

FACULTY ANNUAL REPORT

DEPARTMENT OF COMPUTER SCIENCE



2017

National Textile University, Faisalabad.

Table of Contents

1	Aca	demic
	1.1	Full time faculty members1
	1.2	Faculty on Higher study1
2	Res	earch product development and commercialization2
	2.1	Research Articles2
	2.2	Books/Book Chapter Error! Bookmark not defined.
	2.3	Conferences5
	2.4	Training & Developments8
3	Eve	nts Organized by Technical and Non-Technical Societies9
	3.1	CS Sports Society Organized CS Sports:9
	3.2	CS Sports Prize Distribution Ceremony9
	3.3	Alumni Meet-up & Bonfire 201710
	3.4	Cyber Issues in Medical and Healthcare Infrastructure10
	3.5	Presentation of Research Paper and participation in FIT 2017 by Mr. Shahbaz Ahmad Sahi .11
	3.6	Short Course Certificate Distribution Ceremony11
	3.7	Industrial Tour BSCS-7th12
	3.8	Mr. Ulfat Imdad, MS Scholar Presented His Research Paper13
	3.9	Presentation of Research Paper by Mr. Shahbaz Ahmad13
	3.10	Mr. Shahbaz Ahmad PhD (CS) scholar won a travel grant from HEC14
	3.11	Department of Computer Science, Final Year Project Display'17 at NTU IT Center14
	3.12	Participation of Dr. Muhammad Asif as adviser in P. Public Service Commission15
	3.13	XTC Super Gear Prize Distribution Ceremony16
	3.14	Goonj-17 XTC Super Gear Annual Event of DCS16
	3.15	Goonj-17 XTC Super Gear Annual Event of DCS, Inauguration Ceremony17
	3.16	Department of Computer Science is going to conduct annual event XTC GOONJ'1717
	3.17	NTU has Signed an MOU with MTM for Academic Industrial Linkage18
	3.18	NTU has signed an MOU with UAF for RESEARCH collaboration, academic & Resources18
	3.19	Industry Academia Linkage Meeting for IT19
	3.20	Software Design Workshop20
	3.21	Farewell of Dr. Nouman Ali, A respected faculty member of CS Department20
	3.22	Welcome of Dr. Mudassar Ahmad, a new faculty member of CS Department22
	3.23	NTU Positions in BARSALEGO 17' Competition at FAST-NU (Chiniot Campus)21
	3.24	Delegation of Society of Information Technology Professionals (SIP) visited DCS22

Faculty Annual Report - 2017 Department of Computer Science

1 Academic

1.1 Full-time faculty members

SR#	NAME	Designation	Qualification
1	Dr. Muhammad Asif	Assistant Professor/Chairman	Ph.D. Computer Science
2	Dr. Rehan Ashraf	Assistant Professor	Ph.D. Computer Engineering
3	Dr. Mudassar Ahmad	Assistant Professor	PhD Computer Science
4	Dr. Sohail Jabbar	Assistant Professor	Ph.D. Wireless Communication Network
5	Dr. Nadeem Faisal	Assistant Professor	PhD Computer Engineering
6	Dr. Muhammad Asif Habib	Assistant Professor	Ph.D. Computer Science
7	Mr. Waqar Ahmad	Assistant Professor	MS Computer Science
8	Mr. Shahbaz Ahmad	Assistant Professor	MS Computer Science
9	Dr. Haseeb Ahmad	Assistant Professor	Ph.D. Computer Science
10	Mr. Muhammad Adeel	Lecturer	MS Computer Science
11	Mr. Muhammad Shahid	Lecturer	MS Software Engineering
12	Mr. Nasir Mahmood	Lecturer	MSC computer Engineering
13	Mr. Shahbaz Ahmad Sahi	Lecturer	MS Computer Science
14	Mr. Muhammad	Lecturer	MS Information Technology
15	Muhammad Ayzed Mirza	Lecturer	MS Computer Science
16	Mr. M. Raheel Zafar	Lecturer	MS Computer Science
17	Mr. Asif Suryani	Lecturer	MS Computer Science

1.2 Faculty on Higher study

SR#	Faculty Member Name	University	Country
1	Ms. Mubeen Aslam	University of Technology, PETRONAS	Malaysia

2 Research product development and commercialization

2.1 Research Articles

- 1. Nouman Ali, Danish Ali Mazhar, Zeeshan Iqbal, Rehan Ashraf, Jawad Ahmed, Farrukh Zeeshan Khan, "Content-Based Image Retrieval Based on Late Fusion of Binary and Local Descriptors", International Journal of Computer Science and Information Security (ISI-Indexed), Vol. 14, No. 11, (2017), pp.11.
- **2.** S. Gull, M. Asif, S. Ahmad, M. Yasir, M. Majid, "A Survey on Role of the Internet of Things in Education", International Journal of Computer Science and Network Security, Vol. 17, No. 5, (2017), p-5.
- **3.** Adil Aziz, Asma Sajid, Shahbaz Ahmad, "Deep Insight into Diabetic Data with the Help of Association Rule Mining", Computer Engineering and Intelligent Systems, Vol. 8, No. 4, (2017), pp.4.
- **4.** Muhammad, Hassaan Khaliq Qureshi, Umber Saleem, Muhammad Saleem, Andreas Pitsillides and Marios Lestas, "Harvested-Energy Prediction Schemes for Wireless Sensor Networks: Performance Evaluation and Enhancements", Hindawi: Wireless Communications and Mobile Computing, Vol., No. Regular Issue, (2017), pp. (Regular Issue)
- **5.** Li, Jing, Xiong Li, Licheng Wang, Debiao He, Haseeb Ahmad, and Xinxin Niu., "Fuzzy encryption in cloud computation: efficient verifiable outsourced attribute-based encryption.", Soft computing (IF 2.472 (2016))., (2017).
- **6.** Hong, Haibo, Licheng Wang, Haseeb Ahmad, Yixian Yang, and Zhiguo Qu., "Minimum length key in MST cryptosystems.", Science China Information Sciences (IF 1.628 (2016))., Vol. 60, No. 5, (2017), pp.5.
- 7. Huijun Zhu, Licheng Wang, Haseeb Ahmad and Xinxiang Niu., "Pairing-free equality test over short ciphertexts." International Journal of Distributed Sensor Networks (IF 1.239 (2016))., Vol. 13, No. 6, (2017), pp.6.
- **8.** Hong, Haibo, Licheng Wang, Haseeb Ahmad, Jun Shao, and Yixian Yang., "Minimal logarithmic signatures for one type of classical groups." Applicable Algebra in Engineering, Communication, and Computing (IF 0.667). Vol. 28, No. 2, (2017), pp.2
- **9.** Ibrar Ahmad, Xiaojie Wang, Yuz hao Mao, Guang Liu, Haseeb Ahmad and Rahat Ullah, "Ligature based Urdu Nastaleeq sentence recognition using gated bidirectional long short-term memory.", Cluster Computing (IF: 2.040 (2016))., (2017).
- **10.** Huijun Zhu, Licheng Wang, Haseeb Ahmad and Xinxin Niu., "Key-Policy Attribute-Based Encryption with Equality Test in Cloud Computing.", IEEE Access (IF: 3.244 (2016))., (2017).
- **11.** Muhammad Azam Zia, Zhongbao Zhang, Ximing Li, Haseeb Ahmad, and Sen Su., "ComRank: joint weight technique for the identification of influential communities.", China Communications (IF: 0.902 (2016))., Vol. 14, No. 4, (2017), pp.4.
- **12.** Licheng Wang, Yun Pan, Minxing Tang, Haseeb Ahmad and Minzheng Jia., "A heuristic stream order scheduling algorithm for intra-superframe power management of wireless personal area networks.", EURASIP Journal on Wireless Communications and Networking (IF: 1.529 (2016))., Vol., No., (2017), pp.
- **13.** Muhammad Azam Zia, Zhongbao Zhang, Guangda Li, Haseeb Ahmad and Sen Su, "Prediction of Rising Venues in Citation Networks. ", Journal of Advanced Computational Intelligence and Intelligent Informatics (ESCI, Scopus, EI)., Vol. 21, No. 4, (2017), pp.4

- **14.** Muhammad Azam Zia, Zhongbao Zhang, Liutong Chen, Haseeb Ahmad and Sen Su, "Identifying influential people based on interaction strength.", Journal of Information Processing Systems (ESCI, Scopus, EI)., Vol. 13, No. 4, (2017), pp.4
- **15.** Muhammad Farhan, Sohail Jabbar, Muhammad Aslam, Mohammad Hammoudeh, "IoT-based Students Interaction Framework using Attention-Scoring Assessment in eLearning", Future Generation Computer Systems, Vol. 79, No. 3, (2017), pp.3
- **16.** Muhammad Tausif, Javed Ferzund, Sohail Jabbar, Raheela Shahzadi, "Towards Designing Efficient Lightweight Ciphers for Internet of Things", KSII Transactions on Internet and Information Systems, Vol. 11, No. 8, (2017), pp.8
- 17. Sohail Jabbar, Farhan Ullah, Shehzad Khalid, Murad Khan, Kijun Han, "Semantic Interoperability in Heterogeneous IoT Infrastructure for HealthCare", Wireless Communication and Mobile Computing, Vol. 2017, No. 2017, (2017), pp.2017
- **18.** Khurram Zeeshan Haider, Kaleem Razzaq Malik, Shehzad Khalid, Tabassam Nawaz, Sohail Jabbar, "Deepgender: real-time gender classification using deep learning for smartphones", Journal of Real Time Image Processing, Springer, Vol., No., (2017), pp.
- **19.** Awais Ahmad, Anand Paul, Muard Khan, Sohail Jabbar, Muhammad Mazhar Ullah Rathore, Naveen Chilamkurti, Nasro Min-Allah, "Energy Efficient Hierarchical Resource Management for Mobile Cloud Computing", IEEE Transactions on Sustainable Computing, Vol. 2, No. 2, (2017), pp.2
- 20. Abdurrahman Abuarqouba, Mohammad Hammoudehb, Bamidele Adebisib, Sohail Jabbar, Ahcone Bounceurd, Hashem Al-Bashara, "Dynamic Clustering and Management of Mobile Wireless Sensor Networks", Computer Networks, Elsevier, Vol. 117, No. 22, (2017), pp.22
- **21.** Uzma Jamil, Shehzad Khalid, M.Usman Akram, Awais Ahmad, Sohail Jabbar, "Melanocytic and Nevus Lesion Detection from Diseased Dermoscopic Images using Fuzzy and Wavelet Techniques", Soft Computing, Springer, Vol., No., (2017), pp.
- **22.** Muhammad Farhan, Muhammad Aslam, Sohail Jabbar, Shehzad Khalid, Mucheol Kim, "Real-Time Imaging based Assessment Model for Improving Teaching Performance and Student Experience in eLearning", Journal of Real-Time Image Processing, Springer, Vol. 13, No. 3, (2017), pp.3
- **23.** Farhan Ullah, Muhammad Asif Habib, Muhammad Farhan, Shehzad Khalid, Mehr Yahya Durrani, Sohail Jabbar, "Semantic interoperability for big-data in heterogeneous IoT infrastructure for healthcare", Sustainable Cities and Society, Elsevier, Vol. 34, No., (2017), pp.
- **24.** Sohail Jabbar, Abid Ali Minhas, Mudassar Ahmad, Junaid Chaudhry, Omer Aldabbas, "Designing an Energy-Aware Mechanism for Lifetime Improvement of Wireless Sensor Networks: A Comprehensive Study", Mobile Networks and Applications, Springer, Vol., No., (2017), pp.
- 25. Muhammad Farhan, Sohail Jabbar, Muhammad Aslam, Awais Ahmad, Muhammad Munwar Iqbal, Murad Khan, Martinez-Enriquez Ana Maria, "A Real-time Data Mining Approach for Interaction Analytics Assessment: IoT based Student Interaction Framework", International Journal of Parallel Programming, Springer, Vol., No., (2017), pp.
- **26.** Rehan Ashraf, Mudassar Ahmed, Sohail Jabbbar, Shehzad Khalid, Awais Ahmad, Sadia Din, Gwangil Jeon, "Content Based Image Retrieval by Using Color Descriptor and Discrete Wavelet Transform", Journal of Medical Systems, Springer, Vol., No., (2017), pp.

- **27.** Mudassar Ahmad, Ngadi Md Asri, Ahmad Usman, Kashif Amjad, Ibrahim Ghafir, Mounir Arioua, "A new Linux based TCP congestion control mechanism for long distance high bandwidth sustainable smart cities", Sustainable Cities and Society, Elsevier, Vol. 37, No., (2017), pp.
- **28.** Muhammad Asif Habib, Mudassar Ahmad, Sohail Jabbar, Syed Hassan Ahmed and Joel J. P. C. Rodrigues, "LEAIOT: A Lightweight Encryption Algorithm towards Low Latency Communication for Internet of Things", IEEE Consumer Electronics Magazine, Vol., No., (2017), pp.
- **29.** Sohail Jabbar, Muhammad Asif Habib, Abid Ali Minhas, Mudassar Ahmad, Rehan Ashraf, Shehzad Khalid, Kijun Han, "Analysis of Factors Affecting Energy Aware Routing in Wireless Sensor Network", Wireless Communication and Mobile Computing, Vol., No., (2017), pp.
- **30.** Shehzad Khalid, Sadaf Sajjad, Sohail Jabbar, Hangbae Chang, "Accurate and efficient shape matching approach using vocabularies of multi-feature space representations", Journal of Real-Time Image Processing, Springer, Vol. 13, No. 3, (2017), pp.3
- **31.** Shehzad Khalid, Bushra Sabir, Sohail Jabbar, Naveen Chilamkurti, "Precise shape matching of large shape datasets using Hybrid Approach", Journal of Parallel and Distributed Computing, Vol. 110, No., (2017), pp.
- **32.** Faisal Riaz, Imran Shafi, Sohail Jabbar, Shehzad Khalid, Seungmin Rho, "A Novel White Space Optimization Scheme Using Memory Enabled Genetic Algorithm in Cognitive Vehicular Communication", Wireless Personal Communication, Vol. 93, No. 02, (2017), pp.02
- **33.** Murad Khan, Awais Ahmad, Shehzad Khalid, Syed Hassan Ahmed, Sohail Jabbar, Jamil Ahmad, "Fuzzy based multi-criteria vertical handover decision modeling in heterogeneous wireless networks", Multimedia Tools and Applications, Springer US, Vol. 76, No. 23, (2017), pp.23
- **34.** Sohail Jabbar, Muhammad Asif Habib, Abid Ali Minhas, Mudassar Ahmad, Rehan Ashraf, Shehzad Khalid, Kijun Han, "Analysis of Factors Affecting Energy Aware Routing in Wireless Sensor Networks", Wireless Communication and Mobile Computing, Wiley, Vol., No., (2017), pp.
- **35.** Shahbaz Ahmad, Muhammad Asif, Ramzan Talib, Muhammad Adeel, Muhammad Yasir, "Surveillance of Intensity Level and Geographical Spreading of Dengue Outbreak among Males and Females in Punjab, Pakistan: A Case Study of 2011", Journal of Infection and Public Health, Vol., No., (2017), pp.
- **36.** Shahbaz Ahmad, Muhammad Asif, Muhammad Majid, Muhammad Waleed Ashraf, Muhammad Hasanain Chaudary, Manazza Iqbal, "An Effective Study of Geographical Pattern and Intensity of Dengue Epidemic among Females in Punjab, Pakistan", Journal of Engineering Technology, Vol. 7, No. 3, (2017), pp.3
- **37.** Muhammad Kashif Hanif, Muhammad Umer Sarwar, Ramzan Talib, Hassan Ajmal, Muhammad Asif, "Incorporating Parallel Computing Education at Undergraduate Level in Developing Economies", Journal of Engineering Technology, Vol. 6, No. 3, (2017), pp.3
- **38.** Javed Iqbal, Muhammad Asif, Muhammad Kashif Hanif, Muhammad Qasim Hunain and Muhammad Hasanain Chaudary, "Ad Tracking: Advertisement Tracking using Graphics Processing Unit", Journal of Engineering Technology, Vol. 6, No. 2, (2017), pp.2

- **39.** Sohail Jabbar, Muhammad Asif Habib, Abid Ali Minhas, Mudassar Ahmad, Rehan Ashraf, Shehzad Khalid, Kijun Han, "Analysis of Factors Affecting Energy Aware Routing in Wireless Sensor Network", Wireless Communication and Mobile Computing, Vol., No., (2017), pp.
- **40.** Atif Nazir, Rehan Ashraf, Nauman Ali, Mudassar Ahmed, Sohail Jabbar, Faisal Riaz, "An Efficient Image Retrieval using a fusion of color and shape features.ID#PONE-D-17-37809", Plos-one, Vol., No., (2017), pp.
- **41.** Ayesha Tahir, Imran Mumtaz, Mudassar Ahmad, "Comparison of OLSR and DSDV Routing Protocols in Wireless Sensor Network by Using NS-2", Technical Journal, UET Texila., Vol., No., (2017), pp.
- **42.** Muhammad Ayzed Mirza, Muhammad Asif Habib, Muhammad, "Optimized Energy Ingestion in IoT Enabled Sensor Nodes: A Survey", Journal of Software Engineering & Intelligent Systems (E-ISSN: 2518-8739), Vol. 2, No. 3, (2017), pp.3
- **43.** Aroosa Ramzan, Muhammad Asif Habib, Muhammad Haris Abid and Mudassar Ahmad, "Mechanics User Reflective Innovative Model for Educational Games", Annals of Emerging Technologies in Computing (AETiC), Vol. 2, No. 1, (2017), pp.1
- **44.** Shahbaz Ahmad, Muhammad Asif, Muhammad Majid, Muhammad Waleed Ashraf, Muhammad Hasanain Chaudary, Manazza Iqbal, "An Effective Study of Geographical Pattern and Intensity of Dengue Epidemic among Females in Punjab, Pakistan (Impact Factor=0.91)", Journal of Engineering Technology, Vol. 7, No. 3, (2017), pp.3
- **45.** Shahbaz Ahmad, Muhammad Asif, Ramzan Talib, Muhammad Adeel, Muhammad Yasir, "Surveillance of intensity level and geographical spreading of dengueoutbreak among males and females in Punjab, Pakistan: A case studyof 2011 (impact factor =1.4)", Journal of Infection and Public Health, Vol. No., (2017), pp.

2.2 Conferences

- 1. Shahbaz Ahmad, Dr. Muhammad Asif, Muhammad Majid, Manaza Iqbal, Muhammad Adeel, "An Effective Study of Geographical Flow and Intensity of Dengue Outbreak among Males in Punjab, Pakistan", 3rd ICHLSR Bangkok International Conference on Healthcare & Life-Science Research, Venue: Bangkok, Thailand, (2017)
- 2. Ahcene Bounceur, Madani Bezoui, Umber Noreen, Reinhardt Euler, Mohammad Hammoudeh, Sohail Jabbar, "LOGO: A New Distributed Leader Election Algorithm in WSNs with Low Energy Consumption", ICFITT EAI International Conference on Future Internet Technologies and Trends, Venue: Surat, India, (2017)
- 3. Sohail Jabbar, Abid Ali Minhas, Mudassar Ahmad, Syed Hassan Ahmad, "A Novel Energy Aware Design for Clustered Wireless Sensor Networks", International Conference on Future Intelligent Vehicular Technologies, Future 5v, Springer, Venue: Islamabad, (2017)
- **4.** Mudassar Ahmad, Sohail Jabbar, "A Review of Internet of Things (IoT) Connectivity Techniques", International Conference on Future Intelligent Vehicular Technologies, Springer Future 5v, Venue: Islamabad, Pakistan. (2017)
- **5.** Mudassar Ahmad, Sohail Jabbar, "Modeling and Simulation of Resource Constrained Vaccination Strategies and Epidemic Outbreaks", International Conference on Future Intelligent Vehicular Technologies, Springer Future 5v, Venue: Islamabad, Pakistan, (2017).
- **6.** Ground Robot for Alive Human Detection in Rescue Operations, "Naeem Farooq, Muhammad Adeel, Umar Ilyas, Sohail Jabbar", 6th International Conference on Information and Computer Networks (ICICN 2018), Venue: Kuantan, Malaysia, (2017)

- 7. Muhammad Asif Habib, Mudassar Ahmad, Nasir Mahmood, Rehan Ashraf, "An Evaluation of Role Based Access Control Towards Easier Management Compared to Tight Security", International Conference on Future Networks and Distributed Systems, Venue: Cambridge, UK, (2017)
- 8. Ulfat Imdad, Muhammad Asif Habib, Mudassar Ahmad, Nasir Mahmoud, Rehan Sahraf, "Auto Configuration Based Enhanced and Secure Domain Naming Service for IPV-6 Internet of Things", International Conference on Future Networks and Distributed Systems, Venue: Cambridge, UK, (2017)
- **9.** Muhammad Naeem, Rehan Ashraf, Nouman Ali, Mudassar Ahmad, Muhammad Asif Habib, "Bottom up Approach for Better Requirements Elicitation", International Conference on Future Networks and Distributed Systems, Venue: Cambridge, UK, (2017)
- **10.** Muhammad Yasir, Muhammad Asif Habib, Muhammad Shahid, Mudassar Ahmad., "Agent-based Modeling and Simulation of Virus on a Scale-Free Network", International Conference on Future Networks and Distributed Systems, Venue: Cambridge, UK, (2017)
- **11.** Mudassar Ahmad, Muhammad Asif Habib, Rehan Ashraf, Muhammad Shahid, "Enhancement in Data-Recovery and Re-Transmit Mechanisms of TCP", IEEE 42nd Conference on Local Computer Networks (LCN)., Venue: Singapore, (2017)
- **12.** Junaid Chaudhry, Kashif Saleem, Rafiqul Islam, Ali Selamat, Mudassar Ahmad and Craig Valli, "AZSPM: Autonomic Zero-Knowledge Security Provisioning Model for Medical Control Systems in Fog Computing Environments", IEEE 42nd Conference on Local Computer Networks (LCN)., Venue: Singapore, (2017)
- **13.** Nadeem Faisal, Javier de Andres-Suarez, Martin Gonzalez-Rodriguez, Daniel Fernandez-Lanvin, Mudassar Ahmad, Muhammad Asif Habib, "Impact of Web Design Features on Irritation for E-commerce Websites", The 33rd ACM Symposium On Applied Computing (SAC)., Venue: France, (2017)
- **14.** Tanveer Younis, Mudassar Ahmad, Rehan Ashraf, Muhammad Asif Habib and Syed Hassan Ahmed, "A Review of Current Security Issues in Internet of Things (IoT)", EAI International Conference on Future Intelligent Vehicular Technologies, Venue: Islamabad, Pakistan, (2017)
- **15.** Habib ur Rahman, Muhammad Asif, Mudassar Ahmad, "Future Applications and Research Challenges of IOT", The 7th International Conference on ICT, Venue: Karachi, Pakistan, (2017)
- 16. Bushra Zafar, Rehan Ashraf, Mudassar Ahmad, Muhammad Asif Habib, "Modelling and Simulation of Resource Constrained Enhanced Vaccination Strategies and Optimized Epidemic outbreaks", IEEE 15 International Conference on Frontiers of Information Technology (FIT)., Venue: Islamabad, Pakistan, (2017)
- 17. Ulfat Imdad, Waqar Ahmad, Muhammad Asif, Atiab Ishtiaq, "Classification of Students Results Using KNN and ANN.", The 13th International Conference on Emerging Technologies (ICET-2017), Venue: Capital University of Science and Technology, HEC, (2017)
- **18.** Shahla Gul, Muhammad Asif, Waqar Ahmad, Uzair Ahmad, "Teaching Programming: A Mind Map Based Methodology to Improve Learning Outcomes", The 7th International Conference on Information and Communication Technologies, Venue: Institute of Business Administration Karachi and IEEE, (2017)
- **19.** Shahbaz Ahmad, Muhammad Asif, Muhammad Majid, Muhammad Afzal Naveed, "An Effective Study of Geographical Flow and Intensity of Dengue Outbreak among Males in

- Punjab, Pakistan.", The 3rd ICHLSR Bangkok International Conference on Healthcare & Life-Science Research, Venue: Kasetsart University, Bangkok, Thailand, (2017)
- 20. Muhammad Adeel, Muhammad Asif, Muhammad Naeem Faisal, Uzair Ahmad, Shahbaz Ahmad, "Simulation Model-Based Tutorial For Tumor Growth And Its Resistance Against Chemotherapy ", The 3rd ICHLSR Bangkok International Conference on Healthcare & Life-Science Research, Venue: Organized by Kasetsart University, Bangkok, Thailand, (2017)
- **21.** Awais Ahmad, Muhammad Asif, Syed Talha Ali Hamdani, "A Review of Analysis and Control of Yarn Faults.", The 1st International Conference on Technical Textiles, Venue: National Textile University, Faisalabad, (2017)
- **22.** Muhammad Asif Habib, Mudassar Ahmad, Nasir Mahmoud, Rehan Ashraf, " An Evaluation of Role Based Access Control Towards Easier Management Compared to Tight Security", International Conference on Future Networks and Distributed Systems, Venue: Cambridge, UK, (2017), Venue: Cambridge, UK, (2017), (2017)
- 23. Muhammad Naeem, Rehan Ashraf, Nouman Ali, Mudassar Ahmad, Muhammad Asif Habib, "Bottom up Approach for Better Requirements Elicitation", International Conference on Future Networks and Distributed Systems, Venue: Cambridge, UK, (2017), Venue: Cambridge, UK, (2017), (2017)
- **24.** Mudassar Ahmad, Muhammad Asif Habib, Rehan Ashraf, Muhammad Shahid, "Enhancement in Data-Recovery and Re-Transmit Mechanisms of TCP", IEEE 42nd Conference on Local Computer Networks (LCN)., Venue: Singapore, (2017), (2017)
- 25. Bushra Zafar, Rehan Ashraf, Mudassar Ahmad, Muhammad Asif Habib, "Modelling and Simulation of Resource Constrained Enhanced Vaccination Strategies and Optimized Epidemic outbreaks", IEEE 15 International Conference on Frontiers of Information Technology (FIT)., Venue: Islamabad, Pakistan, (2017), Venue: Islamabad, Pakistan, (2017), (2017)
- **26.** Naeem, Rehan Ashraf, Syed Talha Hamdani, "Use of Bag of Visual Words Model for Textile Image Classification and Retrieval, ICTT-2017", ICTT-2017, 1st International conference on technical textile (09-10 Nov-2017), Venue: National Textile University, Faisalabad, Pakistan, (2017)
- 27. Tanveer Younis, Mudassar Ahmad, Rehan Ashraf, Muhammad Asif Habib, and Syed Hassan Ahmed, "A Review of Current Security Issues in Internet of Things (IoT)", 2nd EAI International Conference on Future Intelligent Vehicular Technologies (Future5V), Venue: Islamabad, Pakistan, (2017)
- 28. Atiab Ishtiaq, Mudassar Ahmad, Muhammad Asif Habib, Sohail Jabbar, and Syed Hassan Ahmed, "A Review of Internet of Things (IoT) Connectivity Techniques", International Conference on Future Intelligent Vehicular Technologies (Future5V) 2017, Venue: Islamabad, Pakistan, (2017)
- 29. Shahbaz Ahmad, M. Tanveer Afzal, "Combining co-citaion and metadata for recommending more related paper", 15th International Conference on Frontiers of Information Technology (FIT'17), Venue: Islamabad, Pakistan, (2017)
- **30.** Muhammad Adeel, Muhammad Asif, Muhammad Naeem Faisal, Uzair Ahmad, Shahbaz Ahmad, "Simulation Model-Based Tutorial For Tumor Growth And Its Resistance Against Chemotherapy", 3rd ICHLSR Bangkok International Conference on Healthcare & Life-Science Research, Venue: Kasetsart University, Bangkok, Thailand, (2017)

2.3 Training & Developments

Following faculty members and staff have trainings:

SR#	Date	Name	Designation	City/Country	Duration
1	Jan 2017	Dr. Muhammad Asif	АР	Islamabad	5 Days
2	Dec 217	Dr. Rehan Ashraf	АР	NTU	1 Day

3 Events Organized by Technical and Non-Technical Societies

3.1 CS Sports Society Organized CS Sports:

CS Sports Society organized CS Sports Escapade from Dec 11, 2017, to Dec 15, 2017, All Students along with the faculty members were involved in it, in the inauguration ceremony, Dean Academics (Dr. Tahir Hussain), Chairman DCS (Mr. Waqar Ahmad), Convener CS Sports Society (Mr. Muhammad Ayzed Mirza) and other faculty members of DCS were present. The event was inaugurated with a traditional ribbon cutting ceremony. Afterward, dean academics and chairman DCS formally started the event by showing the great sportsman spirit through playing some cricket.







3.2 CS Sports Prize Distribution Ceremony

CS Sports and CS Society collaboratively organized CS Sports Escapade-2017 Prize Distribution Ceremony, held on December 15, 2017. In Prize Distribution Ceremony, Dean Faculty of Science (Dr. Zahid Rizwan, Chairman DCS (Mr. Waqar Ahmad), Convener CS Sports Society (Mr. Muhammad Ayzed Mirza) and All faculty members of DCS were present. Dr. Zahid Rizwan was the chief guest and distributed the winner and runner-up trophies among students.



3.3 Alumni Meet-up & Bonfire 2017

On 15th December 2017 DCS Club Societies (CS & SE) arranged a healthy event of Alumni Meet up & Bonfire party to strengthen the relations of current students with alumni to empower their professional scope and market pace. Alumni from 2009th to 2013th batch were warmly invited and hosted over there. Dean Faculty of Sciences were invited as chief guests of the event. Event stood very informative and fruitful for undergraduate students as they got the edge to have a handshake with professionals of their domain in a quite cooperative and friendly atmosphere and learned a lot about different tools and technologies that are being used for software development and maintenance in the modern era. Both faculty and alumni also motivated students to be more enthusiastic and devoted to learning more and develop a professional attitude from the beginning. The Prize Distribution ceremony was also the part of this event in which winners of the intra-departmental sports competition were awarded trophies. Overall the event stood very remarkable and cast a positive impact on all the audience.



3.4 Cyber Issues in Medical and Healthcare Infrastructure

Junaid has over 15 years of exciting experience in academia, industry, law- enforcement, and in the corporate world in information and cyber security domain. After getting his Ph.D. in Cyber Security from Ajou University, Junaid obtained training at Harvard Business School, University of Amsterdam, and Kaspersky Research Lab in cyber hunting and training. He is a Senior Member of IEEE, a Practicing Engineer, member of High Technology Crime Investigation Association (HTCIA), Australian Computing Society, Australian Information Security Association, and frequently volunteers in promotion of science through public speaking, conference organization, and by editing the scientific journals i.e. IEEE Access, Computer and Security by Elsevier, IEEE Internet Policy and IEEE Future Directions, and board member of tech startups. Currently, he is conducting cutting-edge research on cyber security vulnerabilities and their countermeasures in healthcare and public health sector at Security Research Institute (SRI), Edith Cowan University. He has authored three books and 75+ research papers. He received awards for his research achievements from Government of South Korea, Qatar, Pakistan and from Saudi Arabia. Junaid believes in collaborative research and actively seeks opportunities to collaborate in developing solutions in cross-disciplinary domains.



3.5 Presentation of Research Paper and participation in FIT 2017 by Mr. Shahbaz Ahmad Sahi

Mr. Shahbaz Ahmad Sahi, Lecturer at Department of Computer Sciences, National Textile University, Faisalabad has presented his research article in 15th International Conference on Frontiers of Information Technology (FIT'17) held at Islamabad, the beautiful capital of Pakistan. He also attended the tutorials on "Big Data and Use of Big Data" by Mudasser F. Wyne, National University, San Diego, USA.

Mr. Shahbaz Ahmad Sahi is carrying out research in Research Paper Recommender Systems and Information Retrieval in Digital Libraries.



3.6 Short Course Certificate Distribution Ceremony

To acknowledge and reward the efforts of the 71 candidates from the government sector, industry, different universities, and institutes, a Certificate Distribution Ceremony was held at NTU Main Hall on Friday, November 3, 2017. Dean FOS, Professor Dr. Zahid Rizwan was the

Chief Guest. Chairman Department of Computer Science, Mr. Waqar Ahmad, faculty members and staff also esteemed the ceremony.

The ceremony started with the recitation of Holy Quran. Chairman Department of Computer Science, Mr. Waqar Ahmad presented an overview, objective and intended outcome of the offered short-courses (i.e. Mobile App. Development, Web & Graphic Designing, Web Development using PHP & Wordpress, .net programming, Database Management System and Microsoft Office Specialist). Moreover, he addressed the audience, praised the program coordinator (Mr. M. Ayzed Mirza), course instructors (Mr. Muhammad Shahid, Mr. Shahbaz Ahmad, Mr. M. Ayzed Mirza, Mr. Abid Bashir and Mr. Muhammad) and successful candidates for their countless efforts. Dean FOS, Professor Dr. Zahid Rizwan, Mr. Waqar Ahmad and Dr. M. Asif Habib distributed certificates amongst the successful candidates. At the end of the ceremony, Chief Guest, Professor Dr. Zahid Rizwan congratulated the stakeholders and suggested that the department should offer the advanced version of these courses in next phase. The event was an achievement not only for the individuals who received the certificates but also for the university and specifically for the department. A proud moment indeed!



3.7 Industrial Tour BSCS-7th

For the professional development of final year students of Department of Computer Science, an industrial tour was arranged. The students visited "BullsEye Communications" located in Islamabad the beautiful capital of Pakistan. BullsEye Communications is a new breed creative agency that is one of the leading international industry in IT domain with technical expertise in Graphics Designing, App Development and 3D-Animation with latest tools and technologies. Regional manager Ali Waraich warmly hosted the students and tour coordinators Mr. Raheel Zafar and Mr. Muhammad. He briefed in detail about their place and pace in market, how they are working as a team and about their professional expertise in different tools.

The tour stood very fruitfully and informative for the students and they get much inspiration and motivation about their worth in their respected field.



3.8 Mr. Ulfat Imdad, MS Scholar Presented His Research Paper

Mr. Ulfat Imdad, MS Scholar of the Department of Computer Science NTU presented his research article in the 13th International Conference on Emerging Technologies (ICET-2017) organized by Capital University of Science and Technology, HEC, and IEEE Mr. Ulfat is carrying his research under the supervision of Dr. Muhammad Asif (AP/Director Graduate Programs FOS) in a joint program with Queen's University, Canada.



3.9 Presentation of Research Paper by Mr. Shahbaz Ahmad

"Mr. Shahbaz Ahmad, Ph.D. scholar (Computer Science) at Department of Computer Sciences National Textile University, Faisalabad has presented his research article in an international conference held at Kasetsart University which is one of the oldest and top Universities in Thailand. This was funded by HEC Pakistan.Mr. Shahbaz is carrying his research on GIS-Based surveillance systems under the supervision of Dr. Muhammad Asif (AP/Director Graduate Programs FOS). Mr. Shahbaz has already published a number of impact factor journal papers and international refereed conference papers from his Ph.D. work"



3.10 Mr. Shahbaz Ahmad Ph.D. (CS) scholar won a travel grant from HEC

"Mr. Shahbaz Ahmad Ph.D. (CS) scholar under the supervision of Dr. Muhammad Asif at Department of Computer Science, National Textile University, Faisalabad has won a travel grant from HEC to present his Ph.D. research paper titled"

"An Effective Study of Geographical Flow and Intensity of Dengue Outbreak among Males in Punjab" in the "3rd ICHLSR Bangkok - International Conference on Healthcare and Life Science Research" on 25-26.11.2017 in Thailand



3.11 Department of Computer Science, Final Year Project Display'17 at NTU IT Center

Final Year Project (FYP) Display-2017 for the BSCS students of batch 2013-2017 was held in the ground and first floor of IT Center from 24-08-2017 to 25-08-2017. Twenty-one FYPs were displayed including mobile apps, games, conventional and textile industry-oriented software were displayed. All the projects were approved after internal and external evaluation. Some of the titles are Alumni Club, Exam Creator System, Online File Tracking System, Death Race, KnitProj, Fabric Processing Management System, Knitting Calculation App, NTU LMS, Online Student Portal (Project Coliseum), NTU Exam Management System, Bird Eye, Object

Recognition System, Software House Management System, Docket for All, Knight Hybrid Mission, Online Recruitment System, Electronic Health Recording and Smart Appointment, Health Care Monitoring System for Wearable Sensors and HR System of NTU (Leave Portal). Representatives from IT and textile industries visited the event. Mr. Saleem Akhtar (Sr. Manager IT, Ibrahim Fibers), Mr. Muhammad Ather Mujahid (Sr. Manager IT, Sitara Chemicals), Mr. Rana

Shahid Masood (Dy. General Manager IT, Masood Textiles) and Mr. Kashif Hussain (General Manager IT, Kalash Industries) also visited the event and appreciated the student for their projects.

Prof. Dr. Tanveer Hussain (Rector NTU) accompanied by Prof. Dr. M. Tahir Hussain (Dean Academics), Dr. Zahid Rizwan (Dean FoS) and Mr. Zulfiqar Ahmad (Deputy Director Finance) inaugurated the event on Thursday, August 24, 2017. They visited the projects and appreciated the efforts of students and Computer Science department. Evaluators of the projects were Dr. Muhammad Sheraz Arshad Malik (Asst. Prof. GCU Faisalabad), Dr. Ahsan Latif (Asst. Prof. Agriculture University, Faisalabad) and Mr. Shakeel Faridi (Manager IT, Masood Textiles, Faisalabad).



3.12 Participation of Dr. Muhammad Asif as an adviser in P. Public Service Commission

Dr. Muhammad Asif Assistant professor /Director graduate programs faculty of science along with Mr. Mohsin Razi Ambassador (R) and Prof. Dr. Fakhar Lodhi, Dean Gift University has served Punjab public service commission as an advisor for the selection of Assistant professors computer science in the higher education department of Punjab. This is a great honor for National Textile University that one of its faculty members served the commission in Rawalpindi, Lahore, and Faisalabad.



3.13 XTC Super Gear Prize Distribution Ceremony

Prize Distribution Ceremony held at the end of the mega event on 20th May under the Observation of Chairman of DCS, Waqar Ahmed. The shields, Certificates & Trophies distributed among the Winners, Runner-ups, Participants as well as Students of DCS, FD, BBA & TD. There was a tie between the University of Central Punjab (FSD) & The University of Faisalabad for the "Home Trophy". For seek further click on the below-mentioned link.



3.14 Goonj-17 XTC Super Gear Annual Event of DCS

Department of Computer Science with the collaboration of CS Society, MS Scholar Society, Character Building Society, and Sports Society & Executive Society arranged the Mega Event named as "XTC Super Gear_GOONJ17" which contained technical as well as non-technical Competitions. XTC is a national level event. More than 1500 visitors and participants from 30 different institutes of Pakistan Participated in it.



3.15 Goonj-17 XTC Super Gear Annual Event of DCS, Inauguration Ceremony

Dr. Tanveer Hussain, Rector NTU, inaugurate the Mega Event named as "XTC Super Gear_GOONJ17". Dr. Zafar Javed (Registrar NTU), Dr. Zahid Rizwan(Dean FOS), Farooq Jamal (Director Business incubation center), Muzammal Hussain(Advisor Student), Parvaiz Akhtar (Sports Officer), Waqar Ahmad (Deputy Director Officer & Chairman of DCS), M.ZABIHULLAH Khan(Controller of Examinations) as well Respected faculty of Department of Computer Science Joined this ceremony.



3.16 Department of Computer Science is going to conduct annual event XTC GOONJ'17

Department of Computer Science is going to conduct the annual event XTC GOONJ 17' after the remarkable success of the last three sequels of the XTC. We are expecting the attendance of 2500-3000 students this time from all around Pakistan.



3.17 NTU has Signed an MOU with MTM for Academic Industrial Linkage

NTU has signed an MOU with MTM for academic-industrial linkage. Both organizations will collaborate for industrial research activities and will share resources with each other. This will include student internship program for student grooming..

3.18 NTU has signed an MOU with UAF for RESEARCH collaboration, academic & Resources.

NTU has signed an MOU with UAF for collaboration in research, academic, Project and sharing of Resources. Dr. Muhammad Asif Habib (Assistant Professor) from NTU and MR. Tasleem Mustafa from UAF will be the focal person.



19-CS Faculty Member Dr. Muhammad Asif Habib selected as a member of NCRC, HEC

Dr. Muhammad Asif Habib (Assistant Professor) has been selected as a member of National Curriculum Revision Committee (NCRC) HEC. The NCRC will work on the curricular revision of BS and MS Programs in the feed of Computer Science, Software Engineering, and Information Technology.

This is an honor for the Department of Computer Science, National Textile University that a faculty member of the Department will contribute in the curricular revision of BS and MS program for all Universities of Pakistan under HEC Pakistan.

In this regard, the primary meeting of NCRC in the discipline of CS, IT and SE is scheduled to be held from April o4 - 06, 2017 at LID Hall HEC, Islamabad.



3.19 Industry-Academia Linkage Meeting for IT

Waqar Ahmad, Chairman Computer Science Department, and Mr. Shehzad Ahmad, Director IT participated in a meeting to promote industry-academia linkage which was held at Serena Hotel, Faisalabad on March 14, 2017. This meeting was arranged by Society of IT Professionals (SIP). IT Heads\Representatives of following industries were present:

Klash Pvt Ltd

Arshad Group

United Industries Limited

Serena Hotel

Ibrahim Fibres Ltd,

Sitara Chemical

MK SONS

Sadagat Limited

IT Chairpersons\Representatives of five universities of Faisalabad (University of Agriculture, GC University, University of Sargodha, FAST Chiniot Campus and National Textile University) also participated in the meeting.



3.20 Software Design Workshop

Computer Science Society has successfully organized Software Design Workshop on March 17, 2017, at Lab 3, IT Center. Mr. Shahid is the speaker of this workshop.



3.21 Farewell of Dr. Nouman Ali, A respected faculty member of CS Department

A farewell party was arranged in the honor of Dr. Nouman Ali, a great teacher. He was an asset to the Computer Science Department. All the faculty members of CS Department were present at this special occasion. A shield was awarded to Dr. Nouman Ali by the administration of National Textile University.



3.22 NTU Positions in BARSALEGO 17' Competition at FAST-NU (Chiniot Campus)

National Textile University students took part in Barsalego 17' a Mega Event held in FAST-NU (Chniot Campus) and won significant positions. Overall 2nd position in all institutes who took part in this National Competition. Department of Computer Science and Department of Design prove their abilities and talent in the event with the highest number of positions in their concerned fields. We are looking forward to a bright future of our students in Technical as well as Non-Technical abilities. Following are details of the positions:

Competitions	Position	Student Name	Department
Quizathon	2nd Position	Zeeshan Shabbir	CS
Web Development	2nd Position	Abuzar, Hassan Siddique	CS
E-Gamming (Call of Duty)	1st Position	Tashif Bhatti, Fahad Mehmood, Usama, Hamza Ameer	CS
E-Gamming (Need for Speed)	1st Position	Hussnain Ayub	DMS
Graffiti	1st Position	Mazhar Hussain, Zesshan Ali, Hira Ajmal	DOD
Graffiti	2nd Position	Kashif Jameel, Kashaf Amjad, Ahsan Khalil	DOD
Paint a Dream	1st Position	Kashif Jameel	DOD
Paint a Dream	3rd Position	Mazhar Hussain	DOD
Pencil Sketch	1st Position	Kashif Jameel	DOD
Pencil Sketch	2nd Position	Mazhar Hussain	DOD
Poster Design	2nd Position	Zeeshan Ali, Kashif Jameel	DOD
Photography	2nd Position	Zeeshan Ali	DOD



3.23 Welcome of Dr. Mudassar Ahmad, a new faculty member of CS Department

A dinner was arranged in the honor of Dr. Mudassar Ahmad a new member of Computer Science Department to welcome him to CS family. All the faculty members of CS Department were present at this happy event.



3.24 A delegation of Society of Information Technology Professionals (SIP) visited DCS

A delegation of Society of Information Technology Professionals (SIP) visited Department of Computer Science for Strengthening of Industry-Academia Linkage. President SIP Mr. Saleem Akhtar, Mr. Athar Mujahid (IT Manager Sitara Chemicals) and Mr. Tariq Azhar (IT Manager Sadaqat Group) participated and discussed different ideas for the collaboration between NTU and DCS. The worthy Rector Prof. Dr. Tanveer Hussain endorsed the different ideas proposed by SIP and DCS. As a first step, DCS is going to launch an industry-oriented course from the SIP professionals.



