

CURRICULUM VITAE

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Department of Mathematics
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Personal Details :

Date of Birth : Dec. 8, 1966
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Academic Qualifications:

Examination	Board/University	Year
M.Sc.	Maharshi Dayanand University, Rohtak	1988
M.Phil.	C. C. S. University, Meerut	1989
Ph.D.	Maharshi Dayanand University, Rohtak	1995
Certificate Course In Computing (CIC)	Indira Gandhi National Open University, New Delhi	1999
Post Graduate Diploma in Computer Applications(PGDCA)	Indira Gandhi National Open University, New Delhi	2003

Teaching Experience : Twenty Nine Years

Under-Graduate Classes : Fifteen Years
Post-Graduate Classes : Thirteen Years

Research Experience : Thirty Years

**Research Areas/Interests : Reliability Modeling and Analyses,
Information Theory, Operations Research
and Statistical Estimation**

**Research Papers Published/Accepted in National/International Journals/
Proceedings of the Conferences/ Seminars: 59**

**Research Papers Presented at the National/ International Conferences/
Symposia/ Seminars: 91**

**Key-Note Speaker/ Invited Talks/ Extension Lectures Delivered/ Sessions Chaired
as Expert/ Resource Person: 43**

1. **Invited Talk** at National Conference on Application of Mathematics in Engineering and Technology & 7th Annual Conference of Indian Society of Information Theory & Applications held at Malout Institute of Management & Information Technology, Malout (Punjab) on March 26-28, 2005.
2. **Invited Talk** at National Seminar on Information Theory & Operations Research held at S.S.M. College, Dinanagar (Punjab) on Feb. 20-21, 2006.
3. **Invited Talk** and **Chaired** a Technical Session at National Conference on Information Technology: Setting Trends in Modern Era and 8th Annual conference of Indian Society of Information Theory & applications held at N.C. College of Engineering, Israna (Haryana) on Mar. 18-20, 2006.
4. **Invited Talk** at National Level Seminar on Information Technology: Software Reliability held at N.C. College of Engineering, Israna (Haryana) on Feb. 9-10, 2007.
5. **Invited Talk** at National Level Conference-cum-Workshop on Statistics and Research Methodology under Faculty Enrichment Programme of the UGC held at Guru Nanak Khalsa College, Yamuna Nagar (Haryana) on Mar. 28, 2007.
6. **Invited Talk** at 9th National Conference of Indian Society of Information Theory & Applications in collaboration with Mathematika Sciences Society of India held at Graduate School of Business and Administration, Greater Noida (U.P) on Dec. 8-9, 2007.
7. **Invited Talk** at National Seminar on Emerging Trends in Software Engineering held at N.C. College of Engineering, Israna (Haryana) on Sept. 5-6, 2008.

8. **Invited Talk** and **Chaired** a Technical Session at 11th National Conference of Indian Society of Information Theory & Applications, held at GGS Khalsa College, Sarhali (Punjab) on Oct. 24-26, 2009.
9. **Invited Talk** and **Chaired** a Technical Session at National Seminar on Challenges in Software Engineering Research and Practices held at N.C. College of Engineering, Israna, Panipat on Mar.30-31, 2010.
10. **Invited Talk** at National Seminar on Emerging Trends in Mathematical Models in Industry and Software Development held at D.A.V. College, Sadhaura (Yamuna Nagar) on Nov. 26-27, 2010.
11. **Invited Talk** and **Chaired** a Technical Session at First International Conference on Mathematics and Soft Computing (Applications in Engineering) in Collaboration with ISITA held at N.C. College of Engineering, Israna, Panipat on Dec.4-5, 2010.
12. **Invited Talk** at National Conference on Advanced Mathematics and its Applications held at D.A.V. College, Bathinda on Feb. 25-26, 2011.
13. **Invited Talk** and **Chaired** a Technical Session at National Conference on Global Challenges -Role of Sciences & Technology in giving their Solutions held at TIT&S, Bhiwani on Mar.3-4, 2012.
14. **Invited Talk** and **Chaired** a Technical Session at National Conference on Recent Development in Mathematics with their Application held at Govt. (P.G.) College for Women, Bhodia Khere, Fatehabad on Mar. 15-17, 2012.
15. **Invited Talk** and **Chaired** a Technical Session at National Seminar on Mathematics and Its Applications held at Vaish College, Rohtak and sponsored by Director General Higher Education, Haryana on Mar.27-28. 2012.
16. **Invited Talk** and **Chaired** a Technical Session at International Conference on History and Development in Mathematical Sciences and Symposium on Nonlinear Analysis held at Department of Mathematics, M.D. University, Rohtak on Nov.21-24, 2012.
17. **Invited Talk** and **Chaired** a Technical Session at National Seminar on “Mathematical Modeling in Science and Technology” held at TITS, Bhiwani on Aug. 18, 2012.
18. **Chaired** a Technical Session at VII International Symposium on “Optimization and Statistics” and III-National Conference on “Statistical Inference, Sampling Techniques and Related Areas” organized by Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh from Dec.21-23, 2012.
19. **Invited Talk** and **Chaired** a Technical Session at “International Conference on Information and Mathematical Sciences (IMS-13)” held at Baba Farid Institute of Management and Technology, Bathinda Punjab on Oct. 24-26, 2013.
20. **Invited Talk** and **Chaired** a Technical Session at 3rd National Conference of “Computational and Mathematical Sciences” (COMPUTATIA-2013) held at VIT, Vivekananda Global University, Jaipur from Nov. 25-26, 2013.

21. **Invited talk** and **Chaired** a Technical Session at National Seminar on “Algebra and its Applications” held at Govt. College, Barohar (Jhajjar) on Feb. 1, 2014.
22. **Chaired** a Technical Session at IV-National Conference on “Statistical Inference, Sampling Techniques and Related Areas” organized by Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh held from Feb. 18-19, 2014 on Feb.19, 2014
23. **Invited Talk** and **Chaired** a Technical Session at 4th National Conference of “Computational and Mathematical Sciences (COMPUTATIA-2014)” held at VIT, Vivekananda Global University, Jaipur from Nov. 25-26, 2014.
24. **Invited Talk** and **Chaired** a Technical Session at National Conference on “Recent Trends in Mathematical and Computational Sciences” (NCRTMCS-2015) held at T.M. Bhagalpur University, Bhagalpur (Bihar) from Jan. 3-4, 2015.
25. **Invited Talk** at One Day Seminar on “Application of Mathematics for Engineers” held at Management Education and Research Institute (MERI-CET), Sampla, Bahadurgarh on Jan. 28, 2015.
26. **Invited Talk** and **Chaired** a Technical Session at National Conference on “Recent Advances in Mathematics” (NCRAM-2015) held at Aggarwal College, Ballabgarh (Faridabad) from Feb. 20-21, 2015.
27. **Chaired** a Technical Session at Two Days National Seminar on “Recent Developments in Mathematical Sciences” organized by Department of Mathematics, M.D. University, Rohtak on Mar. 7-8, 2017.
28. **Invited Talk** at Three Days National Workshop on “Statistical Applications in Physical Education and Sports” organized by Department of Physical Education, M.D. University, Rohtak on June 1-3, 2017.
29. **Key-Note Speaker** and **Chaired a Technical Session** at Three Days Seminar on Recent Innovation in Mathematics in the Field of Engineering & Applied Sciences under the flagship of 5th Rajasthan Science Congress organized by the Department of Mathematics Amity University Rajasthan, Jaipur on Oct. 13-15, 2017
30. **Chaired a Technical Session** at 21st International Conference of International Academy of Physical Sciences on Symbiotic Development of Mathematical, Physical, Chemical & Computational Sciences and Symposium on Recent Advances and Future Directions on Mathematics in Bio-Sciences organized by Department of Mathematics, Guru Jambheshwar University of Science & Technology, Hisar from Oct. 28-30, 2017.
31. **Invited Talk** and **Chaired** a Technical Session at International Conference on Recent Trends in Operations Research and Statistics organised by Department of Mathematics Indian Institute of Technology Roorkee on Dec. 28-30, 2017.

32. **Invited Talk** and **Chaired** a Technical Session International Conference on Recent Advances in Mathematics Organised by Department of Mathematics Aggarwal College Ballabgarh, Faridabad on Feb. 17-18, 2018.

Delivered Extension/ Expert Lectures:

32. **A lecture as resource person** in Refresher Course in Mathematics held at Govt. College, Bhiwani, on 2007
33. **An extension lecture series** at Pt. N.R.S. Govt. College, Rohtak on Feb. 15-17, 2011
34. **Two lectures as a Resource person** at Refresher Course in Mathematics (Dec.18, 2013 - Jan.9, 2014) held at UGC-Academic Staff College, Bhagat Phul Singh University, Khanpur (Sonapat) on Dec. 27, 2013.
35. **An extension lecture** as a Resource person on 'Statistical Methods' at Govt. College, Jind on Jan. 17, 2014.
36. **An extension lecture** on 'Data Analysis and Statistical Techniques' at Institute of Hotel and Tourism Management, M. D. University, Rohtak on Feb. 17, 2014.
37. **An extension lecture** on 'Statistical Inference' at Department of Mathematics, Bhagat Phul Singh University, Khanpur (Sonapat) on Apr. 26, 2014
38. **An expert lecture** at ISTE, New Delhi and PTU, Jalandhar sponsored Faculty Development Programme on "Coding Theory and its Applications" (June 23- 27, 2014) held at Maluot Institute of Management and Information Technology, Malout (Punjab) on June 26, 2014.
39. **Two lectures as a Resource person** at Refresher Course in Mathematics (Nov.18 - Dec.8, 2014) held at UGC-Academic Staff College, Bhagat Phul Singh University, Khanpur (Sonapat) on Dec. 4, 2014.
40. **A lecture as a Resource person** at Refresher Course in Physical Sciences (Dec. 8-27, 2014) held at UGC-Academic Staff College, Punjabi University, Patiala on Dec. 27, 2014.
41. **A lecture as a Resource person** at Refresher Course in Mathematics held at UGC-Academic Staff College, Bhagat Phul Singh University, Khanpur (Sonapat) on Dec. 29, 2014.
42. **Two extension lectures as a Resource person** at Department of Statistics, University of Kashmir, Srinagar.
43. **Three extension lectures as a Resource person** at Department of Mathematics, Ch. Ranbir Singh University, Jind on Mar. 10, 2018.

Participation in National/ International Conferences/ Symposia/ Seminars/ Workshops: 60

Refresher / Orientation Courses Attended: 04

Supervisor/ Co-Supervisor of M. Phil./ Ph.D. Students: 28

(A) Ph.D. Degrees

- **Awarded -5 (Five)**
- **Registered-7 (Seven)**

(B) M. Phil. Degrees

- **Awarded – 6 (Six)**
- **Registered- 2 (Two)**

Life Member of National/ International Academic/ Research Societies: 06

- a) Indian Society of Probability and Statistics (ISPS)
- b) Indian Society of Information Theory and Applications (ISITA)
- c) Society for Reliability Engineering, Quality and Operations Management (SREQOM)
- d) Society of Applied Statistics and Computer Science (SASCS)
- e) International Association of Engineers (IAENG)
- f) Forum for Interdisciplinary Mathematics (FIM)
- g) Indian Society for History of Mathematics (ISHM)

Referee/Editor of the National/ International Research Journals: 05

- Caledonian Journal of Engineering
- International Journal of Simulation and Modeling
- Chitkara Journal of Interdisciplinary Mathematics
- Aryabhatta Journal of Mathematics and Informatics
- Journal of Clinical & Diagnostic Research

Current Assignments:

- i. **Director, Department of Alumni Relations, M.D. University, Rohtak** since March. 2016.
- ii. **Member** of Academic Council, M.D. University, Rohtak and Board of Mathematical & Physical Sciences, Central University Haryana, Mahendergarh and Board of Applied Sciences, Amity University, Gurugram.
- iii. **Member** of Boards of Undergraduate /Post Graduate Studies in Statistics and Mathematics in M.D. University, Rohtak since 2006.
- iv. **University Observer and Member** Governing Body of Saraswati Mahila Mahavidyalya, Palwal.
- v. **Treasurer** of Indian Society of Information Theory and Applications (ISITA)
- vi. **Expert/ Examiner/ Evaluator** for Various Universities/ Institutes/ Public Service Commission's including Kurukshetra University, Kurukshetra; G.N.D. University, Amritsar; H.N.B. Garwal University, Sri Nagar; T.M. Bhagalpur University, Bhagalpur; University of Rajasthan, Jaipur; C.C.S University, Meerut; Maharaja Ganga Singh University, Bikaner; Chitkara University, Baddi; G. J. University, Hissar; P.T. University, Jalandhar; Panjabi Univ., Patiala; PPSC, Patiala; Amity University, Gurugram; B.P.S. Mahila University, Khanpur; C.D.L.U., Sirsa; Central University Haryana, Mahendergarh; Kashmir University, Srinagar

Past Assignments/Achievements/Contributions

- **Deputy Co-ordinator** of UGC-SAP (DRS-I) from July, 2012 to June 2017.
- **Member of the Advisory Committees** of several National/ International Conferences/ Seminars/ Workshops organised by various Institutions/Universities.
- **University Observer and Member** Governing Body of Ganpati College of Education, Bhoiri, Mahendergarh.
- **Convener/Coordinators/ Member Organizing Committees** of several National/ International Conferences/ Seminars/ Workshops organised by varied Institutions/ Universities.
- **Member of Organising Committees** of the DST-INSPIRE Programme, SCIENCE CONCLAVE organized by the M. D. University, Rohtak.
- **Convener/Member** of various screening/selection committees constituted by the Universities for appointment of Asstt. Professors/ Associate Professors/ Professors/ Principals of the colleges.

- **Deputy Convener** in the National Seminar on Recent Developments in Mathematical Sciences organized by the Department of Mathematics, Maharshi Dayanand University, Rohtak from March 07-08, 2017.
- **Secretary in the International Conference on History and Development of Mathematical Sciences** organized by the Department of Mathematics, M. D. University, Rohtak in collaboration with "Indian Society for History of Mathematics from Nov. 21-24,2012.
- **Convener/Member** of various inspection committees constituted by the M.D. University, Rohtak, C.D.L. University, Sirsa and P.T.U. Jalandhar for Inspection of its affiliated Colleges.
- **Observer, Member Flying Squad, Superintendent, Asstt. Superintendent, Examiner/Evaluator** in spot marking/evaluation in examinations of various Central/ State Government/ Boards/ Universities.
- **Member**, Organizing Committee of Blood and Eye Donation Camp organized on occasion of National Science Day at the Department of Mathematics, M. D. University on Feb 28, 2011.
- **Conveners/ Members** of Variety of Committees constituted by the M.D. University, Rohtak including Committees for UMC, Admissions, Teaching Workload, Time Table, Syllabi Framing, Complaints Committee, Refreshment, Reception, Cultural, Purchase and Academics.
- **Members** of several Cultural/ Social Programmes/ Events organized by the Department/ University including National Youth Festival 2017
- **Expert/ Examiner/ Evaluator** for Various Universities/ Institutes/ Public Service Commission's including Kurukshetra University, Kurukshetra; G.N.D. University, Amritsar; H.N.B. Garwal University, Sri Nagar; T.M. Bhagalpur University, Bhagalpur; University of Rajasthan, Jaipur; C.C.S University, Meerut; Maharaja Ganga Singh University, Bikaner; Chitkara University, Baddi; G. J. University, Hissar; P.T. University, Jalandhar; Panjabi Univ., Patiala; PPSC, Patiala; Amity University, Gurugram; B.P.S. Mahila University, Khanpur, C.D.L.U., Sirsa; C.B.L.U. Bhiwani; Central University Haryana, Mehendergarh; Kashmir University, Srinagar.
- **Paper-setter** of several Undergraduate and Post-graduate level papers namely B.A./B.Sc., B.B.A., B.Tech./B.E., M.B.A., M.C.A., M.A., and M.Sc. of number of universities and paper-setter of various competitive examinations conducted by the States/Universities.
- **Awarded** Senior Research Fellowship by CSIR, New Delhi w.e.f. July, 1992 to June, 1995.
- **Awarded** University Research Fellowship by M.D. University, Rohtak w.e.f. April 1990 to June 1992.

- **Participated** in various Conferences/ Seminars on the issues related to Higher Education and National Development.
- **Life member** of M.D.U. Alumni Association Rohtak
- **Life member** of All India Federations of University and College Teachers' Organisation
- **President**, M.D.U. Teachers' Club, Rohtak from 2005 to 2007.
- **Vice-President**, Treasure and Member of Executive Committee of M.D.U. Teachers' Association, Rohtak.
- Contributed in the formulation of Curriculum/ Syllabi of UG/PG Courses of Statistics and Mathematics as a member of Board of Under-Graduate /Post Graduate Studies of different State/Central Universities.
- Delivered lectures on the subjects of Mathematics, Statistics and Computer Science and their applications at various Departments/ Institutes of the University including Department of Computer Science & Applications, Department of Statistics, Department of Pharmaceutical Sciences, Institute of Management Studies and Research, Institute of Hotel & Tourism Management etc. and also at various other reputed institutions including Indian Institute of Technology, Delhi; Textile Institute of Technology & Sciences, Bhiwani; Panjab University, Chandigarh; University of Kashmir, Sri Nagar.
- Helped the faculty members and students of various institutions including PGIMS, Rohtak and PGI, Chandigarh in Methodology and Interpretation of data for their research works/Projects/Degrees.
- Given guidance and suggestions to research scholars working in the field of Mathematics, Statistics, Computer Science, Engineering, Economics, Commerce, Bio-sciences, Psychology, Education and Physical Education regarding sample surveys, data collection, statistical analyses and data interpretation.
- Encouraged and helped the students for participation in various competitions and co-curricular activities like Essay writing, Quiz, Debate, Music, Dance, Skill Developments, Blood Donation, Tree Plantation, Cleanliness Drive 'Swachh Bharat Abhiyan' and Sports activities etc.