Name: **Dr. Ayan Chandra**
Designation: **Assistant Professor**
Department: **Statistics**
Qualification: **M.Sc., Ph.D.**
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Teaching Experience:

Teaching at Department of Statistics, St. Xavier's College, Kolkata since September, 1999.

Taught Discrete Mathematics, Data Structure and C programming in Indira Gandhi National Open University.

Administrative Experience:

Head of the Department of Statistics, St. Xavier's College (Autonomous), Kolkata from December, 2011 to June, 2015.

Member Secretary, Academic Council of St. Xavier's College (Autonomous), Kolkata from 1st March, 2017 to 30th June 2025.

Assistant Controller of Examinations of St. Xavier's College (Autonomous), Kolkata since 1st July, 2027.

Member of the Board of Studies, Satyajit Ray Film & Television Institute (SRFTI), Kolkata.

Member of the Academic Council, RCC Institute of Information Technology, Kolkata.

Conducted Academic Audit in XIM Bhuwaneshwar, St. Xavier's College Burdwan, St. Xavier's College Dumka and St. Xavier's College, Patna.

Area of Research: Operations Research, Optimisation Techniques, Bio-Statistics.

Papers Published:

1. "Some Inventory Models With Random Supply" (2002) – IAPQR Transactions.

2. "Some Alternative Methods of Finding the Optimal Order Quantity in Inventory Models" (2005) – Calcutta Statistical Association Bulletin.

3. "Estimation of Optimal Order Quantity in Newsboy Problem" (2011) – IAPQR Transactions.

4. "Effectivity of Vehicular Banning and its Reflection in Diseases" (2011) –

Nature, Environment and Pollution Technology.5. “An Alternative Solution to a Simple Inventory Problem” (2014) – IAPQR Transactions.

6. “Isotherm Study in Arsenic Tolerant Bacteria Isolated from Arsenic Affected Area in West Bengal, India” (2014) - IOSR Journal of Environmental Science, Toxicology and Food Technology.

7. “EOQ and its Estimation in a Static One-Point Inventory Model” (2017) – IAPQR Transactions.

8. “Rhizospheric soil of Typha angustifolia L from heavy metal contaminated and free sites: Comparative profiling reveals selective abundance of γ-proteobacteria and β- proteobacteria” (2019) - Indian Journal of Experimental Biology Vol. 57, October 2019, pp. 733-740.

9. “Covid-19 and the South Asian Countries: factors ruling the pandemic” (2021) – Listed under Global Literature on coronavirus disease by World Health Organisation.

10. “Biofilm production in a novel polyextremophilic Bacillus subtilis: A strategic manoeuvre for survival” (2022) - Biocatalysis and Agricultural Biotechnology, ELSEVIER.

11. “Biofilm producing Bacillus vallismortis TR01K from tea rhizosphere acting as plant growth promoting agent” (2022) - Biocatalysis and Agricultural Biotechnology, ELSEVIER.

12. “Unveiling the potential of Halotolerant bacteria as PGPR with an ANOVA and Time Series enhanced study for sustainable agriculture” (2024) - Journal of Mycopathological research 20(1):137-142.

13. “Unleaded agriculture: Myth to reality by wetland microbial flora” (2024) - Environmental Quality Management (Wiley).

14. “Harnessing Carbon Nanomaterials: Applications and Innovations” (2024) – IGI Global.

15. **Book Chapter:** Phylogenetic History of Vegan Homo sapiens to Omnivores - VEGAN GASTRONOMY AND SUSTAINABLE HEALTH Physiological Relationships and Nutritional Benefits – Apple Academic Press (ISBN: 978-1-99851-188-4 (hbk) , ISBN: 978-1-99851-189-1 (ebk)).

Paper Presentation and Participation in Seminar / Workshop

1. Presented a paper in 90th Indian Science Congress held at Bangalore in January, 2003.

2. Attended the workshop on “Computer Applications of Statistics” at Department of Statistics, University of Calcutta in August, 2003.

3. Participated in 5th International Triennial Calcutta Symposium on Probability and Statistics in December, 2003.

4. Presented a paper in 11th International Conference of the Forum for Interdisciplinary Mathematics held at Lucknow in December, 2004.

5. Presented a paper in 93rd Indian Science Congress held at Hyderabad in January, 2006.

6. Presented a paper in National Seminar on Statistics held at Loyola College Chennai in February, 2006.

7. Participated in UGC sponsored National Seminar – Cum – Workshop on "Evaluation System at Undergraduate Level" organized by St. Xavier's College, Kolkata and West Bengal college & University Teachers' association in April, 2007.

8. Presented a paper in 95th Indian Science Congress held at Visakhapatnam in January, 2008.

9. Presented a paper in National Conference on "Environmental Pollution of Biosphere and its Management" organized by St. Xavier's College, Kolkata and ICFAI Research Centre, Kolkata in June, 2008.

10. Guided students of Statistics and Micro-Biology departments for presenting papers in 96th Indian Science Congress held at Shillong in January, 2009.

11. Participated in STST programme (supported by Department of Science and technology, Government of India) on "Skill Set Development Program in Information and Comminication Technology" in June, 2009.

12. Presented a paper in National Workshop on "Medical Statistics and Clinical Trials" held at Pune in December 2010 and was awarded the First prize for paper presentation.

13. Guided students of Statistics and Micro-Biology departments for presenting papers in 97th Indian Science Congress held at Thiruvananthapuram in January, 2010.

14. Guided students of Statistics and Micro-Biology departments for presenting papers in 98th Indian Science Congress held at Chennai in January, 2011.15. Participated in International Conference 'St. Xavier's Global Earth Summit' in March, 2011.

16. Participated in National Level Seminar on "Application of Statistical Tools and Techniques in Multidisciplinary Fields" at Lady Brabourne College, Kolkata in November, 2011.

17. Guided students of Statistics and Micro-Biology departments for presenting papers in 99th Indian Science Congress held at Bhubaneswar in January, 2012.

18. Presented a paper in the International Conference on Operations Research held at Tirupati in December, 2014 and was awarded the "Best Application Paper Award".

19. Presented a paper in 103rd Indian Science Congress held at Mysuru in January, 2016.

20. Presented a paper in the International Conference of Association of Inventory Academicians and Practitioners on "Emerging Trends in Inventory, Supply Chain & Reliability Modelling".

21. Presented a paper at 16th International Conference on Excellence in Research and Education (CERE 2026), held from 01–03 May 2026 at IIM Indore.

Lectures Delivered as Expert

1. Delivered two lectures in a programme on “Statistical Methods on Social Research” organized by Indian Association for Productivity, Quality & Reliability in August, 2009.

2. Delivered lectures in Ph.D. course work programme of Department of Micro-Biology, Bose Institute in June-July, 2015.

3. Delivered lectures in Ph.D. course work programme of Department of Micro-Biology, Bose Institute in June-July, 2016.

4. Delivered lectures in Ph.D. course work programme at St. Xavier’s College (Autonomous), Kolkata in 2016.

5. Delivered lectures in Ph.D. course work programme of Department of Micro-Biology, Bose Institute in August-September, 2017.

6. Delivered lectures in Ph.D. course work programme at St. Xavier’s College (Autonomous), Kolkata in 2017.

7. Delivered lectures in Ph.D. course work programme at St. Xavier’s College (Autonomous), Kolkata in 2018.

8. Delivered lectures in Ph.D. course work programme at St. Xavier’s College (Autonomous), Kolkata in 2019.

9. Delivered lecture in online PhD Coursework organized by Department of Radio Physics and Electronics, University of Calcutta in September, 2020.

10. Delivered an invited lecture in International Workshop on High Performance Computer Application organized by Azerbaijan State Oil and Industry University, Baku in Collaboration with St. Xavier’s College (Autonomous), Kolkata during 17th and 18th November, 2020.

11. Participated in the Institutional Seminar on “NAAC Accreditation Process: Made Easy” organized by IQAC, Ramakrishna Mission Residential College (Autonomous), Narendrapur, Kolkata 700103 on 27th February, 2023.

12. Participated in the Faculty Development Programme on “Integrating Artificial Intelligence in Higher Education” organized by IQAC, St. Xavier’s College (Autonomous), Kolkata on 5th October, 2023.

13. Participated in State Level Workshop on “NIRF Ranking Preparation at College Level” organized by Department of Higher Education, Govt. of West Bengal on 13th September, 2023.

14. Given lecture as an Invited Speaker in Two-Day Natioal Workshop on “Quality Assessment, Enhancement and Sustenance Initiatives in Higher Education” organized by IQAC, Heritage Institute of Technology, Kolkata in academic collaboration with NAAC on 6th and 7th October, 2023.

15. Participated in JHEASA Annual Conference 2024 on “Discernment – Networking - Collaboration Where is the Spirit calling us?” from 26th to 28th of January, 2024.

16. Acted as a Resource Person in JHEASA Workshop for North-Zone IQAC Coordinators organized by St. Xavier’s College (Autonomous), Kolkata from 29th November to 1st December, 2024.

17. Delivered lectures on NIRF Ranking framework on various workshops organized by Department of Higher Education, Government of West Bengal.

18. Delivered Lecture on NAAC Accreditation in various institutes.