

STATISTICS NEWSLETTER

Volume : 1

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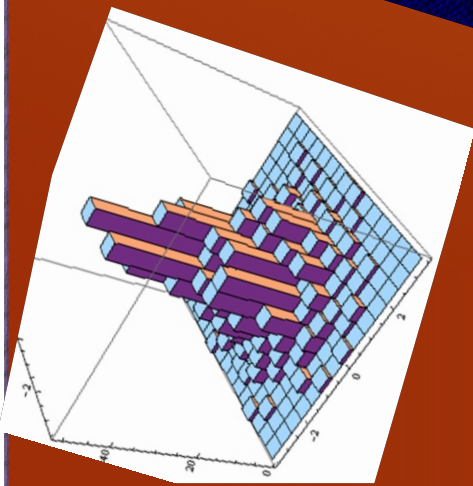
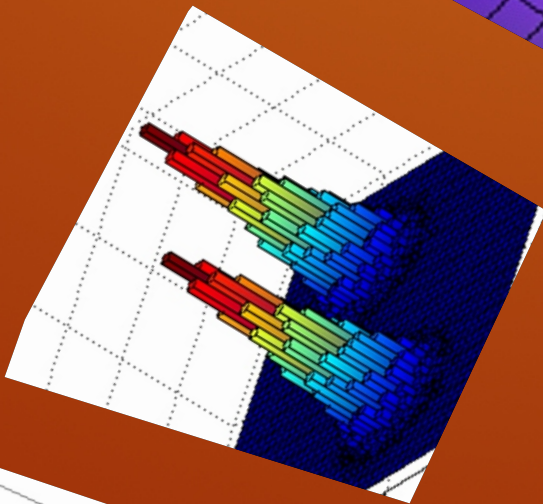
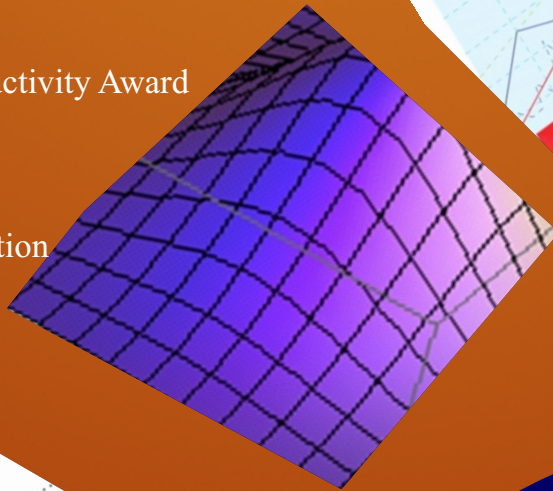
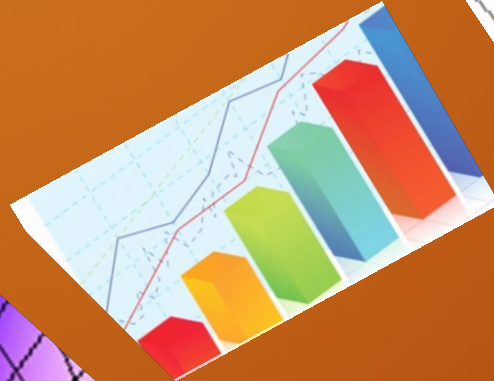
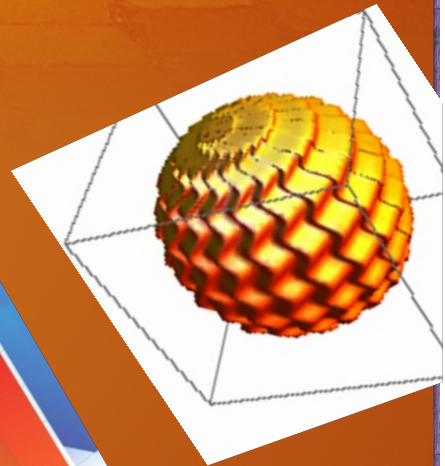
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Message from Head of the Department

We welcome you to Statistics Department at COMSATS Institute of Information Technology (CIIT), Lahore campus. The Department has recently emerged from Department of Mathematics and is offering its services to all other departments of the campus. The Department also offers MS and PhD programs in Statistics. Statistics is an important branch of science and the subject enables us in decision making in diverse areas of life. The Department of Statistics is providing students with latest theoretical developments in the subject alongside giving them training of application of statistical techniques.

Faculty at the Department is rich in research and provides guidance in diverse areas of the subject. Faculty at the Department also provides expertise in statistical software like SPSS, Stata, R, SAS and many more. We assure you that Department of Statistics at CIIT will provide excellent services to its students in particular and to society in general.

Dr. Muhammad Ismail

Editorial

Greetings!

The vision of the department of Statistics is to transform the Society into a knowledge based society by promoting efficient, sustainable and effective research atmosphere in the country. Statistics is an emerging science which may help the researchers to create new ideas in different fields, such as Bio sciences, Engineering, Humanities and social Sciences. By keeping this need in view, Department of Statistics is not only helping the researchers from other fields by providing its expertise through Centre for Statistical Consultancy and Training (CSCT) but also the faculty is trying to open new horizons through writing their research papers. The aim of this volume is to support their efforts in the development and creating a research atmosphere in the campus.

We wish that this department may flourish and touch the heights in this year.

Dr. Riffat Jabeen

Congratulations

For Joining as Director CIIT, Lahore

Prof. Dr. Qaisar Abbas succeeded his PhD degree in Human Resource Development from Nankai University Tianjin China. He has also executed Post-Doctoral Research at Cardiff Business School, Cardiff University, UK. He is also a plentiful researcher who has produced a consistent stream of research papers. All over his career at CIIT, he performed various additional responsibilities at CIIT including, Dean Faculty of Business Administration, Provost, Chief Proctor, Project Director of Infrastructure Development Project CIIT, Member of Campus Selection Committee, Convener Campus Inspection Committee, Convener Board of Studies of Management Sciences, and Member Board of Faculties of Business Administration and Information Sciences. We wish that under his kind guidance, CIIT Lahore will flourish and touch new stature.

Congratulations to Dr. Muhammad Ismail On Becoming Incharge Department of Statistics

Dr. Muhammad Ismail holds Ph.D in Applied Statistics from National College of Business Administration & Economics Lahore, Pakistan. He has 17 years teaching experience as well as 15 years experience as HOD department of statistics at Lahore Garrison University. He performed additional responsibility as Registrar at Lahore Garrison University. He also has numerous publications in well reputed international journals. Currently he is working on different projects as Principal Investigator and Co Principle Investigator. We hope that under his kind leadership, department of Statistics will do well.



**Fare-well to
Dr. Muhammd Qaisar Shahbaz
Dr. Saman Shahbaz
Former HOD Department of Statistics
COMSATS Institute of Information Technology
Lahore**



Inauguration Ceremony of CSCT and Workshop on Experimental Design

Statistics has emerged as a most powerful discipline and is among one of the most widely applicable sciences. The department of statistics at CIIT is well aware of the growing demand of statistics in all walks of life. To practically fulfil these needs we have decided to provide a platform which will fulfil statistical needs of organizations, industries, faculties, staff and graduate students among others. It will bridge the gap between academia and industry. The aim is to liaison with the industry by bringing together the experts in different areas, researchers and CIIT Faculty of Department of Statistics.

The inauguration ceremony of the “Centre for Statistical Consultancy and Training CSCT” was held at COMSATS Institute of Information Technology (CIIT), Lahore. The ceremony was held on Friday 30 April, 2015. Ms. Fatima Batool started the proceeding as stage secretary. Ceremony was started with the recitation from The Holy Quran by Mr. M. Farooq. After that Dr. M. Mohsin was invited to highlight the need of the centre. In his address he also highlighted the capacities of CSCT. He said CSCT is established with dual purpose in mind one is consultancy and other is training. The centre is especially capable in providing assistance with industrial issues, six sigma, statistical quality control and market surveys. The centre will organize workshops on softwares like AMOS, SPSS, Minitab, E-views, Ms-Excel, R-Language, Design Expert etc. He further added our clients will be able to proper statistical tools as our main objective is to statistically educate them. The centre will also held statistical talks, seminars on regular basis. In this regard the very first step from the centre is to present a workshop in Experimental Design.

After this the director of CIIT Dr. Muhammad Ahmed Bodla was invited to share his views. He highly appreciated the initiative of CSCT by the Statistics Department. He gave many warm greeting and wish success for the centre. With the completion of his speech the inauguration ceremony was officially closed. The honorable guests were invited to enjoy tea.

After the tea break first workshop entitled “Design of Experiment for Beginners with Design Expert” from the platform of CSCT was started. The speaker of the workshop was Dr. Farrukh Shehzad. The workshop comprises of two session each of 2 hours. The second session purely based on the software “Design Expert” in lab. At the end of the workshop Head of Department, Dr. Moshin, presented souvenir to Dr. Farrukh Shehzad and certificates to the participants.



Five Members Received Research Productivity Award for 2014



News Feeds

- **Dr. Mohammad Mohsin** has secured a post doctoral position for a period of 12 months at EFDL Switzerland. EPFL is considered as one of the most prestigious universities in the world for engineering and sciences. The focus of his research will be Survival analysis and its application in accelerated failure models.
- **Dr. Tajammal Hussain** has been awarded postdoctoral fellowship by HEC-Pakistan for a period of 9-12 months. He has joined Professor. Dr. Jacob Kjaer Eskildsen, at the Department of Business and Technology, Aarhus University- Herning, Denmark, in August 2015. His core field of research would mainly focus on integration of sustainable enterprise excellence and the TQM theoretical framework.
- **Ms. Fatima Batool** has been awarded Common Wealth scholarship at University College London for her Ph.D for the period of four years.
- **Dr. Muhammad Noor ul Amin** gave a talk on “Estimation for Population mean in Survey Sampling” at Lahore College For Women University.
- **Dr. Muhammad Noor ul Amin** gave a talk on “Estimation of Population mean in Adaptive Cluster Sampling using Auxiliary Information” at COMSATS, Lahore.
- **Dr. Farrukh Shahzad** delivered a talk on “Design of Experiment for Beginners with Design Expert”.
- Approval of Synopsis of 6 PhD Scholars.
- Approval of MPhil dissertation of 6 scholars.
- **Dr. Muhammad Ismail** was runner up in inter departmental table tennis match.
- Department of Statistics, CIIT Lahore arranged an inter universities poster competition in December, 2015
- **Dr. Tajammal Hussain** attended Workshop on " Internationalization: Climbing the Ladder from 13-14 Oct, 2014. The workshop for CIIT senior leadership on "Internationalization: Climbing the Ladder" i.e. moving ahead in ratings and rankings was arranged by the CIIT, Islamabad at Dream land Hotel, Islamabad
- **Dr. Tajammal Hussain** participated in three day workshop on “Capacity Building in QA at HEIs” jointly arranged by HEC and IM-Peshawar. Theme of the workshop was to develop understanding, realization, and solution for modern era higher education sector.
- **Dr. Muhammd Noor ul Amin** and dr Farrukh Shahzad delivered lecture on “Orientation of SPSS and STATA” at COMSATS, Lahore.
- **Dr. Aamir Sanaullah** and **Dr. Farukh Shahzad** attended an international conference organized by Islamic Countries Society of Statistical Sciences.

Visit of World Bank

Visit of World Bank Consultant Mr. DEEPAK BALLANI to COMSATS

Organized by

Syed Muhammad Irfan
Assistant Professor,
Department of Statistics,
COMSATS Institute of Information Technology, Lahore.

Mr. Deepak Ballani is an engineer by profession having expertise in international business. He is best known as a senior professional with nearly 23 years of experience in the areas of program management, technology modernization, market and business research, operational excellence, business development & consultancy services. He has also served with Tata Consultancy Services among the top 10 technology firms in the world, providing consultancy services and business solutions. In his current role as consultant to Steinbeis Centre - a Consultant to the World Bank, He is conducting a study on Punjab-Punjab industrial cooperation. The objective of the study is to suggest and recommend appropriate solutions that could be implemented in short, medium and long term for enhancing cooperation between industries of 2 Punjab's.

Objective of the visit

- To meet relevant industry & business associations, government counterparts, relevant institutions, existing exporters etc to get first hand ideas of possible implement able solutions to enhance cooperation on either side of India and Pakistan (Punjab-Punjab).
- To discuss with key representative associations in Light Engineering sector (including auto components, bicycles, hand tools, machine tools, castings and forgings), agriculture implements, textiles, pharmaceuticals & sporting goods



Seminar on SAP

Organized by
Dr Faisal Tehseen Shah
Assistant Professor,
Department of Statistics,
COMSATS Institute of Information Technology,
Lahore.

Mr. Umar from Erpkon, gave a talk of two hours on SAP in a seminar arranged by Department of Statistics at CIIT Lahore on 24 March, 2015. The talk highlighted the usefulness of SAP in Finance, supply chain Management, Human resource Management and Quality Management. Dr. Muhammad Mohsin attended the seminar and at the end of the seminar gave shield to the invited speaker.



Publications



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- 4 **Hussain, T. and Saleem, S. (2014).** Do Employees' Job Satisfaction, Involvement and Commitment Mediate Relationship Between Quality of Work Life and Employees' Retention? *World Applied Sciences Journal*, 30 (2), 245-252.
- 5 **Ismail, M., Hanif, M. and Shahbaz, M. Q., (2015).** Generalized Estimators for Population Mean in the Presence of Non-Response for Two-Phase Sampling. *Pakistan Journal of Statistics*, 31(3), 295-306.
- 6 **Saman, S., Shahbaz, M.Q., Nadeem, S.B., Ismail, M., (2014).** The Trivariate Pseudo Inverse Weibull Distribution. *Caspian Journal of Applied Sciences Research*, 3(9): 24-28.
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- 12 **Faisal Tehseen Shah, Abeer Imam, R.W. Qureshi and Sehrish Hanif (2014).** Comparison of Microfinance Institutions: Akhuwat Foundation Vs Grameen Bank. *Science International Lahore*, 26(4), 1851-1854.
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- 14 **Faisal Tehseen Shah, Fahmeed Idrees, Abeer Imam, Tahir Aziz Khan, Aiza Mariyam (2014).** Impact of Job Satisfaction on Organizational Commitment in IT Sector Employees of Pakistan. *Journal of Applied Environmental and Biological Sciences*, 4(8), 190-197.



- 15 Faisal Tehseen Shah, Amara Arshed, Abeer Imam and Junaid Arshed (2014). Impact of SERVQUAL on Client Satisfaction under the Mediating Effect of Disconfirmation: A Study of Social Security Hospitals of Punjab. *Journal of Applied Environmental and Biological Sciences*, 4(11), In Press.
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- 17 Irfan, S. M., Kee, D. M. H., Qureshi, R. W. and Hussain R. (2014). Identification of Critical Success Factors of TQM Implementation in Health Care Sector of Pakistan Using Pareto Analysis Approach. *Science International-Lahore*, 26 (5), 2603-2616.
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- 23 Jabeen, R., Sanaullah, A., and Hanif, M. (2014). Generalized Estimator for Estimating Population Mean Under Two Stage Sampling. *Pakistan Journal of Statistics*, 30(4), 465-486.
- 24 Jabeen, R., Sanaullah, A., and Hanif, M. (2015). Efficient Class of Exponential Estimator for Estimating Population Mean In Two Stage Sampling. *Pakistan Journal of Statistics*, 31(6), 683-696.
- 25 Saleha. S., Khan, H., Sanaullah, A. and Khan. M.A., (2014). A Class of Improved Estimators for Population Mean using Full Information in Single and Two-Phase Sampling. *Journal of Statistics*, 21, 103-117.
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- 29 Riaz, N., Noor-ul-amin M. and Hanif, M. (2014). Regression-Cum-Exponential Ratio Type Estimators for The Population Mean, *Middle-East Journal of Scientific Research*, 19 (12), 1716-1721.
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- 31 Yaseen, U., Noor-ul-amin, M. and Hanif, M. Exponential Ratio and Product Type Estimators of Finite Population Mean. *Journal of Statistics and Management*, accepted.
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- 33 Sanaullah, A., Noor-ul-amin, M., Hanif, M., and Singh, R. (2015). Generalized Exponential Chain Estimators Using Two Auxiliary Variables for Stratified Sampling with Non-Response. *Science International Lahore*, 27(2), 901-915.
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- 35 Ayaz, A., Sanaullah, A., and Hanif, M. (2015). Generalized Multivariate Exponential Type (GMET) Estimator Using Multi-Auxiliary Information under Two Phase Sampling. *Pakistan Journal of Statistics*. In Press.
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- 39 Batool, F., and Shabbir, J. A Two Stage Design for Multi Variate Estimation of Proportions. *Communication in Statistics Theory and Method*, In Press.
- 40 Batool, F., Shabbir, J., Hussain, Z. On Estimation of a Sensitive Quantitative Mean using Blank Cards. *Communications in Statistics - theory and method*, accepted.
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REPORT ON FIRST STATISTICAL POSTER COMPETITION HELD AT ART GALLERY, COMSATS INSTITUTE OF INFORMATION AND TECHNOLOGY, LAHORE ON 9 DEC, 2015

ORGANIZING COMMITTEE:

Dr. Muhammad Ismail

Dr. Aamir Sanaullah

Dr. Muhammad Noor Ul Ameen

Dr. Farrukh Shahzad

The High-level Occasion of First Statistical Poster Competition 2015 was arranged by Centre for Statistical Consultancy and Training, Department of Statistics on 9th of December, 2015 at Art Gallery, COMSATS Institute of Information and Technology, Lahore. The organizing committee for this occasion was consist^{ed} of Dr Muhammad Ismail, Dr Aamir Sanaullah, Dr Muhammad Noor^{ul} Ameen and Dr Farrukh Shahzad. It was our great honor to spend th^e day with friends from different Universities & Institutes. Following Universities/Institutes participated in the First COMSATS Statistical Poster Competition 2015.

- COMSATS , Institute of Information and Technology
- Lahore College for women University, Lahore
- Government College University, Lahore
- FC College University, Lahore.
- Institute of Allied Health Sciences, Children Hospital Lahore
- The University of Lahore.
- Lahore Garrison University, Lahore.
- University of Veterinary Sciences ,Lahore
- University of Sargodha, Lahore Campus.
- National College of Business Administration and Economics, Lahore.
- University of Management and Technology, Lahore.

The event successfully finished all its sessions with the heartily participation of the students.

A team of jury was also there to evaluate the posters for the winning prizes of Rs.8000/- ,Rs.6000/- and Rs.4000/- respectively. The jury was also given task to decide posters for first 10 positions. The team of Jury was:

Honorable **Dr. Munir Ahmad**, Rector NCBA & E Lahore were with us. **Dr. Munir Ahmad** is currently serving as Chief Editor of Pakistan Journal of Statistics with wide experience in research and Survival data analysis. He is life time President and member of Islamic Countries Society of Statistical Sciences (ISOSS) and also a plentiful researcher in field of Mathematical statistics, Survival data analysis, Order Statistics and Record values. The honorable guest has published a stream of research papers. It was proud for us to have such a great Statistician with us.

Dr Muhammad Hanif, completed his master degree from New South Wales University, Australia in Multistage Cluster Sampling. He completed his Ph.D. in Statistics from University of Punjab, Lahore, Pakistan. He has more than 40 year's research experience. He is an author of more than 200 research papers and 10 books. He has served as professor in various part of the world i.e. Australia, Libya, Pakistan and Saudi Arabia. He is presently a Professor of statistics and Vice Rector (Research) in NCBA and E, Lahore, Pakistan.



COMSATS Institute of Information Technology Lahore



Mr. Masood Amjad Khan is an Associate Professor of Statistics at Government College University Lahore having expertise in Mathematical Statistics, Applied Statistics, time series and Multivariate Analysis.

Prof. Dr. Qaisar Abbas, the worthy Director COMSATS Institute of Information Technology and Technology, Lahore along with honorable Head of different departments and all the respected faculty members of different departments inaugurated the First COMSATS Statistical Poster Competition 2015. Addressing the ceremony, worthy Dr Qaisar Abbas, Director CIIT, Lahore, appreciated the efforts of the students from different universities/institutes and encouraged them for their active participation in the event.

Afterwards the team of Jury including Prof. Dr. Munir Ahmad, Rector NCBA&E, Prof. Dr. Muhammad Hanif (Vice Rector NCBA&E), and Mr. Masood Amjad Khan (GCU Lahore) entered into the **Art Gallery** and evaluated the posters of the students one by one. They asked the participants to explain their work and encouraged them to further proceed with the work. The process of evaluation continued from 11:00 till 1:30 pm.

Then the students and guests were invited for lunch and afterwards the students and guests moved to Seminar Hall A-Block for the closing ceremony that was held on 2:30 pm.

Before formal start of the closing ceremony of the FSPC, **Mr. Abu Huraira** was called on stage for the recitation of some verses from the Holy Quran. Respected Professor and Head of Statistics Department Dr Muhammad Ismail honored the stage for acknowledging the efforts of the participants and respected faculty members. He especially acknowledged **Prof. Saleem Farooq Shoukat** and respected Jury Members for their valued time to come at the closing ceremony.

Afterwards **Prof. Saleem Farooq Shoukat**, Head of Academics & Research was invited on stage for sharing his views on the First COMSATS Statistical Soster Competition. He highlighted the importance of data analysis in different fields of life. He also appreciated the efforts of the students for presenting their research projects in the form of posters.

At the end **Prof. Saleem Farooq Shaukat** , Dr Muhammad Ismail and Prof Masood Amjad Khan were called on stage to distribute the certificates and prizes among the successful students.



COMSATS Institute of Information Technology Lahore





Honorable Dr Qaisar Abbas Opened the ceremony , Honorable guests from participant universities and Respected Head of different departments from COMSATS. Institute of Information and Technology accompanied him



Worthy Director COMSATS , Lahore Dr Qaisar Abbas asked students to present their work



Students showed their Research ideas in form of posters to the Worthy Director and Guests



Worthy Director with the Participants of the competition, Honorable guests and Faculty members



Respected Team of Jury visited each and every poster for their Evaluation, Students were really excited to show them their efforts of presenting whole research work in form of Statistical Posters





Respected Team of Jury visited each and every poster for their Evaluation, Students were really excited to show them their efforts of presenting whole research work in form of Statistical Posters



Worthy Director with the Participants of the competition, Honorable guests and Faculty members

Faculty Members with Honorable Jury Members Dr Munir Ahmad, Dr Muhammad Hanif and Prof Masood Amjad



Honorable Dr Ismail (Head of Department) appreciated the work of students and discussed the future plans of Centre for Statistical Consultancy and Training, Department of Statistics



New Faculty Members

Dr. Farrukh Shahzad
Assistant Professor



He has done PhD in Applied Statistics (2012) from National College of Business Administration & Economics, Lahore. His area of specialization is “**Experimental Designs particularly Neighbor designs**”. His research interests are in response surface and split-plot response surface designs, Neighbor Designs and Distribution theory. He has supervised 10 MSc/BS and 2 MPhil theses. He also has experience of teaching at **The Islamia University of Bahawalpur and University of Gujrat**.

Dr. Muhammad Noor ul Amin
Assistant Professor



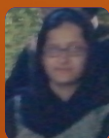
He has done PhD in Statistics (2014) from National College of Business Administration & Economics, Lahore. His area of research interests adaptive cluster sampling, stratified adaptive cluster sampling, regression analysis and time series. He has presented his research work in six international conferences. He has worked as reviewer for some well-known internationally abstracted / indexed journals and have conducted workshops and seminars various topics. He has previously worked at University of Sargodha-Lahore, Virtual University of Pakistan-Lahore. He was also a research fellow at University of Burgundy, Dijon, France from April 2013 to August 2013.

Dr. Aamir Sanaullah
Assistant Professor



He has done PhD in Statistics (2014) from National College of Business Administration & Economics, Lahore. He has deal with Non-response in Survey Sampling under different conventional and adaptive sampling Designs in his PhD research work. His other research interest includes Regression Analysis Experimental Design, Multivariate Analysis, Regression Analysis and Bio-Statistics. . He has supervised 3 BS-Hons and 1 MPhil thesis. He was **Statistical Research Advisor at Clinical Psychological Department, GC University, Lahore** where he supervised two PhDs in Clinical Psychology. He has worked as reviewer for some reputed international journals. He has previously worked at City College of Information and Technology Wah Cantt and Higher Education Department.

Dr. Riffat Jabeen
Assistant Professor



She has done PhD in Statistics (2014) from National College of Business Administration & Economics, Lahore. His area of specialization is “Multi stage conventional and adaptive sampling designs”. Her research interests are in Regression Analysis, Survey Sampling, Statistical Inference and Mathematical Statistics. Up till now she has 2 research publications in internationally reputed journal. She has also worked at University of Gujrat (Lahore Campus).

Ms. Fatima Batool
Lecturer



She has done MPhil in Statistics (2013) from Quaid-i-Azam University, Islamabad. She has been awarded with Gold Medal in MPhil, Chancellor Medal in MSc, Fellowships in MPhil, MSc and BSc. Her research interests are in Survey Sampling, Randomized Response Technique, Clustering, Time Series Analysis, Robust statistics and Monte Carlo simulations. She has attended various workshops, seminars and International conferences. She has also served at Government Post Graduate College for Women Sargodha.

Ms. Noreen Naeem
Lecturer



She has recently appointed as Lecturer in Department of Statistics, COMSATS Institute of Information Technology, Lahore. She has research Specialization in Survey Sampling. She has completed M.Phil in Statistics from Quaid-i-Azam University (Q.A.U.), Islamabad in 2015 and secured first position in the department and *Vice Chancellor Gold Medal* (awaiting). She has completed M.Sc in Statistics from Q.A.U., Islamabad with *Vice Chancellor Gold Medal* for standing first. She has Received Excellence Award in recognition of good examination result and extracurricular activities by Express News Group. Her Field of Interest are Survey Sampling, Probability, Quality Control.

Mr. Syed Ali Taqi
Lecturer



He has recently appointed as Research Associate in Department of Statistics at COMSATS Institute of Information Technology, Lahore. He passed his BS (Hons.) in Statistics from GCU Lahore with distinction and then completed MS in Statistics from COMSATS Institute of Information Technology, Lahore. His research interests are in Survey Sampling, Mathematical Statistics and Regression analysis.





Department of Statistics

COMSATS Institute of Information Technology

Defence Road, Off Raiwind Road, Lahore

Tel: +92 111 001 007 Ext. 132 , 852

