarooki-khurram-mustafa ▶ Associate Member <ul style="list-style-type: none"> ○ ACM-CSTA, New York, USA (Membership Id-41107606): https://csteachers.org/ ○ eLearning Guild, USA

<p>Academic Committee Memberships</p>	<ol style="list-style-type: none"> 1. UGC-SAP Advisory Committee, North Maharashtra University, Jalgaon, India (2018-23) 2. Academic Council, BSA Crescent University, Chennai (July-17 to June-19) 3. UGC-SAP Advisory Committee, VNSG University, Surat, Gujrat, India (2011-16) 4. Board of Studies: Department of Computer Science, MANU University, Hyderabad, India (2011-14, 2014-17) 5. School Council, BBA University, Lucknow, India (Dec'2010-13) 6. Board of Studies: Department of Computer Science & Informatics, CUHP, Dharmshala, HP (2012-14) 7. Anjuman (Court-JMI) w.e.f. Oct 12, 2009-12 8. Academic Council - Jamia Millia Islamia, New Delhi (2007-14) 9. Faculty Committee - Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi(2007-14, 2017-cont) 10. Board of Studies - Department of Computer Science, Jamia Millia Islamia, New Delhi (Since 2000)t) 11. Committee of Studies – FTK CIT, JMI (2009-12)
<p>Expert Committees</p>	<ol style="list-style-type: none"> 1. Editorial Board: Journal of Applied Information Science, http://www.publishingindia.com/Research/ProductInfo/Editorial-Team.aspx?InfoID=71 2. Editorial Board (Dec2016): Software Engineering (Int. Journal), SciencePG- http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=237 3. International Advisory Member & Program Committee Chair, http://e2ce.xyz/Chairs-Co-Chairs/ 29-30 April, 2016 4. Reviewers Board: J of Systemics, Cybernetics and Informatics; ISSN: 1690-4524 (Online), IWIEEM 2017 5. UGC: Minor Projects Financial assistance Screening, 2014 6. UGC Expert Committee: SAP Screening, July 23, 2014 7. Advisor-Screening Committee, Sr. Scientist(Computer), Agricultural Scientists Recruitment Board; May 09-10, 2013 8. PRSG (Research Project-BHU), MIT, Government of India (2012) 12. Board of Studies: Department of Computer Science & Informatics, CUHP, Dharmshala, HP (2012-14) 13. Reviewer: Tata McGraw Hill Publication Computer Science Books, 2011 14. Reviewer: SMCC-12-05-0245, IEEE Transactions on Systems, Man, and Cybernetics-- Part C: Applications and Reviews, Aug 2012 15. Reviewer: International Journal of Information Technology”, ISSN 0973-5658 16. Editorial / Advisory Board: Journal of IT and Organizations, Informing Science Institute, USA: http://jiito.org/editorialreviewboard.html 17. Editorial / Advisory Board: Journal Computing and Applications, Pakistan: http://www.iacse.org/ebjca.html 18. Editorial / Advisory Board: Lingaya’s Journal of Professional Studies, India 19. Technical Programme, 9th International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness, 11th – 12th Jan, 2013 at Gautam Buddha University, Greater Noida, NCR, Delhi 20. PC Member / Review Committees: NGCT-2015, IWIEEM2016, Indiacom 2016, SPIN 2016, NGCT-2015 ,SoCPaR 2015, SPIN 2015, cason2014, ICISO2014, ISDA 2014, NaBIC 2014, SoCPaR 2014, WICT 2014, ICCPCT-2013, SECS-2013: SECS-2014, ICCPCT-2013, SECS-2013, WICT 2013, CSNT 13, ICCPCT-2013, iccct-2012, SocProS 2012, WICT 2012, AET-ACS2011,CSNT 2011, ICCCT-2011, ICSCA 2011, IICAI-1, WICT 2011, CICN 2011, ICCCT-2010
<p>Administration</p>	<ul style="list-style-type: none"> ▶ Head: Department of Computer Science, Jamia Millia Islamia, Oct 31, 2000-to-Sep 31, 2001 & Aug 08, 2007-to- Jan 17, 2013 (~ 6.5 Years) ▶ Head: Department of Computer Science, Al-Ahgaff University, Al-Mukalla, YEMEN, Aug 2005 to Jul 2006 (~1 Year) ▶ Coordinator: Centre for Information Technology (Additional responsibility), Jamia Millia Islamia; Since Aug 01, 2002 to Sep 22, 2004 (2+ Years) ▶ Offg. Head: Department of Computer Science, Jamia Millia Islamia, for over a month period each during academic sessions 2001, 2002 and 2003. ▶ Superintendent of Examinations: Department of computer Science during Academic Sessions of year 2007-Date and 2000-03, 2007-12
<p>Research Project</p>	<ul style="list-style-type: none"> ▶ Development of a Security Assessment Framework for Object Oriented Software

	<ul style="list-style-type: none"> ○ Role: Chief Investigator, Duration: 3 Years ○ Funding: Ministry of ICT, Govt. of India (USD 68000)
Books	<ol style="list-style-type: none"> 1. Mustafa K. & Khan R. A. (2007). Software Testing: Concepts and Practices. Narosa Publication, ISBN: 1-84265-367-9, http://www.narosa.com/ <ul style="list-style-type: none"> • International Edition: Alpha Science, Oxford UK: http://www.alphasci.com/ 2007 (Reprint, 2009) • Chinese Translated Edition (2009).-“Software Testing: Concepts and Practices. 2. Mustafa K., Khan R. A. & Ahson S. I. (2006). Software Quality: Concepts & Practices, Narosa Publication, ISBN: 8173197229, http://www.narosa.com/ <ul style="list-style-type: none"> • International Edn, Alpha Science, Oxford UK: http://www.alphasci.com/
Chapters	<ol style="list-style-type: none"> 1. Anwer F., Nazir M., Mustafa, K. (2017). Security Testing (Chapter). In: Mohanty H., Mohanty J., Balakrishnan A. (eds) Trends in Software Testing. Springer, Singapore. (ISBN No. 978-981-10-1414-7) 2. Mustafa, K. (2013). Chapter Review and Vetting of ‘Emerging Technologies’, ICAI Information Security Handbook, New Delhi, India 3. Jabin, S. & Mustafa K. (2012). A Survey of Semantic Web Based Architectures for Adaptive Intelligent Tutoring System (Chapter). In: Shawkat Ali et al. (2012). Multidisciplinary Computational Intelligence Techniques: Applications in Business, Engineering, and Medicine. IGI Global, ISBN 978-1-4666-1830-5 (hardcover) -- ISBN 978-1-4666-1831-2 (ebook) -- ISBN 978-1-4666-1832-9 (print & perpetual access) 4. Mustafa, K. (2010). Educational Technology (Chapter). In: Siddiqui. A.(2010). Modern Educational Technological Aids. (Eds). tar Siddiwui, , Faculty of Education, Jamia Millia Islamia, New Delhi, India 5. Mustafa K. (2003). E-learning pedagogy: The Theoretical Support (Chapter), In Shah B.(Ed): Information Technology and Education: Vision and Prospects, Kitab Mahal, 2003, xiv, 305 p, tables, figs, ISBN : 81-225-0281-4 6. Urdu Translation and Vetting two Handbooks and Vetting of one handbook, MANUU for Certificate in Computing (CIC) Curriculum, 1999-2000
Courses Taught	<ol style="list-style-type: none"> 1. Multimedia with Flash (PG:2019-20) 2. Research Methods in Computer Science (PhD-2010-14,2018-19) 3. E-Business Systems (PG:2019) 4. IT Act and Cyber Security (PG:2017) 5. Operating Systems Configuration and Use (UG:2016) 6. IT Audit and Control (UG:2016) 7. Enterprise Architecture (UG:2015) 8. Frontiers in Computer Science (PhD:2014) 9. Business Information Systems (PG:2007, 08, 09,10, 11, 12, 2018-19) 10. Information Security (PG/UG:2009, 2012,13,14, 15,16,17) 11. Human Computer interaction (UG:2006-07) 12. Knowledge Management (UG:2006-07) 13. Theory of Computation (PG:1998, 2012, 2017-18) 14. Multimedia Applications (PG:2001-03, 2007-09, 2013,14,17) 15. Software Testing and Quality Assurance (PG:2002-04) 16. Analysis and Design of Algorithms (PG:1995-97, 2000-02, 2006) 17. Software Engineering (PG:2002-03, 2006-07) 18. Operating Systems (PG:1995-98, 2004-05) 19. Math. Foundations of Computer Science (PG:1997-99, 2004-05,2013) 20. Systems Analysis and Design (PG:1997, 2005-07) 21. Data Structures and Program Design (PG:1997-99)
Event Organization	<ol style="list-style-type: none"> 1. Chairman, Organizing Committee: Workshop on Bioinformatics Infrastructure and Frontiers (BIF'12), March 13-14, 2012 2. Chairman, Organizing Committee, Extension Lecture & Student’ Events, Oct 29, 2011, Department of Computer Science, JMI, Delhi 3. Chairman, Organizing Committee, A Symposium on R & D in Computer Science, March 12, 2011, Department of Computer Science, Jamia Millia Islamia, New Delhi 4. Chairman, Organizing Committee, HOP-2011: An IT Carnival, March 11, 20011; Department of Computer Science, JMI, New Delhi 5. Chairman, Organizing Committee, BIF Workshop’ 2010, March 3-4, 2010, Department of Computer Science, Jamia Millia Islamia, New Delhi 6. Convener, NSIF’08: Natural Science InfoFest’ 2008, March 04-06, Jamia Millia Islamia, New Delhi, India

Publications

7. Chair, VWSS-08: The Validation Workshop on Software Security, June 21, 2008, Jamia Millia Islamia, New Delhi, India
8. Convener, WITSA2003: The National Workshop on IT Services and Applications, Feb 27-28,2003 Jamia Millia Islamia, New Delhi, India
9. Coordinator, EBB-2003: Conference on Education-Breaking the Barriers, March 27-29, 2003 at Jamia Millia Islamia, New Delhi, India
1. **Mishra A. D. and Mustafa K. (2020). Security Requirements Specification: A Formal Methods Perspective. Proceedings-7th International Conference on Computing for Sustainable Global Development (INDIACom), New Delhi:113-117, doi: 10.23919/INDIACom49435.2020.9083691**
2. Shahjad & Mustafa K. (2019). A Trend Analysis on Learning Apps Research. Advances in Computer Science and Information Technology (ACSIT).p-ISSN: 2393-9907; e-ISSN: 2393-9915; 6(3): 121-128. <http://www.krishisanskriti.org/Publication.html>
3. Anwar M. Nadeem, Nazir, M., & Mustafa, K ,(2019). ‘A Systematic Review and Analytical Evaluation of Security Requirements Engineering Approaches’, Arabian Journal for Science and Engineering (2019): 1-25. Springer Publications, Vol. 44, Issue 11, ISSN: 2191-4281 (Impact factor: 1.518, SCIE, Scopus indexed)
4. Anwer F., Nazir M., Mustafa K. (2019) Testing Program Crash Based on Search Based Testing and Exception Injection. In: Nandi S., Jinwala D., Singh V., Laxmi V., Gaur M., Faruki P. (eds) Security and Privacy. ISEA-ISAP 2019. Communications in Computer and Information Science, vol 939. Springer, Singapore
5. Rehman, H., Nazir, M., Mustafa, K., (2018). Comfort Level Security – A Multi-Factor Authentication Framework. International Journal of Applied Engineering Research,13(17): 13166–13177. ISSN: 0973-4562.
6. Rehman, H., Khan, U., Nazir, M., & Mustafa, K. (2018), Strengthen the key Safety of Bitcoin: A Graded Span Based Key Partitioning Mechanism, presented in International Conference on Advances in Science & Technology (ICAST -2018) published in Springer-International Journal of Information Technology (IJIT). Vol. 2, ISSN: 2511-2112.
7. Rehman, H., Yafi, E., Nazir, M., & Mustafa, K. (2018), Security assurance against cybercrime: Ransomware, Presented in International Conference on Intelligent Computing & Optimization (IOC-2018) in Pattaya, Thailand, and the extended version of the paper is published by Springer in special edition of Advances in Intelligent Systems and Computing (AISC, vol. 866, pp. 21–34, ISBN No. 978-3-030-00978-6)
8. Rehman, H., Nazir, M., & Mustafa, K. (2018), Credentials safety and system security payoff and trade-off: Comfort level security assurance framework, presented in 9th International Conference on Quality, Reliability, Infocom Technology and Business Operation (ICQRITBO-2018) held on Dec 29, 2018 in Delhi University.
9. Rehman H., Nazir M., Mustafa K. (2017). Security of Web Application: State of the Art. In: Kaushik S., Gupta D., Kharb L., Chahal, D. (eds) Information, Communication and Computing Technology. Proceedings-ICICCT 2017. Communications in Computer and Information Science, vol 750. Springer, Singapore (ISBN No. 978-981-10-6543-9). <https://link.springer.com/book/10.1007%2F978-981-10-6544-6>
10. Mohammad, M. N. A., Nazir M. & Mustafa K. (2019). A Systematic Review and Analytical Evaluation of Security Requirements Engineering Approaches. Arab J Sci Eng. DOI 10.1007/s13369-019-04067-3, https://www.researchgate.net/publication/335002508_A_Systematic_Review_and_Analytical_Evaluation_of_Security_Requirements_Engineering_Approaches
11. Kaur, A. & Mustafa, K. (2019). A Critical appraisal on Password based Authentication. International Journal of Computer Network and Information Security, 11(1), p.47-61. DOI: 10.5815/ijcnis.2019.01.05, <http://www.mecspress.org/ijcnis/ijcnis-v11-n1/IJCNIS-V11-N1-5.pdf>
12. Rehman H, M Nazir, Mustafa K. (2018). Comfort Level Security – A Multi-Factor Authentication Framework’ International Journal of Applied Engineering Research, 13(17) pp. 13166-13177. https://www.ripublication.com/ijaer18/ijaerv13n17_28.pdf
13. Rehman H., Khan U. A., Nazir M. & Mustafa K. (2018). Strengthening the bitcoin safety: a graded span based key partitioning mechanism, International Journal of Information Technology, pp 1-7: <https://doi.org/10.1007/s41870-018-0252-7>
14. Khan J M & Mustafa K (2019). Modeling Adaptive Instructional Systems-A Framework, Multimedia Tools and Applications (2019) 78:14397–14424. <https://doi.org/10.1007/s11042-018-6819-2>
15. Khan J. M. & Mustafa K (2018). Integrated Help. Asian Journal of Education and e-Learning, 6(4), 78-94. <https://ajouronline.com/index.php/AJEEL/article/view/5457>

16. Khan, U. A., & Mustafa, K.(2018): Securing OSNS through Purified Social Network: A Technology enforcement solution for checking Bad Post propagation, IJIACS , 7(4), ISSN 2347 – 8616: <http://academicscience.co.in/admin/resources/project/paper/f201804171523953658.pdf>
17. Khan, U. A., & Mustafa, K.(2017): Survey on Privacy Preservation and Identity Management Systems, IJASCSE, 6(7):71-79. <http://www.ijascse.org/volume-6-theme-based-issue-9/Privacy-Preservation.pdf>
18. Khan U. A. & Mustafa K.(2017): Decentralizing Identity Credentials to Safeguard Digital Identity, IJETSRS, 4(7), ISSN 2394 – 3386, July 2017: www.ijetsr.com/images/short_pdf/1500401985_icted282_word_etsr.pdf
19. Issa-Salwe A. & Mustafa K. (2016): Security through Strategic Information Systems Planning, International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307 (Online),6(3): 1-6. (2015IF-3.76) <http://www.ijscce.org/v6i3.php>
20. Anwer, F., Nazir, M., & Mustafa, K. (2016). Testing Program for Security using Symbolic Execution and Exception Injection. Indian Journal of Science and Technology, 9(19). <http://52.172.159.94/index.php/indjst/article/view/91025>
21. Anwer F., Nazir M., Mustafa K. (2019) Testing Program Crash Based on Search Based Testing and Exception Injection. In: Nandi S., Jinwala D., Singh V., Laxmi V., Gaur M., Faruki P. (eds) Security and Privacy. ISEA-ISAP 2019 Proceedings. Communications in Computer and Information Science, vol 939. Springer, Singapore. <https://link.springer.com/content/pdf/10.1007%2F978-981-13-7561-3.pdf>
22. Rehman, H., Nazir, M., & Mustafa, K. (2018). Strengthening the key Safety of Bitcoin, Presented-International Conference on Advances in Science & Technology (ICAST - 2018, Jaipur, India.
23. Rehman H., Yafi E., Nazir M. & Mustafa K.(2018). Security Assurance Against Cybercrime Ransomware. Proceedings - International Conference on Intelligent Computing, pp 21-34 Thailand. <https://azpdf.tips/intelligent-computing-amp-optimization-pdf-free.html>
24. Rehman H., Nazir M. & Mustafa K.(2018). Credentials safety and system security payoff and trade-off: Comfort level security assurance Framework. Presented in 9th International Conference on Quality, Reliability, Infocom Technology and Business Operations” (ICQRIT’2018), Dec. 27-29, University of Delhi, Delhi, India.
25. Anwer F., Nazir M. and Mustafa K. (2018). Testing Program Crash Based on Search Based Testing and Exception Injection. Presented in 2nd ISEA Conference on Security and Privacy (ISEA-ISAP 2018).
26. Rehman H., Nazir M., Mustafa K. (2017) Security of Web Application: State of the Art. In: Kaushik S., Gupta D., Kharb L., Chahal D. (eds) Information, Communication and Computing Technology. ICICCT 2017. Communications in Computer and Information Science, vol 750. Springer, Singapore. https://link.springer.com/chapter/10.1007%2F978-981-10-6544-6_17
27. Nadeem M., Nazir M., Mustafa K.(2017): Security threats taxonomy: Smart-home perspective, In Proceedings of [3rd International Conference on Advances in Computing, Communication & Automation \(ICACCA\) \(Fall\)](https://ieeexplore.ieee.org/document/8344666/), September 15-16, Dehradun, India. <https://ieeexplore.ieee.org/document/8344666/>
28. Khan M. J. & Mustafa K. (2016): An Adaptive Hypermedia Instructional Framework, Proceedings - 2nd International Conference on Applied and Theoretical Computing and Communication Technology (iCATcT), 85-93, 2016: <https://doi.org/10.1109/icatct.2016.7911970>
29. Kaur A. & Mustafa K. (2016): Qualitative Assessment of Authentication Measures, Presented & Published in Proceedings - 10thINDIACom; INDIACom-2016; IEEE Conference ID: 37465 2016 3rd International Conference on “Computing for Sustainable Global Development”, 16th - 18th March, 2016
30. Anwer, F., Nazir, M., & Mustafa, K .(2014). A Critical survey Of Security Issues Of OOP, In Proceeding of the National Conference on Information Security Challenges (NCISC-2014), BBAU, Lucknow.
31. Anwar F., Nazir M. & Mustafa K. (2014): Automatic Testing Of Inconsistency Caused By Improper Error Handling: A Safety and security perspective, Proceedings – International Conference on Informative and Communication Technology for Competitive Strategies (ICTCS '14), ISBN-978-1-4503-3216-3, ACM, New York, NY, USA, Article 43 , pp 43.1-5, <http://doi.acm.org/10.1145/2677855.2677898>

32. Anwer, F., Nazir, M., & Mustafa, K. (2013, August). Safety and Security Framework for Exception Handling in Concurrent Programming. In *Advances in Computing and Communications (ICACC), 2013 Third International Conference on* (pp. 308-311). IEEE.
33. Rehman S. & Mustafa K.(2013): Software Security Risk Mitigation Using Object Oriented Design Patterns, *International Journal of Research in Engineering and Technology* (ISSN-, 2321-7308) Vol 2, issue 07, p 71-89. http://www.ijret.org/Volumes/V02/I07/IJRET_110207010.pdf
34. Barbhuiya, R. K., Mustafa, K. and Jabin, S. (2013): A Personalized Learning System with Adaptive Content Presentation and Affective Evaluation Facilities, *International Journal of Computer Applications* (0975 - 8887), Volume 70 - No. 26, pp 10-15, (doi: 10.5120/12230-8360)
35. Rehman S. and Mustafa K. (2012). Software Design Level Vulnerability Classification Model. *International Journal of Computer Science and Security (IJCSS)*, Volume (6): Issue (4) 238-55. <http://www.cscjournals.org/csc/journals/IJCSS/description.php?JCode=IJCSS> (<http://dx.doi.org/10.1016/S0167>)
36. Pandey S. K. & Mustafa K. (2012): A Comparative Study of Risk Assessment Methodologies for Information Systems, *Buletin Teknik Elektro dan Informatika (Bulletin of Electrical Engineering and Informatics)*, Janturan, Yogyakarta, Indonesia, Vol. 1, No. 2, June, 2012, pp. 111-122.
37. Pandey S. K. & Mustafa K. (2012): Risk Assessment through Efficient Authentication, *International Journal of Computer Science and Engineering (IJCSE)*, published by International Academy of Science, Engineering and Technology (IASET), Vol. 1, Issue 1, Aug, 2012, pp. 65-73.
38. Rehman, S. and Mustafa, K. (2011).Software Design Level Securiry Vulnerabilities, *International Journal of Software Engineering*. Vol.4 No.2, July 2011 (ISSN: 0163-5948 DOI: 10.1145/1640162.1640171)
39. Jabin S. and Mustafa K. (2011): Semantic Web based Adaptive Intelligent Tutoring System, , *Proceedings - International Joint Conference on Advances in Engineering and Technology (AET 2011)*, India, ACEEE, India (Dec 20-21, Presented) ACEEE. DOI: 02.ACS.2011.02
40. Barbhuiya, R. K., Mustafa, K. and Jabin, S. (2011): Design specifications for a generic Intelligent Tutoring System. *Proceedings - International Conference on E-Learning, E-Business, Enterprise Information Systems, & E-Government, WORLDCOMP'11*, July 18-21, Las Vegas, USA. (Presented) [cerc.wvu.edu/download/WORLDCOMP'11/.../EEE3294.pdf](http://www.cerc.wvu.edu/download/WORLDCOMP'11/.../EEE3294.pdf)
41. Barbhuiya, R. K., Mustafa, K. and Jabin, S. (2011): Design perspectives of Intelligent Tutoring System. *Proceedings-5th Indian International Conference on Artificial Intelligence (IICAI-11)*, December 14-16, 2011;Tumkur, India (Presented). IICAI 2011: 1484-1495. 2010. 5
42. Kumar R. & Mustafa K. (2011): Security Requirements Development Framework (SRDF)",*International Journal of Advanced Research in Computer Science*, Volume 2, No. 5, Sept-Oct 2011
43. Jabin S. and Mustafa K. (October 2010): 'Adaptive Intelligent Tutoring Systems' in the 4th International IEEE conference on Advanced Computing & Communication Technologies, October 30, 2010, APIIT, Panipat, INDIA; Presented and Published in proceedings, IJCSCT, ISSN 0974-3375 , pp 475-80
44. Nazir M., Khan R. A. & Mustafa K.(2010): Testability Estimation Framework, *International Journal of Computer Applications* (0975 – 8887), Volume 2 – No.5, pp 9-14
45. Aggarwal P. & Mustafa K. (2010): Validating Exception Faults Testing Framework, *International Journal of Advanced Computing*, GRIET Publications, 2(2), pp 68-76.
46. Nazir M, Khan R. A. & Mustafa K.(2010): A Metrics Based Model for Understandability Quantification, *Journal of Computing*, Volume 2, Issue 4, April 2010, pp 90-94: <http://arxiv.org/abs/1004.4463>
47. Aggarwal P. & Mustafa K.(2010): Testing Exception Faults in Object Oriented Code, *International Journal of Advanced Computing*, GRIET Publications, 1(1), PP 9-17.
48. Pandey S. K. & Mustafa K. (2010): Risk Assessment Framework, *International Journal of Advanced Research in Computer Science*, Vol 01, No. 3, pp 423-32
49. Pandey S. K. & Mustafa K. (2010): Security Assurance : An Authentication Initiative by Checklists, *International Journal of Computer Science and Engineering*, Vol. 1, No. 2, pp 110-13

50. Pandey S. K. & Mustafa K. (2010): Recent Advances in SRE Research,, International Journal of Computer Science and Engineering, Vol. 2, No. 4, pp 1079-85
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99. Khan R. A., *Mustafa K.* & Shalabi H.(2004): Establishing Software Quality Assurance Program *Developers IQ*, Vol. 4(12), pp. 72-75, 2004.
100. Afzal S., *Mustafa K.* & Khan R. A. (2004): Assessment of Quality Contributor Attributes- An Object Oriented Software Perspective, *Developers IQ*, Vol. 4(11), pp. 35-40.
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109. *Mustafa K.* (2003): E-Learning Potentials and Prospects, Presented - Conference on Education: Breaking the Barriers, March 27-29, Jamia Millia Islamia, N. Delhi, India
110. Sharma A. K., Kumar C., *Mustafa K.* & Kumar A. (2003): A Fuzzy Rule Frame Based Expert Shell. Presented - National WITSA-2003, Feb 27-28, Jamia Millia Islamia, N. Delhi, India
111. Khan R. A. & *Mustafa K.* (2003): Technophobia: A Critical Barrier to Education. Presented - Conference on Education: Breaking the Barriers, March 27-29, Jamia Millia Islamia, N. Delhi, India
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114. *Mustafa K.* (2001): E-learning Pedagogy: The Theoretical Support. Presented at Conference ELEELTECH , Aug 07-08, C-DAC, Hyderabad, India
115. *Mustafa K.*,(2000): Engineering CAI : A Psycho-ergonomic Framework, Presented / *Proceedings – Third Workshop on Software Development in Next Millennium*, October 22-23, 2000, KFUPM, KSA, pp 147-163.
116. *Mustafa K.*,(2000): Computer Assisted Instruction: An Author’s Perspective, Presented / *Proceedings – Third Workshop on Software Development in Next Millennium*, October 22-23, 2000, KFUPM, KSA, pp 164-187
117. *Mustafa K.* (1998): Computing and Communication Technologies for Hi-tech Learning Environments, Accepted - International Conference on Educational Culture in 21st Century, AIAET, Guwahatti, India.

<p>PhD Supervision</p>	<p>118. <i>Mustafa K. & Masih A. (1997): A true-Picture Paradigm for Information, Journal of Objective Studies, 8(1), pp 11-18, New Delhi, India.</i></p> <p>119. <i>Masih A. & Mustafa K. (1995): Educating Social Values in Pluralist Society – A search for Sound Footings, Presented - Annual Convention of IAMSS, Sep 13-19, Hyderabad, India</i></p> <p>120. <i>Mustafa K. & Kumar K. L. (1993): Towards Educational Authoring Systems. Presented - Annual Conference of AIAER, June 1-3, JMI, New Delhi, India</i></p> <p>121. <i>Shobha P., Mustafa K. & Aggarwal D. (1991): Natural Language Interface Based Library Information System, Accepted - International Conference on Information Technology and National Development, BHU, Varanasi, India</i></p> <ul style="list-style-type: none"> • Sensitive Data Protection in Blockchain Applications (SK,2018-Continue) • Mitigation of Endpoint Vulnerabilities in Blockchain Applications (AF,2018-Continue) • Web Content Authentication (MS,2018-Continue) • Modelling and Evaluation of Learning Apps (SG,2017-Continue) • Formal Specification of Apps' Security Requirements (AK, KM,2017-Continue) • Security Assurance by Efficient Password-Based Authentication (AP, KM,2014-Continue) • Privacy Preservation and Identity Management (MUK, KM,2013- Continue) • Adaptive Hypermedia Instructional Systems (MJK-KM,2013-Submitted) <ol style="list-style-type: none"> 1. Security Assurance of Web Applications (HR, MN-KM, 2019) 2. Security Testing of Object Oriented Code (FA, MN-KM,2017) 3. Adaptive Intelligent Tutorial Systems (RKB, KM-SJ,2016) 4. OOD Security Vulnerabilities and Mitigation Mechanism (SR, KM,2012) 5. Developing Security Requirements for Web Applications (RKV, KM, 2012) 6. Component Based Software Engineering (MA, KM,2012) 7. Detection of Movement in Video Images (AAMA, KM-SIA,2011) 8. Security Risk Assessment through SRS (SKP, KM, 2011) 9. Testability Estimation of Object Oriented Software (MN, KM-RAK,2011) 10. Testing for Software Tolerance (PG, KM,2010) 11. Web-based Instructional System for Computer Programming (AW, KM,2009) 12. Reengineering Application Software (KG, KM-AKS,2005) 13. Quality Estimation of Object Oriented Software: A Design Phase Perspective (RAK,2005) 14. A Soft Computing Approach for The Architecture of An Expert System Shell (CKN,2005)
<p>PG Project Supervision</p>	<p>► Two-to-Five Sixth Semester Projects annually (2000-04, 07-13, 17---</p> <ol style="list-style-type: none"> 1. MCA (35+) 2. PGDCA (15+) 3. MSc(Bioinformatics:10+)
<p>Select Participations</p>	<ol style="list-style-type: none"> 1. RMIT-2014 BBAU, Lucknow: Keynote & Valedictory Address, Sep 20-28, 2014 2. NCISC-2014 BBAU, Lucknow: Keynote (Software Security Assurance)& Valedictory Address, March 28, 2014 3. ASSOCHAM Cyber Security Summit: Oct 14-15, 2013, New Delhi 4. Extension Lecture on 'High Performance computing' by Prof Shyam Sunder TIFR: SAARC University, Delhi, Oct 18, 2013 5. Panel Discussion on E-Content & E-Learning, FTK-CIT, Jamia Millia Islamia, May 21, 2013 6. Doctoral Committee Meeting, College of ICT, Galgotia University, April 01, 2013 7. International Conference on Software Engineering and Mobile Application Modeling (ICSEMA - 2012), Dec 19-21, 2012, BRAU, Chennai. 8. First NKN Annual Workshop, Oct 30-Nov 02, 2-12; organized by NIC-GoI & IIT Bombay, Powai, Mumbai 9. Cloud Computing Imperative India Summit, Aug 02-03, 2012, Delhi by Fleming Gulf 10. TCS-FDP Workshop on Information Security, Green computing, July 21, 2012, BVCOE, Pashim Vihar, New Delhi 11. A Symposium on 25 year of the Bioinformatics in India (1986-2011) - A Symposium, February 2, 2011, Pondicherry University, India 12. DBT XXII BTISNet Coordinators Meeting - "25 year of the Bioinformatics in India (1986-2011)" Silver Jubilee Celebration, February 3-4, 2011; Pondicherry University, India 13. WorldDIDAC India 2009: International Exhibition and Conference of Technology Tools in Education, Sep 24-25, Pragati Maidan, New Delhi

14. Conference on 'Sustainable Development and Management of IT in Universities and Colleges', Feb 26-27, 2009; FTK-CIT, JMI, New Delhi
15. Workshop on Access, Equity and Excellence in Higher Education: (Jan 12-13, 2009), UGC-Academic Staff College, JMI
16. National Seminar on Current Trends in mobile Computing (Nov 28-29, 2008): BGSBU, Rajouri, J&K
17. Experts' Review on 'Setting up of Online System in IT'(July 4-5, 2008): C-DAC, Noida, India
18. National Seminar on E-Learning (Jan 19, 2008): IBA, Greater Noida, India
19. EliteX2008(Securing the Indian Cyberspace): Jan 17, 2008, DIT Govt. of India, Delhi (Inaugural & First Session)
20. National Seminar on e-Security Education through e-Learning (e-learn'2007), Dec 19, 1007; CDAC, Noida, India
21. National conference on Methods and Models in Computing (Inaugural Session), Dec 13-14, 2007; JNU, India
22. RE'07, IEEE International Conference of Requirements Engineering, Oct ober 15-19, 2007, India Habitat Centre, New Delhi
23. International Conference on Online Learning, Dec 15-17, 2002, National Centre for Software Technology, Mumbai, India
24. EELTECH-2001, C-DAC and MIT Govt. of India, Hyderabad India
25. Third Workshop on Software Development in Next Millennium, October 22-23, 2000, KFUPM, Kingdom of Saudi Arabia
26. National Workshop on IT Services and Applications, Feb 27-28, 2003; Jamia Millia Islamia, N, Delhi

Select Lectures

1. ITS: Strategic Imperatives and complements: (Feb 24,2020), HRDC-AMU, Aligarh
2. MOOCS-A SWOT Analysis: (Feb 24,2020), UGC-HRDC-AMU, Aligarh
3. Grand Challenges in IT Research: (Feb10,2020),HRDC-JMI, Delhi
4. Recent Trends in IT: (Jan 10,2019). Foundation Day Celebrations, BBAU, Lucknow
5. Scientific Methods and IT Security: (Jan 09,2019). 5th Refresher Course in Contemporary Studies, UGC-HRDC, JNU, New Delhi-110025
6. IT Trends and Tipping Points: (Guest Lecture, Sep24, 2018) DCA, BSACIT, Chennai
7. Scientific Temper, IT Security and Strategic Complements (Invited Talk, Aug 27, 2018): Aggarwal College, Ballabgarh, Haryana
8. Grand Challenging Problems in CS Research (Aug 08,2018)- NMU, Jalgaon, Maharastra
9. IT Security and Strategic Imperatives (Keynote Lecture, March17, 2018): National Conference on Emerging Trends and Issues in Information Technology & Communication, MANUU, Hyderabad, Telangana
10. Scientific Temper, IT Security and Strategic Complements (Invited Talk, Feb 27, 2018): National Science Celebration, BBAU, Lucknow, UP
11. Indian IT Act (Feb 06, 2018): Two Weeks Training Course On Cyber Security, BBAU, lucknow, UP
12. Cyber Security Tools and Methods (Feb 03, 2018): Two Weeks Training Course on Cyber Security, BBAU, lucknow, UP
13. Cyber-security: Issues, Threats and Attacks (Feb 02, 2018): Two Weeks Training Course On Cyber Security, BBAU, lucknow, UP
14. Cyber-security- The Context and Indian Response (Feb 01, 2018): Two Weeks Training Course On Cyber Security, BBAU, lucknow, UP
15. Grand Challenges in IT Research (July 26,2017)- BSA Crescent University, Chennai
16. Scientific Research and Dissemination (... , 2017), BBAU, Lucknow, India
17. Grand Challenges in IT Research (Feb 2016)- CCSE, Taibah University, Medina, KSA
18. Computer Science – As a Discipline (Sep 30, 2014): Department of Computer Science, South Gujrat University, Surat, Gujrat, India
19. Research Methods Lecture Series (Sep 20-28, 2014): RMIT-2014, BBAU, Lucknow, UP, India
20. Software Security assurance: (March 28, 2014)- Keynote Address, NCISC-2014, DIT, BBAU-Lucknow, UP
21. Research Foundations: (March 22, 2014)- Invited Talk, Department of Physics, Sharda University, GNoida
22. Challenging Research Problems in Computer Science: (Dec 17, 2013), refresher Course, Institute of Lifelong Learning, University of Delhi
23. E-Learning Perspectives: (Dec 17, 2013), refresher Course, Intitue of Lifelong Learning, University of Delhi

24. Intelligent Tutorial Systems' (July 31, 2013): Refresher Programme for Computer Science Faculty, JNU, New Delhi
25. A Conceptual Overview of 'Intelligent Tutorial Systems' (June 07, 2013): Amity University, Noida, UP
26. **Challenges in Computer Science Research (Feb 28, 2013): AICTE Sponsored Faculty Development Programme (FDP, Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), A-4, Paschim Vihar, New Delhi**
27. Research Paradigms in Software Engineering, (Dec 21, 2012): International Conference on Software Engineering and Mobile Application Modelling, BRAU, Chennai.
28. Research Paradigms in Computer Science (Oct 12, 2012): Department of Computer Science & IT, MANUU, Hyderabad
29. Elements of Scientific Method (Oct 11, 2012): Refresher Course, ASC, MANUU, Hyderabad
30. Reasoning, Arguments and Fallacies (Oct 10, 2012): Refresher Course, ASC, MANUU, Hyderabad
31. Methods of Proof (Nov 27, 2010): Refresher Course, ASC, Jamia Millia Islamia, New Delhi
32. Scientific Methods in Computer Science, Sep 09, 2010, Academic Staff College, JNU
33. Lecture Series on 'Research Methods in Computer Science', Gyandarshan TV Channel, EMPC, IGNOU, India, Jan-Feb,2011
34. Grand Challenges in Computer Science Research, LDIET, Chikani, Alwar, Rajasthan, March 29, 2011
35. Computer Science –An Emerging Discipline, BBIT, Ghaziabad, U.P., April 08, 2011
36. Knowledge Management with a Proactive Thesis (2010):National Conference on Advances in Knowledge Management, Lingaya University, March 08, 2010
37. Computer Based Educational Systems (2009): A Guest Lecture, Aug 20, IUST, Srinagar, India
38. Software Security Assurance by Requirements (2009): An Invited Session: National Seminar on Current Trends in Mobile Computing, BGSBU, Rajouri, J & K, Nov 28-29, 2008
39. Software Testability: An Invited Session at National Seminar on Information Technology, Ghaziabad, Sep 05, 2008
40. E-Learning and its Potentials – A Conceptual Overview (Tutorial): National Seminar on E-Learning: Jan 19, 2008, IBA, Greater Noida
41. Multimedia Systems and Applications; Dec- 2003, Academic Staff College IT Orientation Course for University Teachers, Jamia Millia Islamia, New Delhi
42. E-Learning; Dec-2003, Academic Staff College IT Orientation Course for University Teachers, Jamia Millia Islamia, New Delhi
43. Effective Presentations: Design, Development and Delivery using PowerPoint; Dec-2003, University Administrative Staff Training, Academic Staff College, Jamia Millia Islamia, New Delhi
44. Computers and Their Significance: May-6, 2003, Polytechnic Teachers Orientation Programme, Jamia Millia Islamia, New Delhi
45. Educational Technology in Context: April- 2003, In-Service Teachers' Refresher Programme, ASC, Jamia Millia Islamia, New Delhi
46. Education on Internet; April -2003, In-Service Teachers' Refresher Programme, ASC, Jamia Millia Islamia, New Delhi
47. Educational Multimedia Applications: Feb-2003, National Workshop on IT Services and Applications, CIT, Jamia Millia Islamia, N. Delhi)
48. Web Today: A search for Education on Internet: Sep-2002, Orientation Programme, ASC, Jamia Millia Islamia, New Delhi
49. Overview of Multimedia Authoring Tools: April 2002, DCS, Jamia Millia Islamia, New delhi
50. New Technological Tools for Education – Internet; June 2000, Orientation Programme, Academic Staff College, Jamia Millia Islamia, New Delhi
51. Frontiers in Educational Technology; Mar 2000, DIET Faculty Orientation Course, Jamia Millia Islamia, New Delhi
52. Internet in Education; Mar-2000, DIET Orientation Course, Jamia Millia Islamia, New Delhi
53. Statistical Data Analysis; June-96, Regional Engineering Colleges Core Group Faculty Orientation Programme, IIT Delhi
54. Development of CAI: June-95, Engineering Faculty Orientation Programme, IIT, Delhi

Faculty Development Courses	<p>55. Instructional Design for CAI: Dec 94, Engineering Faculty Orientation Programme, IIT, Delhi, India</p> <ol style="list-style-type: none"> Instructional Design for CAI - A Faculty Development Module - IIT Delhi, 1994 (Two Weeks) Innovations in Teaching Methodologies for Higher Order Learning - A Video-Teleteaching Course - IGNOU-IIT Delhi at IGNOU (One Week) Design, Implementation and Evaluation of Project Proposals – A Workshop at IIT Delhi (One Day) Preparatory Training on Curriculum development, at IIT Delhi for World Bank Project of Tribhuvan University, Nepal (One Week)
Manuscripts and Plans	<ol style="list-style-type: none"> Developed CBCS Curriculum of MCA, PGDCA & BSc - 2019 Revised Curriculum of MCA, M.Sc.(Bioinformatics) & PGDCA - 2014 Project Proposal on ‘Modeling Adaptive ITS’ -2010 Ordinances and Curriculum of MCA for MAANUU, India XII Five Plan for the Department to GoI Project Proposal on ‘Development of a Security Assessment Framework for Object Oriented Software, DIT, Govt. of India’ – Pursued and Completed on Sep 30, 2008 Multimodal Learning Web’ & ‘Multimedia Educational System’, AICTE Curriculum and Detailed Syllabi: M. Phil, B.Sc., MCA, MSS, BIT & PGDCA X-Plan and XI Plan Proposals for the Department of Computer Science, Jamia Millia Islamia, 2001/2008
Doctoral Research	<ul style="list-style-type: none"> ▶ Topic: Authoring Computer Assisted Instruction for Higher Order Learning ▶ Area: Computer Applications ▶ Significant Contributions: CAI Authoring Framework, CAI Package Quality Rating Scale; and A Taxonomic Description for Higher Order Learning Instructional Design ▶ Pre-Ph.D. Courses: Logic and Functional Programming, Instructional Design, Educational Technology and Minor Project
Projects Undertaken	<ul style="list-style-type: none"> ▶ Design and Development of CAI/CAL Packages –PhD Course Work,IITD ▶ A Critical Review of Authoring Systems: PhD Course Work,IITD ▶ Natural Language Interface Based Information Systems: MTech,IITD ▶ Development of a User Friendly Package for Solving Linear Programming Problems: MTech, IITD ▶ Design and Development of Computer-based Library Info. And Circulation System: MSc,JMI
Fellowships	<ol style="list-style-type: none"> ICSSR Partial Assistance, Government of India, Fellowship: PhD Delhi Government’s National Scholarship, DelhiGovt: BSc(H) Central Scholarship, Jamia Millia Islamia, Delhi: BSc(H)
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Esteemed References	<ul style="list-style-type: none"> ▶ Prof. Manohar Lal, Ex-Director-SOCIS, IGNOU, New Delhi, India: lalmanohar003@yahoo.com ▶ Prof. Zahid H. Khan, Hon Director-CIT, Jamia Millia Islamia, New Delhi, India ▶ Prof. S. Ahmad, Ex-Dean-FNS, Jamia Millia Islamia, New Delhi: khalil_ahmad49@yahoo.com ▶ Prof. S. I. Ahson, Ex-PVC, Patna University, Bihar: drsiahson@yahoo.com
Select Citations	<ul style="list-style-type: none"> ▶ Book-1: Software Quality: Concepts & Practices 1. American University, College of Arts and Sciences, Department of Computer Science, Semester: Fall 2011, Course Number: CSC493.001, Title: Computer Science Capstone Project, Instructor: Dr. Mehdi Owrang, Office Location: SCAN (Sports Center Annex) Room 162, e-mail Address(es): OWRANG at AMERICAN.EDU. 2. Himachal Pradesh University, Master of Technology in Computer Science, Course Name: M. Tech. (Computer Science), Effective from 2010, Paper Code and Title: MT-205 Software Quality and Testing. 3. University of Sargodha, Department of Computer Science & Information Technology, Course Name: M.Sc. in Information Technology Program, Paper Code and Title: SE 493 - Software Quality Assurance 4. Tamil Nadu Open University, Post Graduate Diploma in Software Quality Management – PGDSM, PGDSM 05: Software Testing.

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