



# Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)

(For Teaching Staff)

Title	Dr.	First Name	Vinay Kumar	Last Name	Tyagi	Photograph
Designation		Associate Professor				
Department		Department of Statistics				
Address (Campus/Department )		Department of Statistics, MM College, Modinagar				
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**EDUCATIONAL QUALIFICATIONS**

Subject	Institution	Year	Details
M.B.A.	Shobit University, Meerut (School of Distance Education)	2014	Specialization in HR
Ph.D.	CCS University, Meerut, U.P.	1996	Title- "Stochastic Models in Engineering Reliability"
M.Phil.	Institute of Advance Studies, Meerut University, Meerut	1987	Title- "Stochastic Models in Engineering Reliability"
M.Sc.	Meerut University, Meerut	1986	Subject: Statistics

### CAREER PROFILE

Organization / Institution	Designation	Duration	Role(s)
Multanimal Modi College, Modinagar (Affiliated to C.C.S. University, Meerut)	Associate Professor	1988-Till Date	<p><b>Academic:</b></p> <ul style="list-style-type: none"> <li>• Teaching (UG &amp; PG Classes)</li> <li>• Convener/Member: Board of Studies, CCSU, Meerut</li> <li>• Member: Board of Studies, Maa Shakumabhari University, Saharanpur</li> <li>• Member: Executive Committee of ISITA</li> <li>• Member: Editorial Board of IJASS</li> <li>• Member: Editorial Board IJES</li> </ul> <p><b>Referee:</b> National and International Research Journals.</p> <p><b>Chief Editor:</b> International Journal of Essential Sciences</p> <p><b>Subject expert:</b> In selection scale and designation committee. CCSU, Meerut</p> <p><b>Administration:</b></p> <ul style="list-style-type: none"> <li>• Program Officer N.S.S.</li> <li>• Manager of College Sports Council</li> <li>• Vice-Chairman College Sports Council</li> <li>• Proctor of Science Faculty</li> <li>• Chief Proctor of the Proctorial Board of M.M. (P.G.) College</li> <li>• Coordinator IGNOU Study</li> </ul>

			<p>Centre</p> <ul style="list-style-type: none"> <li>• Assistant Superintendent University Examination</li> <li>• Senior Superintendent in C.C.S.University, Meerut Examination</li> <li>• Deputy Controller Evaluation of Answer Books CCSU, Meerut</li> <li>• Assistant Controller Evaluation of Answer Books C.C.S. University, Meerut</li> <li>• Centre Superintendent for PET (UPSSSC) Examination</li> <li>• Centre Administrator PCS Examination 2020</li> <li>• Observer in Ph.D. entrance Examination (CCSU, Meerut)</li> <li>• Observer in B.Ed. entrance Examination</li> <li>• Member of Research Development Committee</li> <li>• Co-Convener of Admission Committee</li> <li>• Convener of Admission Committee</li> <li>• Coordinator of Career and Counseling Cell</li> <li>• Member of search committee</li> </ul>
<p><b>Research Interests/Specialization:</b>Reliability and Operations Research.</p>			

**Publications:**

1. L.R. Goel and Vinay Kumar Tyagi,  
 "A Two-unit Cold Standby System with Allowed Downtime and Correlated Failures and Repairs".  
*Microelectronics & Reliability*, 32(4) pp. 503-507(1992).
2. L.R. Goel and Vinay Kumar Tyagi,  
 "A Two Unit Priority Redundant System with Three Modes and Correlated Failures and Repairs".  
*Microelectronics & Reliability*, 32(10) pp. 1367-1372(1992).
3. L.R. Goel and Vinay Kumar Tyagi,  
 "A Two Unit Series System with Correlated Failures and Repairs". *MicroelectronicsReliability*.  
 33(14)pp. 2165-2169(1993).
4. Vinay Kumar Tyagi,

“Profit Analysis of Two Unit Standby System with Rest Period of the Operator and Correlated Failures and Repairs”. *Microelectronics & Reliability*, 35(4) pp. 753-757 (1995).

5. Pawan Kumar Bhardwaj, Gulshan Taneja and V. K. Tyagi,  
“Reliability and Profit Analysis of a Programmable Logic Controller (PLC) Cold Standby System with Various Types of Failure”. *Proceeding of 5<sup>th</sup> International Symposium on Optimization & Statistics. Hosted by Department of Statistics and Operation Research, Aligarh Muslim University, Aligarh Dec. 28-30 (2002).*

6. Gulshan Taneja, Vinay K. Tyagi and Pawan Bhardwaj,  
“Profit Analysis of a Single Unit Programmable Logic Controller (PLC)” *Pure and Applied Matematika Science*, Vol. LX No.1-2 (2004).

7. Gulshan Taneja, Pawan Bhardwaj & Vinay K. Tyagi,  
“Analysis of a Two Unit Hot Standby PLC System” *Proceeding of the National Conference on Applications of Mathematics in Engineering & Technology. 7<sup>th</sup> Annual conference of Indian Society of Information Theory and Applications (ISITA) Hosted by MIMIT Malout, Punjab. March 26-28(2005).*

8. Vivek Tyagi, V.K. Tyagi and P.C. Saxena,  
“CAC Based Static and Dynamic Bandwidth Allocation Schemes in ATM Networks” *Proceeding of 8<sup>th</sup> Annual Conference of Indian Society of Information Theory and Applications (ISITA)*, hosted by N.C. College of Engineering, Israna (Panipat), Haryana March 18-20, (2006).

9. Vinay K. Tyagi and Surbhi Goel,  
“Reliability Analysis of a Complex Series system with Correlated Failure and Repairs” *Proceeding of 8<sup>th</sup> Annual Conference of Indian Society of Information Theory and Applications (ISITA)*, hosted by N.C. College of Engineering, Israna (Panipat), Haryana March 18-20, (2006).

10. Vinay K. Tyagi and Surbhi Goel,  
“Two Unit Cold Standby System with the Provision of Preventive Maintenance and Correlated Failures and Repairs”. *Journal of International Academy of Physical Sciences*, Vol. (11) pp.113-122 (2007).

11. Sachin Pathak, V.K. Tyagi and S.B. Singh  
“Wheat Crop Yield Forecasting Using Weather Parameters at an Organized Farm”. *Proceeding of 9<sup>th</sup> National Conference of Indian Society of Information Theory & Applications (ISITA) in Collaboration with Matematika Science Society of India on Information Technology and Operation Research Applications*. Hosted by Graduate School of Business & Administration (GSBA), Sec. Alpha-02 Greater Noida (Dec.8-9,2007).

12. Vinay Kumar Tyagi & Chetna,  
“Analysis of a Two Dissimilar Unit standby system with correlated failures and repairs” *Proceeding of 9<sup>th</sup> National Conference of Indian Society of Information Theory & Applications (ISITA) in Collaboration with Matematika Science Society of India on Information Technology and Operational Research Applications Hosted by Graduate School of Business &*

*Administration (GSBA), Sec. Alpha-02 Greater Noida (Dec. 8-9, 2007).*

13. Vinay Kumar Tyagi & Sujeet Kumar Sharma,  
"Implementation of Ant Colony Optimization on Web Pages". *Proceeding of 9<sup>th</sup> National Conference of Indian Society of Information Theory & Applications (ISITA) in Collaboration with Matematika Science Society of India on Information Technology and Operational Research Applications Hosted by Graduate School of Business & Administration (GSBA), Sec. Alpha-02 Greater Noida. (Dec. 8-9, 2007).*

14. Vivek Tyagi & Vinay Kumar Tyagi,  
"Congestion Free Network Design (Hypercube with Virtual Ring)". *Proceeding of 9<sup>th</sup> National Conference of Indian Society of Information Theory & Applications (ISITA) in Collaboration with Matematika Science Society of India on Information Technology and Operational Research Applications Hosted by Graduate School of Business & Administration (GSBA), Sec. Alpha-02 Greater Noida. (Dec. 8-9, 2007).*

15. Vivek Tyagi and Vinay K. Tyagi,  
"Virtual Path Resource Allocation schemes in ATM Networks". *Bulletin of Pure and Applied Sciences, Vol. (27) E No. (1) pp. 75-80 (2008).*

16. Vinay K. Tyagi and Surbhi Goel,  
"Analysis of Three Unit Standby System with Inspection and Correlated Failures and Repairs". *International Journal of Essential Sciences, Vol. (2) pp.9-18 (2008). ISSN: 0973-8436.*

17. Sachin Pathak, V. K. Tyagi and S.B. Singh,  
"Potato Crop Yield Forecasting Using Weather Parameters at Farrukhabad (Kanpur Zone)". *International Journal of Essential Sciences, Vol. (3) No.1, (2009).*

18. Sachin Pathak, V. K. Tyagi and S.B. Singh,  
"Rice Crop Yield Forecasting Using Weather Parameters at an Organized Form". *Journal of Natural & Physical Sciences, Vol. 23 (1-2) (2009).*

19. Vinay K. Tyagi and Surbhi Goel,  
"Profit Analysis of Three Unit Cold Standby System with Correlated Failures and Repairs". *International Journal of Agricultural and Statistical Sciences, Vol.(5) No. (1) pp. 123-130 (2009). ISSN: 0973-1903.*

20. Chetna & Vinay K. Tyagi,  
"Analysis of a Two Dissimilar Unit Standby System with Correlated Failures and Repairs". *International Journal of Essential Sciences, Vol. (3) pp.28-36 (2009). ISSN: 0973-8436.*

21. Sachin Pathak, V.K. Tyagi and S.B. Singh,  
"Fitting of Pearson's Type Distribution in Weather Variables during Potato Crop Growing Seasons" On-line journal: *Florida International Journal*([www.floridajournals.com](http://www.floridajournals.com)), (2010).

22. Shalendra Singh, Vinay Kumar Tyagi and S.R. Singh,  
"Effect of Inflation with Time and Stock Dependent Demand over a finite Planning Horizon".  
*International Journal of Operations Research and Optimization*. Vol.2, No.2 pp. 145-158 July –  
December 2011.

23. Vinay Kumar Tyagi, Shalendra Singh and S.R. Singh,  
"Probabilistic Inventory Model for Deteriorating Items with Non-Linear Production Rate  
Depending on Linear Demand Rate". *International Transactions in Applied Sciences*  
Vol.3, No.3, pp.313-322 July–December 2011.

24. Vinay K. Tyagi & Chetna,  
"RESEARCH METHODOLOGY" Published by STAR Publication AGRA. ISBN-987-93-81246-72-6.

25. Vinay K. Tyagi & Sujeet Kumar Sharma,  
"COMPUTER BASED NUMERICAL AND STATISTICAL TECHNIQUES" Published by VARDAN  
Publication House, New Delhi. ISBN-978-81-8281-106-5.

#### **Conference /Workshop/Presentations(National /International):**

1. Workshop on creating awareness about AIDS and its prevention through National Service Scheme (UNICEF Sponsored) organized by Department of Social and Preventive Medicine L.L.R.M Medical College Meerut. (Feb. 5-6, 1994).
2. U.G.C sponsored workshop on Reliability and Computer Application in Statistics and Related Areas hosted by Ch. Charan Singh University, Meerut. (March 11-12, 2000).
3. Workshop on "Relevance of Intellectual Property Rights in an Emerging Developing Society (With special reference to India)" sponsored by Government of India Ministry of H.R.D, New Delhi & organized by G.D.M Girls (P.G.) College, Modinagar. (Sept. 10, 2005).
4. National Conference on Applications of Mathematics in Engineering and Technology organized by Malout Institute of Management and Information Technology Malout (Punjab) & Indian Society of Information Theory & Applications. Chaired one of the sessions in the Conference. (March 26-28, 2005).
5. National Conference on Applications of Mathematics in Engineering and Technology organized by Malout Institute of Management and Information Technology Malout (Punjab) & Indian Society of Information Theory & Applications. Presented a paper entitled "Analysis of a Two Unit Hot Standby PLC System ". (March 26-28, 2005).
6. National conference on Information Technology: Setting Trends in Modern Era Hosted by N.C. College of Engineering Isarana (Panipat). Presented a paper entitled "Reliability Analysis of a Complex Series System with Correlated Failures and Repairs". (March 18-20, 2006).
7. National Conference on Information Technology and Operation Research Applications. Hosted by

Graduate School of Business & Administration (GSBA), Sector Alpha-02 Greater Noida. Presented a paper entitled "A Two Dissimilar Unit Standby System with Correlated Failures and Repairs".(December 8-9,2007).

8. National Conference on Information Technology and Operation Research Applications. Hosted by Graduate School of Business & Administration (GSBA), Sector Alpha-02 Greater Noida. Presented a paper entitled "Implementation of ant colony optimization an Web pages".(December 8-9,2007).
9. National Conference on Information Technology and Operation Research Applications. Hosted by Graduate School of Business & Administration (GSBA), Sector Alpha-02 Greater Noida. Presented a paper entitled "Conzestion free network design (Hypercube with virtual ring)".(December 8-9,2007)
10. National Conference on "Emerging Trends in Computer Science &Tecnology" Hoested by Al-Falah School Of Engineering & Technology, Dhauj, Faridabad (Haryana). Presented a paper entitled "Semantic Indexing of Information in Chemical and Related Disciplines". (April 23, 2008).
11. Attended the International conference on "Mathematics &Softcomputig (Applications in Engineering).InCollaboration with Indian Society of Information Theory & applications. Sponsored by Department of Science & Technology (DST), Defence Research & Development Organisation (DRDO) & Indian Council of Medical Research (ICMR). Hosted by N.C.College of Engineering, Israna (Panipat).(December 4-5,2010).
12. Participated in the One Day Seminar on "Role of CST UP in Promotion of Science & Technology and Facilitation of IPR Protection" organized by Council of Science and Technology, U.P., Lucknow, in collaboration with Intellectual Property Cell C.C.S.University, Meerut.(March 18,2015).
13. Attended one-day Workshop/Training Programme on "How to Access Online Resources Using DELNET & UGC N-LIST Programmes. Organised by IQAC, M.M.College, Modinagar. (April 8,2015).
14. Swami Shukdevanand 8<sup>th</sup> International Seminar permitted by:Govt. of India, Ministry of Home Affairs and organized by S.S.(PG) College, Mumukshu Ashram, Shahjahnpur (UP).Presented a paper entitled " Role of Tourism in Human Life" (Jan 30-31,2016).
15. National Seminar on "Recent Advances in Mathematics and its Computational Aspects" sponsored by University Grant Commission, New Delhi. Presented a paper entitled "Profit Analysis of two Dissimilar unit parallel system with provision of inspection and correlated failures and repairs". (November 11-12,2016).
16. National Conference on Current Trends in Applied Sciences sponsored by Department of Higher Education, Govt. Uttar Pradesh. Jointly Organised by I.Q.A.C. & Faculty of Science, J.V.Jain College, Sahaaranpur. Presented a paper entitled "Profit Analysis of Two-Unit Standby System with Rest Period for the Operator and Correlated Failures and Repairs". (March 18-19,2017).
17. Swami Shukdevanand 9<sup>th</sup> International Seminar permitted by:Govt. of India, Ministry of Home Affairs

and organized by S.S.(PG) College, Mumukshu Ashram, Shahjahnpur (UP). Presented a paper entitled " Analysis of a 3-State Repairable System with Two Types of Failures". (December 16-17,2017).

18. National Conference on Advances in "Operations Research and Mathematical Sciences" organized by Department of Research & Post Graduate Studies in Mathematics & Department of Statistics, Vardhaman College, Bijnor (U.P.) in association with Operational Research Society of India, Meerut Chapter. Presented a paper entitled "Reliability Analysis of a Two-Unit series system with correlated failures and repairs". (February 24-25,2018).
19. Participated in Workshop on "Academic Research Writing in Technology & Management" organized by Department of Management Studies, SRM Institute of Science and Technology, Delhi – NCR Campus, Modinagar, Ghaziabad. (February 28, 2018).
20. 24<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIPAS-XXIV) on "Innovations in Physical Sciences" Organized by Faculty of Science, Chaudhary Charan Singh University, Meerut. Presented a paper entitled "Analysis of a Complex System with Environmental Failure" (August 09-11,2019).
21. Participated in Workshop on "Introduction to MATLAB" organized by Department of Mathematics, Keral Verma Subharti College of Science, Swami Vivekanand Subharti University, Meerut. (November 8-9, 2019).
22. National Seminar on "Recent Trends in Interdisciplinary Research" organized by IQAC, Multanimal Modi College, Modinagar. Presented a paper entitled Reliability Analysis of Two-Unit priority cold standby system with correlated failures and repairs. (January 31,2020).
23. National Seminar on "Bioinformatics: Concepts, Applications & Skill Development" organized by Department of Botany, Multanimal Modi College, Modinagar. Chaired one of the sessions in the Seminar. (February 8,2020).

**Refresher and Orientation courses Attended:**

1. Attended the Orientation and Training course for NSS Programme Officers, organized by Training and Orientation Centre, University of Roorkee, Roorkee. (June 21 to July 3<sup>rd</sup>,1993 )
2. Participated in four weeks UGC sponsored Refresher Courses in Computer Science, Organized by Academic Staff College J.N.U New Delhi (Aug. 13 to Sept. 07, 2001).
3. Participated in a 3weeks Professional Development Programme, Refresher Course in Statistics conducted by Centre for Professional Development in Higher Education University of Delhi, New Delhi.
4. Attended two Orientation Program for the Academic Counselors for the Programme –Management



Program M.B.A. Organized by IGNOU Regional Center, Delhi-2. (5 Jan. & 30-31, Jan 2002).

**(Signature & Stamp of Teacher In-Charge/Principal)**