

CURRICULUM VITÆ OF PROF. H S DHAMI

Dr H S Dhmi, M.Sc., Ph.D.,
Vice Chancellor,
Uttarakhand Residential University Almora;
Vice-Chancellor, HNB Uttarakhand Medical Education University (Additional Charge)

Former Vice-Chancellor, Kumaun University, Nainital

Officer on Special duty -
National Law University Uttarakhand

Former:

Vice Chancellor, GB Pant University of Agriculture and Technology (Addl. Charge
15.10.14-20.03.15)

Former

Coordinator,
Centre of Excellence in Mathematical Sciences,
Uttarakhand,

Professor and Head,
Dept. of Mathematics;

Director ICT;

Kumaun University;

Campus Dean,

Faculty of Science;

SSJ Campus Almora

Proctor, Dean Students' Welfare, SSJ Campus Almora

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AWARDS, HONOURS AND RECOGNITIONS

- Received "Life Time Education Award 2016" from National Institute of Cleanliness Education and Research (NICER) {Affiliated to United nations- ECOSOC, DPI, UNICEF, UNESCO.
- Identified as "The Great Son of India" in All India Conference of Intellectuals in 2016
- Selected amongst 100 Most Influential Vice Chancellors by World Education Congress awards 2016
- Recipient of 2nd National Uttarakhand Education award 2015 for Excellent Contribution in Education sector from Chief Minister, Uttarakhand, Sri Harish

Rawat conferred by the CMAI (Communication, Multimedia and infrastructure) association of India

- Received award from Pt. Ram Sumer Shukla Smarak Trust for Special contribution in Education sector in 2015, Conferred by Chief Minister, Uttarakhand.
- Recipient of Soe Global Education awards 2014.
- Conferred “Uttarakhand Ratna” on 20 April 2014 by All India Conference of Intellectuals for the recognition of services rendered to the society at large.
- Recipient of **Bharatmata award** conferred by Indian Institute of Oriental Heritage on March 7, 2014 in recognition of patronage to the cause of research and development to the study of many tributes of Oriental learning and also in consideration of the encouragement for the propagation, modernization and popularization of this branch of ancient knowledge
- Selected among **2000 Outstanding Intellectuals of the 21st Century 2012** by International Biographical Centre, Cambridge, England
- Nominated for **Top 100 educators 2011** by International Biographical Centre, Cambridge, England
- Nominated for **Top Intellectual minds of 2011** by International Biographical Centre, Cambridge, England
- Recipient of the **GOLD MEDAL FOR INDIA** from American Biographical Institute, INC (Publisher of Biographical Reference Works since 1967), University of Cambridge, England 2010
- Biography included in **Marquis Who’s Who in the World-2011 (28th edition)** (America’s Biographer Since 1899)
- Editor of International Journal of Engineering Science and Technology (IJEST)
- Editorial board member of “Studies in Non-linear Sciences’ open access Journal of Dept. of Mathematics/Basic Sciences, HITEC University, Taxila Cantt., Pakistan.
- Member of IJCA (International Journal of Computer Applications) review panel
- Reviewer of Applications and Applied Mathematics (An International Journal- AAM)
- Reviewer of 2nd International Multidisciplinary conference “Towards Better Pakistan” during 24-25 September 2012, Peshawar, Pakistan
- Reviewer of Education Research, Published from Nigeria
- Reviewer of Science Journal Publication
- Editor of Vikram University Journal of Mathematics
- Editor of International Journal of Operations Research and Optimization
- Editor, Bulletin of Pure and Applied Sciences (bpas)- Mathematics and Ststistics section
- Reviewer of Gorakhpur University Mathematical Journal
- Reviewer of Educational Research and Reviews (ERR) Journal
- Invited speaker in 92nd Indian Science Congress, January 3-7,2005
- Regular Invited speaker in the National and International conferences of the Society for special functions and their applications

- Represented Kumaun University during the 80th session of all India Vice-Chancellor's Conference held at Indian Institute of Information Technology Allahabad during 24-27, November 2005.
- Led the delegation of University teachers in different Information technology events like NASSCOM, Infovision-2005.
- Invited to attend 2010 conference of World Peace affairs organization in United States of America
- Successfully completed two national seminars as Programme coordinator and organizing secretary
- Member Research Committee of H N B Garhwal University (Central University)
- Item writer, moderator and paper setter of various commissions
- Member Interview Board of Uttarakhand Public Service Commission
- Examiner of several Engineering colleges as an IT expert
- Resource person in the Refresher Course in Mathematics, held at DDU Gorakhpur
- Resource person in the National Conference on Recent Trends in the advances of Astronomy and applied Mathematics
- Member, Academic advisory board of Graphic Era University (Deemed University) Dehradun
- Core working group member and member advisory board of Uttarakhand Centre for climate change
- Invited speaker in CONIAPS XV (15th International Conference of International Academy of Physical Sciences) during December 9-13,2012, scheduled to be held at Rajamangala University of Technology, Thanyaburi, THAILAND.
- Plenary speaker in International Conference on Mathematical Sciences, scheduled to be held during Dec.28-31,2012 at Shri Shivaji Education Society Amravati's Science College Nagpur.

MAJOR ACCOMPLISHMENTS

FELLOW, INTERNATIONAL ACADEMY OF PHYSICAL SCIENCES AND VIKRAM MATHEMATICAL SOCIETY, UJJAIN

- **As vice chancellor Uttarakhand residential university, Almora**
 - ✓ University has started following skill development courses under PPP mode with a specific module of On the Job Training, where students are getting paid internship during the course of their study in all semesters.
 - B.Sc. (Cloud Computing)
 - B.Sc. (Cyber Security)
 - B.Sc. (Internet of Things)
 - B.Sc. (Biofuels)
 - B.Voc (Hospitality Management)
 - B.Voc (Automotive and Manufacturing assembly)

- B.Voc (Banking and Insurance Management)
 - B.Voc (digital Marketing)
- Some more courses are likely to be started from the academic session 2018-19 in PPP mode.
- ✓ Efforts are underway to file patents under societal programmes in collaboration with RI Innovators and IITs
 - ✓ Research Initiative of Residential University in collaboration with RI Instruments and IIT Bombay has been prominently highlighted in electronic and print media, across the globe. One important citation is in graphene-info.com, which is reported in following link-
<https://www.graphene-info.com/new-graphene-based-device-aims-eliminate-drunken-driving>
 - ✓ Working on a solar lamp proposal for providing light to those houses/villages where proper electric supply is not available.
 - ✓ The courses started under PPP mode are operational under MOU with different Industrial and training partners.

➤ **As Vice Chancellor Kumaun University**

- ✓ Under my leadership university has been awarded the Indira Gandhi Rashtriya Puraskar by His Excellency, The President, on 19 November, 2013 for commendable work in N.S.S
- ✓ University was accredited by NAAC as ‘A’ grade University
- ✓ University formulated a joint collaborative programme on “Development of Standard based Uttarakhand Geoportal for gGovernance”. This programme was funded jointly by DST New Delhi (70%) and State Government (30%). All the GIS digital data was stored in the GIS Server of Uttarakhand Geoportal by NRDMS, Kumaun University which is linked through web based GIS with India Geoportal located at the NSDI (National Spatial Data Infrastructure), DST New Delhi. Scientists at NSDI, DST New Delhi are monitoring our work on daily basis through India Geoportal by web GIS technology and also extending their technical support. The uniqueness of this programme is that the GIS of different districts is being developed through the Officers of users departments as per their own needs with the technical support of the Kumaun University. It is hoped that within the next two years, we shall have web based GIS infrastructure for all the 13 districts of Uttarakhand and g-Governance system shall be fully operational for good and decentralised governance in the Uttarakhand State. It would be a great achievement of the Kumaun University in the context of DIGITAL INDIA and may be first State in India having fully updated g-Governance System.
- ✓ Kumaun University basically known as conventional University started skill development courses. UGC had sanctioned two courses- Advanced Diploma courses in Retail Management and in Hospitality Management under community college and Food technology and Automobile Technology under B.Voc scheme.
- ✓ I had provided such an atmosphere in which many departments of the university have signed Memorandum of Understanding (MOU) with national-international agencies and organizations, main among them are Obama-Singh 21 Century Knowledge Initiative, University of Montana, U.S, University of Paris,

Department of Stress Cell Biology Roswell Park Cancer Institute, Buffalo, USA, Arya Bhatt (AREAS), Wadia Institute, G.B. Pant Institute, Kosi Katarmal Almora, Vivekanand Parvatiya Krishi Anusandhan Sansthan, Defence Institute of Bio-Energy, Pithoragarh, N.B.R.I, Lucknow, D.R.D.O. etc. to mention only a few.

➤ **As Coordinator CEMS, Uttarakhand**

Coordinator, Centre of Excellence in Mathematical Sciences, Uttarakhand established at SSJ Campus Almora of Kumaun University established by Uttarakhand Council of Science and Technology (UCOST) and USERC, (Uttarakhand Science Education and Research Centre Dehradun with the support of National Board for Higher Mathematics (NBHM) and Department of Science and Technology (DST), Govt. of India.

- ✓ Organized ATML-Instructional School for Lecturers (ISL-Algebra,2012) funded by National Board for Higher Mathematics during Feb.20-3 March 2012.
- ✓ Organized ATML-Advanced instructional school (AIS in differential Geometry) during 21 May – 9 June 2012 funded by National Board for Higher Mathematics
- ✓ Nominated Local Coordinator of MMTS (Mathematics Training and Talent Search) School
- ✓ Organized “Almora Mathematical Surveys” (A National Mathematics year event) during 3-6 October 2012.
- ✓ Session Coordinator of the National Academy of Sciences, India, Uttarakhand Chapter.
- ✓ Organized International discussion meeting and conference of ICTS (International Centre for Theoretical Sciences) ,TIFR Program entitled Advanced School and Discussion Meeting on Groups, Geometry and Dynamics during Dec.1-Dec.16, 2012.
- ✓ Organized advisory committee of CEMS for finalization of DPR and Mini symposium in Kumaun University during 29-30 April, 2013

➤ **As Professor, Dept. of Mathematics**

- ✓ Invited speaker in International Conference on Applications of Fluid Dynamics, Organized by University of Botswana, University of Glasgow and International Mathematical Union during Sept. 28-29,2012 at Botswana.
- ✓ Organized a national workshop on Optimization-Theory and Practice in which resource persons shall be from premier institutions of India, Participants drawn from IIT^s, REC^s and other Universities and colleges of Uttarakhand and India
- ✓ Worked as patron of National seminar on Interface between Statistics, Mathematics and Allied sciences, held at SSJ Campus Almora during 20-22 November,2010.
- ✓ Worked as Organizing Secretary of International Colloquium on History of Mathematical Sciences and symposium on Non-linear analysis, held at SSJ Campus of Kumaun University during May, 16-19,2011.

- ✓ Organizing Secretary of 6th Uttarakhand State Science and Technology Congress (USSTC-2011) during November 14-16,2011.
 - ✓ Invited speaker in the National conference on “Role of Mathematical and Physical Sciences in Engineering and Technology” held at Govt. Degree College Karnprayag (Chamoli) during 21-22 October 2011.
 - ✓ Invited speaker in the 4th International conference on “Life Sciences and associated Technology in ancient India” held at National Institute of Vedic Sciences, Bangalore during 20-24 Dec.2011.
 - ✓ Chaired Technical session entitled “Engineering and Mathematical Sciences” in the International conference on Green Technologies for Environmental Rehabilitation, organized by Faculty of Engineering and Technology, Gurukul Kangri University, Haridwar during Feb.11-13,2012.
 - ✓ Member Organizing Committee and Invited speaker for 4th National Conference on Progress in Electronics and Allied Sciences, scheduled to be held at Gurukul Kangri University Haridwar during 3-4 November,2012.
- **As Director ICT**
- ✓ Have provided leadership and coordination for ICT strategic planning and implementation in the University
 - ✓ Have been responsible for ensuring that the ICT services across all administrative and academic sections of the University, its campuses and affiliated colleges Academies are robust, secure, safe, resilient, scalable and responsive.
 - ✓ providing overall coordination of devolved ICT model, ensuring the governance of ICT services, managing ICT risk and directing the implementation of the rolling ICT Strategy through the delivery of programmes of ICT projects
 - ✓ Have provided a platform for online examination system in the University
 - ✓ Panning to bring all three campuses of the University under one Network umbrella
 - ✓ Invited speaker of National seminar on Innovations and applications in Engineering and applied Sciences during Nov.9-10,2011 at Gurukul Kangri Vishwavidyalaya, Haridwar.
 - ✓ Organized three refresher courses successfully at SSJ Campus Almora on IT applications
- **As Examination Controller**
- ✓ Successfully conducted all Entrance Examinations of Kumaun University and the results were declared within a record period of ten days of about 20,000 applicants
 - ✓ Have ensured that the process is transparent and user friendly in the sense that all queries of the applicants are addressed in a timely and efficient manner
 - ✓ Worked for the automation of both pre and post examination modules

GENERAL INFORMATION

PERSONAL INFORMATION

Full Name : Prof.Hoshiyar Singh Dhami

Date of Birth : Aug.15,1954

Nationality : Indian

Mailing address: Prof.H.S.Dhami
(official) Vice-Chancellor ,
Uttarakhand Residential University, Almora

Contact Number: 05962-254246(o) , 9412092611(Cell)

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EDUCATION

Degree	University	Year	Subjects Offered	Division	Distinction If any
B.Sc.	Agra	1973	Physics, Chemistry and Mathematics	First	Distinction in Maths in B.Sc II
M.Sc.	Kumaun	1975	Mathematics	First	Second position in University Awarded Gold medal from PG College Pithoragarh
Ph.D.	Kumaun	1978	Mathematics	Topic: Theory of special functions and connected Integral Transforms	

ACADEMIC EXPERIENCE

Duration	Institution	Designation	Nature of work
17.9.75 to 7.11.75	Govt.P.G.College Pithoragarh	Lecturer (Leave vacancy)	Teaching and Research
9.11.75 to 31.12.75	-do-	Research Scholar	-do-
1.1.76 to 9.11.76	-do-	J.R.F.,C.S.I.R	-do-
15.9.78 to 28.7.81	Garhwal University Campus Pauri	Lecturer	Teaching and Research Guidance
29.7.81 to 21.9.90	Kumaun University Campus Almora	Lecturer	Teaching and Research Guidance
22.9.90 to 26.7.98	Kumaun University Campus Almora	Reader	-do-
27.7.98 – Contd	-do-	Professor and Head, 1 Feb.2010- 22 Jan.20123	-do-
22.02.2013-06.07.13	Kumaun University	Pro-Vice- Chancellor 22 Jan.2013-06- 07-13	Teaching, research and administration
07.07.13-18.11.13	Kumaun University	Vice-Chancellor (officiating)	Administration
19.11.13-31.10.16. 1.11.16 – Contd.	Kumaun University Uttarakhand Residential University	Vice-Chancellor Vice-Chancellor	Administration Administration

EXPERIENCE AS RESEARCH SUPERVISOR

Eighteen research scholars have worked successfully for their research degrees of Kumaun University in Mathematics and Information technology. Three other (out of which two are NET qualified) research scholars in mathematics and two in Information Technology are working at present.

The detailed description of Ph.D. awarded students is as under:

Name of Research Scholar	Year of Submission/Award	Topic
Ram Chandra Singh	1985	Expressions of special functions in terms of linear algebra
Madan Singh Rawat	1987	Applications of special functions expressed in matrix forms
Mrs. Shivani Agarwal	1987	Numerical evaluation of the Gauss function
Vijay Prakash Pande	1991	Applications of special functions and integral transforms in statistics and other disciplines
Km.Deepa Makholia	1992	Theory of integral transforms and applications
Mrs. Jaya Kandpal	1992	Mathematical analysis of Kumauni language
Rajesh Kumar	1998	Association of linear algebra with special functions

Anand Singh	2000	Proliferation of generating functions from different special functions
Lalit Kumar Verma	2003	Applications of special functions expressed in Matrix form
Lalit Mohan Upadhyay	2004	Generalisations of multiple hypergeometric functions by using Mathai matrix transform techniques
Bhupendra Singh Rana	2004	Numerical evaluation of special functions
Manoj Kumar Gaira	2005	Applications of fractional calculus to the theory of special functions
Raj Kishore Bisht	2008	Natural language processing through different mathematical and statistical tools
Hemlata Pande	2011	Application of mathematical methods to linguistic research for obtaining the distributions of words in corpora and models for frequencies
Rakesh Pande	2011	Application of Mathematical tools in stylistics and Generation of models for language description
Pramod Joshi	2011	Generation of multi dimensional functional spaces for special functions and their applications
Pritam Singh Negi	2011	Statistical language modeling for information retrieval (In Information Technology)
Sumit Khulbe	2011	Computational design for retrieval of sentences from English Language Database (In Information Technology)

ADMINISTRATIVE EXPERIENCE

Assistant Dean Students' Welfare : July 1984 - July 1989
 Proctor : July 1989 - Sept. 1994
 Dean Students' Welfare: 7, July 2005 - 30, October 200
 Coordinator Information technology: July 2003 - Oct.2011
 Director Information Communication Technology: Sept.2009 - Contd.
 Controller of Examinations : Sept. 2009 – March 2012.
 Coordinator Entrance Examinations : Session 2010 - 2011
 Coordinator, CEMS Uttarakhand : January 2012-Contd.
 Director, SSJ Campus Almora : 22 March 2012 – Contd.
 Pro-vice chancellor, Kumaun University : 22 Jan.2013- 06-07-2013 Forenoon
 Vice-Chancellor, Kumaun University : 06-07-2013 afternoon- 31.10.16
 Vice-Chancellor, Uttarakhand Residential University : 1.11.16- Contd.

PUBLICATIONS:

(a) Research Papers (Published) 152

1. H.S.Dhami (1981) Non-central Wishart distribution in terms of an E-function, Journal of the Indian Math.Soc.,45,393-97.
2. H.S.Dhami & J.M.C.Joshi (1981) Addition and multiplication theorems of an E- function, Acta Ciencia Indica, VII(m),3,199-204.
3. H.S.Dhami (1981) Related differential equations (Abstract),68 th session of the Indian Science Congress Association.
4. H.S.Dhami (1981) More solutions of an E-function's equation (Abstract), 50th Golden Jubilee session of National Academy of Sciences, India.
5. H.S.Dhami & J.M.C.Joshi (1981) Some functional relations for the generalised Beta function, Himalayan Journal of Science, 1(1),35-39.
6. H.S.Dhami (1981) Differential properties of an E-function, Himalayan Journal of Science, 1(1),53-59.
7. H.S.Dhami & M.S.Rawat (1982) Application of the confluent hypergeometric function to non-central Wishart distributions, Indian J. pure appl.Math.,13(7),806- 810.
8. H S.Dhami (1982) The use of matrix algebra in solving hypergeometric equation, Acta Ciencia Indica, VII(m),4, 199-202.
9. H.S.Dhami & R.C. Singh (1982) Solutions of Bessel's differential equation in diagonal linear algebraic form, Jour.Sci.Res.,4(2),111-113.
10. H.S.Dhami & M.S.Rawat (1982) Application of the recurrence relations of ${}_1F_1$ and ${}_2F_1$ to non-central Wishart distributions (Abstract), Annual session 1985 of the National Academy of Sciences, India.
11. H.S.Dhami (1983) Recurrence relations for an E-function of matrix argument, Jour.Sci.Res.,5(1),69-72.
12. H.S.Dhami (1983) Solutions of the differential equation of an E-function, The Mathematics Education, XVII(2), 70-74.
13. H.S.Dhami (1983) MacRobert's E-function of matrix argument (In Hindi), Vijnana Parisahd Anusandhan Patrika, 26(4),267-272.
14. H.S.Dhami & R.C. Singh (1983) Confluent hypergeometric function in linear algebraic form, Ganita, 34, 72-81.
15. H.S.Dhami (1984) Related differential equations, Acta Ciencia Indica, X(m),1,65-69.
16. H.S.Dhami & R.C.Singh (1984) Linear combination and linear dependence for the solutions of confluent hypergeometric equation, Acta Ciencia Indica, X(m),3, 204-208.
17. H.S.Dhami (1984) Recurrence relations for an E-function (In Hindi), Vijnana Parishad Anusandhan Patrika, 27(4),399-401.
18. H.S.Dhami (1984) Tables for an E-function (Abstract),50th Conference of Indian Mathematical Society.19. 9.
19. H.S.Dhami (1984) Fresh result for non-central Wishart distribution, Jour.Sci.Res.,6(1),15-17.
20. H.S.Dhami & R.C.Singh (1984) Linear algebraic expression of an E-function, The Mathematics Education, XVIII(3),94-97.

21. H.S.Dhami (1984) Tables for an E-function, *The Mathematics Education* XVIII(4), 140-146.
22. H.S.Dhami & M.S.Rawat (1985) Relation for the product of moments of the generalized variance of non-central Wishart distributions (Abstract), Annual session 1985 of the National Academy of Sciences, India.
23. H.S.Dhami (1986) Application of the recurrence relations of ${}_1F_1$ to non-central Wishart distributions, *Proc. Nat.Acad. Sci.India*, 57(A),342-345.
24. H.S.Dhami & R.C.Singh (1986) Solutions of an E-function's equation in linear algebraic form, *Acta Ciencia Indica*, XII(m),286-291.
25. H.S.Dhami & Shivani Agarwal (1986) Tables for the Gauss function in the range $a = 9.0-10.0$, *Acta Ciencia Indica*, XII(m),1, 20-25.
26. H.S.Dhami & R.C.Singh (1987) Linear algebraic expression for the Gauss function, *Proc. Nat. Acad.Sci.India*, 57(A),342-345.
27. H.S.Dhami & Shivani Agarwal (1987) Tables for the Gauss function in the range $a = 0.3-1.0$, *The Mathematics Education*, XXI(2),51-62.
28. H.S.Dhami & M.S.Rawat (1987) Distribution for multiple correlation coefficient in terms of confluent hypergeometric function, *Jour. Sci. Res.*,9(2&3),127-129.
29. H.S.Dhami & Vijay Pande (1990) Expression of Legendre polynomial in matrix form and its application, *Acta Ciencia Indica*, XVI(m),2,237-240.
30. Vijay Pande & H.S.Dhami (1990) Moments of the generalised variance of non- central Wishart distribution in new forms, *Ganita*, 41(1),43-48.
31. H.S.Dhami & Shivani Agarwal (1992) Tables for the Gauss function, *Acta Ciencia Indica*, XVIII(m),3, 207-214.
32. H.S.Dhami & R.C.Singh (1992) Expression of Legendre polynomial in matrix form and its application, *Acta Ciencia Indica*, XVIII(m), 3,255-260.
33. H.S.Dhami, M.S.Rawat & C.S.Joshi (1992) Application of the integral of ${}_1F_1$ to exact non-null distributions of a collection of test hypothesis, *Acta Ciencia Indica*, XVIII(m),221-224.
34. H.S.Dhami & Shivani Agarwal (1992) Tabulation of the Gauss function for $z = 0.5$, *Acta Ciencia Indica*, XVIII(m), 4, 379-384.
35. H.S.Dhami (1996) Mathematical linguistics as applied to Kumauni language, *Man, Culture and Society in the Kumaun Himalayas*, (General B.C.Joshi Commemoration Volume, edited by Dr. C.M.Agarwal), Shree Almora Book Depot. Almora.
36. Anand Singh & H.S.Dhami (Dec.1998) Formation of finite multiplicative group for n-lateral multiple hypergeometric functions, IMA Preprint series #,1596,Universirty of Minnesota, Minneapolis, USA.
37. Anand Singh & H.S.Dhami (Feb.1999) Multiplicative Groups and Subgroups for Lauricella type multiple hypergeometric functions when parameters as well as variables are increased, IMA Preprint series #,1604,University of Minnesota, Minneapolis, USA.
38. Anand Singh & H.S.Dhami (Feb.1999) Genesis of Groups and its Ramification from n-lateral multiple hypergeometric function, IMA Preprint series #,1605, University of Minnesota, Minneapolis, USA.

39. H.S.Dhami (Feb.1999) Amalgamation of pattern primitives for the generation of standard form of language, IMA Preprint series #,1609,University of Minnesota, Minneapolis, USA.
40. Anand Singh & H.S.Dhami (June 1999) A new generating function from the viewpoint of change in the nature of random variable in hypergeometric distributions, IMA Preprint series #,1618,University of Minnesota, Minneapolis, USA.
41. Anand Singh & H.S.Dhami (June 1999) Construction of generalized multiple hypergeometric function and contrivance of Appell functions as its special cases, IMA Preprint series #,1619,University of Minnesota, Minneapolis, USA.
42. Anand Singh & H.S.Dhami (June 1999) Expressions for the generating functions of the hypergeometric distributions when the parameters are of different nature, IMA Preprint series #,1620, University of Minnesota, Minneapolis, USA.
43. Anand Singh & H.S.Dhami (Aug.1999) Generation of basic, bilateral and basic bilateral series for B-function, IMA Preprint series #,1632,University of Minnesota, Minneapolis, USA.
44. Anand Singh & H.S.Dhami (Aug.1999) Generation of linear algebraic spaces for multiple hypergeometric functions, IMA Preprint series #,1633, University of Minnesota, Minneapolis, USA.
45. H.S.Dhami & L.K.Verma (Aug.1999) Justification of amalgamated pattern primitive variable for language description by the application of hypergeometric distribution, IMA Preprint series #,1637, University of Minnesota, Minneapolis, USA.
46. H.S. Dhami & L.K.Verma (Aug.1999) Development of algorithm for testing the influence of Indo-Aryan languages upon a language which is in the process of standardization, IMA Preprint series #,1638, University of Minnesota, Minneapolis, USA.
47. Anand Singh & H.S.Dhami (Oct.1999) Generating function of hypergeometric functions from the viewpoint of change in the nature of hypergeometric series, IMA Preprint series # 1644,University of Minnesota, Minneapolis, USA.
48. Anand Singh & H.S.Dhami (Oct.1999) n-lateral multiple hypergeometric functions, IMA Preprint series, #,1645, University of Minnesota, Minneapolis, USA.
49. Anand Singh & H.S.Dhami (Oct.1999) A note on the paper of Andrews, IMA Preprint series #1646, University of Minnesota, Minneapolis, USA .
50. H.S.Dhami & L.K.Verma (1999) ,Application of determinantal differential operator to non-central Wishart distributions (In Hindi), Vigyan Garima Sindhu (A research journal of Commission for Scientific and technical Terminology, Govt. of India), Vol. 30, 103-104.
51. H.S.Dhami & Jaya Kandpal (2000) Standardisation of Kumauni language using statistical techniques,Published in "Shikhar"-Salutations to Himalayas, A research Volume dedicated to the Himalayan Studies, (edited by Dr.C.M.agarwal),"Indian Publisher's distribution, New Delhi.

52. Anand Singh & H.S.Dhami (Feb.2000) A new proof of Chinese remainder theorem, IMA Preprint series # 1685, University of Minnesota, Minneapolis, USA.
53. H.S.Dhami (2000) Discoveries in Geometry by ancient Indian Mathematicians (Abstract) National Conference on History of Mathematics, Kumaun University Nainital , Oct.13-16,2000.
54. Dhami, H.S. & Rajesh Kumar (2000) Generation of Vector Space: Elements being Gauss Hypergeometric functions, Proc. Nat. Acad.,. Sci., India, 70(A), II-2000 , 191-198.
55. Anand Singh & H.S.Dhami (2001) Procreation of inner product space for generalised B-function, IMA Preprint series #1762, University of Minnesota, Minneapolis, USA.
56. H.S.Dhami & L.K.Verma (2001) Word problem for the free group generated for Kumauni language (Abstract) National Conference on the role of Mathematics in the New Millenium : Theories and applications, Jadhavpur University, March 23-25,2001.
57. H.S.Dhami (2001) Word standardization by non-parametric statistical methods, IMA Preprint series # 1765, University of Minnesota, Minneapolis, USA.
58. H.S.Dhami (2001) A review of the work being carried out presently on Kumauni language by using tools of mathematical linguistics, Uttaranchal Ke Anchal se (Monograph in Hindi), Indian Publishers Distributors, Delhi;279-287.
59. Lalit Mohan Upadhyay & H S Dhami (Nov. 2001) Matrix Generalizations of multiple hypergeometric functions, IMA Preprint Series # 1818 [PDF (73K), Postscript 870K and cover page), University of Minnesota, Minneapolis, USA.
60. Lalit Mohan Upadhyay & H S Dhami (Dec. 2001) On some multiple hypergeometric functions of several matrix arguments, IMA Preprint Series #1821[PDF (121 K) and compressed Postscript (203 K)], University of Minnesota, Minneapolis, USA.
61. Lalit Mohan Upadhyay & H S Dhami (Feb. 2002) On Kampe de Feriet and Lauricella functions of matrix arguments-I, IMA Preprint Series #1832[PDF 485k and Postscript (496K)] University of Minnesota, Minneapolis, USA.
62. Lalit Mohan Upadhyay & H S Dhami (Feb.2002) On Lauricella and related functions of matrix arguments –II, IMA Preprint Series #1836 [pdf37k and Postscript (355K)], University of Minnesota, Minneapolis, USA.
63. Lalit Mohan Upadhyay & H S Dhami (March 2002) Appel's and Humbert's functions of matrix arguments-I, IMA Preprint Series #1848, [pdf49k Postscript (49K)], University of Minnesota, Minneapolis, USA.
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- i. Rajkishore Bisht, Garima Srivastava and H S Dhmi (2010) Term weighting using term dependence, International Journal of Computer Applications (0975 – 8887) Published by Foundation of Computer Science, USA; Volume 3, No.11, 1-3.

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- j. Pramod Joshi and H S Dhami (2011) Trend analysis of Generalized hypergeometric functions, International Journal of Computer applications (0975-8887) Published by Foundation of Computer Science, USA; International Journal of Computer applications (0975-8887) Published by Foundation of Computer j. , USA; Vol. 13, No.5, 26-31.

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- k. Lalit Mohan Upadhyay and H S Dhami (2010) Generalized Horn's function of matrix argument, Bulletin of Pure and Applied Sciences, Mathematics, 29E(2),353-364.

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- l. Lalit Mohan Upadhyay and H S Dhami (2010) A summation formula for Horn's double hypergeometric functions, Bulletin of Pure and Applied Sciences, Mathematics, 29E(2),279-286.

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- m. Lalit Mohan Upadhyay and H S Dhami (2010) Generalized Horn's function of matrix argument, Bulletin of Pure and Applied Sciences, Mathematics, 29E(2),353-364.

have been cited by Ayman Shehata in the research paper entitled "On p and q-Horn's matrix function of two complex variables" appeared in Scientific Research (Open access) in Applied Mathematics.

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has been cited in Citeseer^{xβ} under the title: Hypergeometric functions, My love: Modular interpretations of configuration spaces, Aspects Maths E 32 by M Yoshida.

Six research papers have been cited in Citeseer^{xβ} on the title "A note on incomplete functions of matrix arguments with statistical applications (2009) by L M Upadhyay.

Five research papers have been cited in Citeseer^{xβ} by L M Upadhyay and H S Dhami under the title "Chandel's (k) (n) (k) (n) E functions.

Eight publications and 02 citations appear in Microsoft academic research.

In Google Scholar 73 citations, 5H-index and 1 i-index appear.

In dblp (Computer Science Library) 11 research papers appear.

157. Popular Scientific/Mathematical articles:

05 (In Hindi) Published in magazines like Vaigyanik (publication of TIFR Mumbai), Vigyan Vaichariki, Vigyanpuri of Science Academy, Uttar Pradesh; 15 others have appeared in local magazines (Taran) for the general interest of local students/ residents and popularization of Science in General and Mathematics in particular.

**158. Research papers (communicated for the favour of publication) :
05**

1. RajKishore Bisht & H S Dhama, A comparative evaluation of different collocation extraction techniques.
2. RajKishore Bisht & H S Dhama, Matrix representation of words and its application to formal language
3. RajKishore Bisht & H S Dhama, Extending matrix representation of words
4. H S Dhama and Shalini Sharma, Application of fuzzy logic and matrix algebra in the narration conversion of imperative and interrogative sentences.
5. Hemlata Pande and H S Dhama, Mathematical Modeling of the Frequencies of words of different lengths in Written Hindi language corpora and examination of the role of texts.

MAJOR THRUST AREAS

- **Mathematical linguistics:**
 - ✓ Formulation of English Grammar rules and development of computer programmes
 - ✓ Generation of models for Grapheme frequencies
 - ✓ occurrence of letters in texts
 - ✓ parts of speech patterns
 - ✓ collocation acquisitions using different mathematical/statistical/computational tools)
 - ✓ Sentence Boundary disambiguation
 - ✓ Use of Denotational mathematics in the explanation of language phenomenon with special emphasis on Fuzzy set theoretic approach
- Applications of special functions in Mathematical Statistics and other disciplines
- Numerical evaluation of special functions and plotting of graphs using MATLAB
- Range emanation of multiple hypergeometric functions using Meshgrid and Nngid techniques of MATLAB.
- Mathematical modeling of real world data of village ecosystem with special reference to Kumaun Himalaya

PARTICIPATION IN CONFERENCES/SEMINARS/WORKSHOPS/SYMPOSIUMS

- Attended 12th International Conference of International Academy of Physical Sciences (CONIAPS XII) in the capacity of Invited speaker and chaired a technical session.
- Attended State level conference on “Role of Science and Technology in the Development of Uttarakhand state” as Chief Guest of Valedictory session and closing function
- Always try to participate in Always try to participate actively in different national seminars / conferences /workshops held in India.
- ✓ Organizing Secretary of the International colloquium on History of History of Mathematical Sciences and Symposium on Nonlinear Analysis
- ✓ Shall be the organizing Secretary of the Uttarakhand State Science and Technology Congress, scheduled to be held at SSJ Campus of Kumaun University during Nov.14-16,2011.
- Invited to participate in International conferences at Mexico and Japan
- Have attended conferences of Indian Mathematical Society, Indian Science Congress and National Academy of Sciences, India

APPRECIATION OF RESEARCH WORK BY ACCREDITATION TEAMS

- Abstract of the comments of the U.G.C.team comprising six experts and three U.G.C. officials that visited this campus during the period (July 27-29,1988)

At Almora campus, Zoology and Mathematics departments are more active in effective teaching and creative research work and have very enthusiastic faculty members

- Abstract of the comments of Peer team on Institutional accreditation of Kumaun University, July 17-20,2000

Under the title Criterion II: Learning and evaluation, the experts of the visiting team have observed as under-

The high order particle physics studies and the application of mathematical tools to the study of local dialects are the other notable outputs.

The above two comments are reflection on my work as I have been working on the topics mentioned by the experts.

MEMBERSHIP OF PROFESSIONAL /ACADEMIC BODIES/SOCIETIES

- Elected Executive member of International Academy of Physical Sciences during its General Body meeting held at Jaipur on Dec.23,2010.
- Elected Executive member of Indian Society for History of Mathematics during its General Body meeting held at Almora on May 16,2011.
- Life member of Society for Special functions and applications
- Life member of International Academy of Physical Sciences
- Life member of Indian Society for History of Mathematics
- Had been elected member of London Mathematical Society
- Annual member of many Scientific and Mathematical Societies of India
- Member of Indian Science Congress
- Member of National Academy of Sciences, India
- Member of Society for pure and applied sciences- Mathematics and Statistics section
- Member Indian Mathematical Society
- Member curriculum committee of several institutions/universities

MISCELLANEOUS INFORMATION ON ACADEMIC ACTIVITIES

- ✓ Worked/Working as member Board of Studies of several Universities
- ✓ Convener Board of Studies, Research Degree Committee of Kumaun University in Mathematics and Information Technology
- ✓ Worked as expert/paper setter/examiner of several Universities as well as for UPSC, Uttarakhand State Public Service Commission, Private Management Colleges
- ✓ Worked as Session Chairman/ Chief Guest/ Special Guest in a number of National/ International Seminars / Conferences / Workshops
- ✓ Invited speaker at several Scientific conferences/ seminars/ symposium on different branches of Sciences particularly in Mathematics, Information technology and Physics.
- ✓ Invited speaker at National Institute of Vedic Sciences during its International Conference at Bangalore (23-25 December 2011).
- ✓ Invited to deliver an Invited talk in the 14th International Conference of the International Academy of Physical Sciences (CONIAPS XIV) being organized at the SVNIT, Surat India during December 22-24,2011.
- ✓ Invited as invited speaker in the conference of History of Mathematical Sciences, During January 2012.

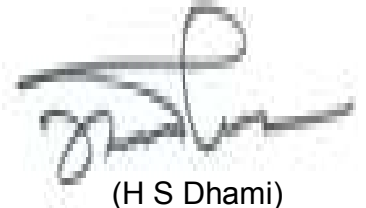
RESEARCH PROJECTS COMPLETED

- A major research project entitled “Mathematical analysis of Kumauni language” funded by NCERT has been successfully completed.

- Major research project entitled “Mathematical modeling and functional analysis of the village ecosystem with special reference to Kumaun Himalaya” of DOE & F, Government of India has been also successfully completed
- Worked on a UGC sponsored major research project entitled “Mathematical formalism and computer programmes for English rules”

REFERENCES

1. Prof. Rakesh Bhatnagar, Ex Vice-Chancellor, Kumaun University, Nainital
2. Prof. Ravi Kulkarni, Institute Chair, IIT Bombay; Professor, City University, New York
3. Prof. J K Verma, IIT Bombay
4. Prof. R C Pant, Ex Vice-Chancellor, Kumaun University, Nainital
- 5.. Prof. M S Raghunathan, Chairman, National Centre of Mathematics, IIT Bombay



(H S Dhami)