Kumaun University, Nainital
Curriculum Vitae

Name   : Dr. S. K. Chanyal

Designation   : Assistant Professor

Department   : Department of Mathematics

Contact Information

- Email Address   : skchanyal1432@rediffmail.com ;

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Vidwan ID   : ---

Educational Qualification:

Degree	University	Subjects	Year
Ph. D.	Kumaun University Nainital	Mathematics	2013
M. Sc.	-do-	-do-	2005
B. Sc.	-do-	Mathematics, Physics, Computer Science	2003
Other (NET)	**CSIR**	**Mathematical Sciences**	**2005**

Work Experience:

Position	Department	University/Organization	Year
Teaching Personnel	Department of Mathematics	Kumaun University Nainital	03
Assistant Professor	-do-	-do-	14

Administrative Responsibilities:

Equipped with the experience of contributing in the following academic / administrative responsibilities.
- In charge of departmental computer lab committee.
- Member of B. Sc. I Semester (NEP) admission committee.
- Member of M. Sc. I and M. Sc. III admission committee.
- Member of departmental library committee.
- Member of external flying squad team of Kumaun University.
- Assistant superintendent of examination (Evening session).

Research Interests: Riemannian Geometry, Differentiable Manifolds.

- Exploring the properties of structures defined on (pseudo)Riemannian manifolds.
- Working on problems of slant submanifolds in smooth manifolds equipped with pseudo-Riemannian metric and maps between them.

Publications:

a) **Research Papers:**

- Bhawana Chaube and **S. K. Chanyal**, "Quarter-symmetric metric connection on a p-Kenmotsu manifold", CUBO, vol. 26(1), 153–166, (2024)
- **S. K. Chanyal,** "Quasi-hemi slant submanifolds of para-Hermitian manifolds", Filomat, Vol.38(6), 2023–2033, (2024)
- Naveen Mehra, Garima Pant and **S. K. Chanyal,** "Growth of solutions of complex differential equations with entire coefficients having a multiply-connected Fatou component", Indian J Pure Appl Math, Vol.54, 895-906, (2023)
- Pawan Bhatt and **S. K. Chanyal**, "η-Ricci soliton on nearly-Sasakian manifolds", GANITA, Vol.72(1), 327-334, (2022)
- Pawan Bhatt and **S. K. Chanyal,** "LP-Kenmotsu Manifold Admitting Schouten-Van Kampen Connection", Jnanabha Vol.52(2), 28-37, (2022)
- **S. K. Chanyal** "Slant submanifolds in an almost paracontact metric manifold", ANALELE STIINTIFICE ALE UNIVERSITATII "AL.I. CUZA", IASI, LXVII, 213-229, (2021)
- B. C. Chanyal and **S. K. Chanyal,** "Dual number coefficient octonion algebra, field equations and conservation laws", Anal. Math. Phys., vol. 7, 319-334, (2017)
- Bhupesh Chandra Chanyal, **Sunil Kumar Chanyal**, Ozcan Bekta and Salim Y¨uce, "A new approach on electromagnetism with dual number coefficient octonion algebra", International Journal of Geometric Methods in Modern Physics, Vol. 13, 1630013 (22 pages), (2016)
- B. C. Chanyal, **S. K. Chanyal**, Virendra Singh and A. S. Rawat, "Proca-Maxwell Equations for Dyons with Quaternion", Applied Mathematics and Physics, Vol. 4, No. 1, 9-15, (2016)
- Jaya Upreti and **S. K. Chanyal,** "Conharmonic curvature tensor on (k,\mu) -contact metric manifold" ANALELE STIINTIFICE ALE UNIVERSITATII "AL.I. CUZA", IASI, LXII, 2, 681-694, (2016)
- Anita Kumari and **S. K. Chanyal,** "On the T Curvature Tensor of Generalized Sasakian Space Form", IOSR Journal of Mathematics, Vol. 11 (3), 61-68, (2015)
- Jaya Upreti, **S. K. Chanyal** and C. S. Prasad, "Semi-Symmetric Metric Connection in an LPS-Riemannian Manifold", Tensor New Series, vol. 74 (2), 209-211, (2013)
- Jaya Upreti and **S. K. Chanyal** "Pseudo-Slant submanifolds of a generalised almost contact metric structure manifold", Journal of The Tensor Society, vol. 4, 57-68, (2010)
- Jaya Upreti and **S. K. Chanyal,** "On Generalised semi-symmetric connection", Bulletin of Calcutta Mathematical Society, Vol.102(2), 159-168, (2010)
- Jaya Upreti and **S. K. Chanyal, "**A semi-symmetric non-metric sp-connection in an LSP-Sasakian manifold", Journal of National Academy Mathematics, vol. 22, 1-10, (2008)

b) Conference Publications/Proceedings:

- Naveen Mehra and **S. K. Chanyal,** "Solutions of Second Order Homogenous Linear Differential Equation", 7th International Conference on Computing, Communication and Security (ICCCS), Seoul, Republic of Korea, 1-4, (2022).
- Jaya Upreti and **S. K. Chanyal,** "Hypersurfaces of a Generalised r-contact product metric structure manifold", Interface between Statistics, Mathematics and Allied Sciences (proceeding), 87-94, (2011).

Patents/Books/Book Chapters/Projects: Nil

Teaching details:
- Taught courses like calculus, geometry, vector analysis, group theory and ring theory, differential equations, analysis, linear algebra etc. at UG level
- Taught differential geometry, Riemannian geometry, linear algebra, real analysis, complex analysis, tensor calculus, abstract algebra at PG level.
- Initiated teaching of programming-based courses like mathematical computation and computer programming etc. with practical assignments in the department.

Professional Memberships:

Sl. No.	Name of the Association/Organizations	Status of the membership
1	The Tensor Society India.	Life member
2	The National Academy of Mathematics India.	Life member
3	Bharat Ganita Parishad	Life member
4	Vijnana Parishad of India	Life member

Conference Presentations:

Sl. No.	Title of the paper	Title of conference/seminar	Year
1	Clairaut Semi-invariant Submersions from Sasakian Manifolds	International conference on Differential Geometry and Relativity	May 18-May 20, 2023
2	Slant Submanifolds of an almost para-contact pseudo-Riemannian manifold	International conference on Differential Geometry and Relativity	Nov. 08 – Nov. 10, 2019
3	M-Projective curvature tensor on a trans-Sasakian manifold	National conference on advances in Mathematics and its Applications (NCAMA-2018)	March 17 – March 18, 2018
4	Some results on (κ, μ) contact metric manifolds	8th conference of the Indian Science congress Association (Haridwar	Oct. 14 – Oct. 15, 2017

		Chapter) "Reaching the unreached through Science and Technology"	
5	On (κ, μ) -manifolds with respect to semi-symmetric non-metric connection	19th International conference of International Academy of Physical Sciences (CONIAPS-XIX)	Oct. 17 – Oct. 19, 2016
6	M-Projective curvature tensor on a (κ, μ) -contact manifold	1st National conference on Progressive Sciences and Engineering (NCPSE-2016)	Oct. 24 – Oct. 25, 2016
7	Conharmonic curvature tensor on (κ, μ) manifold	6th Uttarakhand State Science & Technology Congress-2011	Nov. 14 – Nov. 16, 2011
8	Some Curvature Tensors on (κ, μ) manifold with respect to Semi-symmetric Non-metric Connection	4th Annual Conference of The Tensor Society on Application of Tensors and Differential Geometry in Engineering and Physical Sciences	Oct. 08 – Oct. 09, 2011
9	An Introduction to Tensors	International Colloquium on History of Mathematical Sciences & Symposium on Non-Linear Analysis	May 16 – May 19, 2011
10	Hypersurfaces of a generalized almost contact product metric structure manifold	National seminar on Interface Between Statistics, Mathematics and Allied Sciences	Nov. 20 – Nov. 22, 2010
11	On Trans-Sasakian Manifold satisfying certain conditions on Concircular curvature tensor	National conference on Recent Trends in Pure & Applied Mathematics (CORTPAM-2010)	July 24 – July 25, 2010
12	Semi-symmetric metric connection in LPS Riemannian Manifold	National conference of The Tensor Society on Development of Differential Geometry	Oct. 02 – Oct. 03, 2009
13	Pseudo-slant submanifolds of a generalised almost contact metric structure manifold	XXIII Annual Conference of the Mathematical Society	Dec. 29 – Dec. 30, 2007

Any other Information:
- Organised the following conferences:

Sl. No.	Status as organizer	Title of the conference/seminar	Year and dates
1.	Academic Secretary	8th Conference of The Indian Science Congress Association (Haridwar Chapter) on "Reaching The Unreached Through Science And Technology", organized by Department of Mathematics and Department of Computer Science, DSB Campus, Nainital Venue: Dynasty Resort, Khurpatal, Nainital	October 14-15, 2017
2.	Co-Convener	19th International Conference of International Academy of Physical Sciences (CONIAPS XIX) & Symposium on Fixed Point Theory and Dynamical Systems, organized by Department of Mathematics and Department of Computer Science, DSB Campus, Nainital Venue: Dynasty Resort, Khurpatal, Nainital	October 17-19, 2016,

3.	Joint Secretary	National Conference on Development of Differential Geometry, organized by The Tensor Society Venue: Akash Ganga Guest House, Swargashram, Rishikesh	October 2-3, 2009

- Resource person in the following workshops:
    1. Two days interactive National Workshop on "Abstract Algebra" organised by Department of Mathematics, LSM Campus Pithoragarh (SSJU Almora), Sponsored by USERC during March 17-18, 2023.
    2. National workshop on "Real Analysis" organised by Department of Mathematics, SSJ University, Almora, Sponsored by USERC during Mar 28-Apr 02, 2022.

- Participated in the following faculty development programs:
    1. *Introduction to SageMath* organized by ICT Mumbai Category I Deemed to be University (MHRD/UGC) during May 20 –June 29, 2020 sponsored by TEQIP-III and MTTS Trust.
    2. *Instructional School for Lecturers (ISL) in Linear Algebra* at from sponsored by National Board for Higher Mathematics (NBHM) organized by CEMS Department of Mathematics, Kumaun University, S. S. J. Campus, Almora during March 17 –March 29, 2014.
    3. *Instructional School for Lecturers (ISL) in Differential Geometry* at from sponsored by National Board for Higher Mathematics (NBHM) organized by CEMS Department of Mathematics, Kumaun University, S. S. J. Campus, Almora during May 21 –June 09, 2012.
    4. *Instructional School for Lecturers (ISL) in Algebra* from sponsored by National Board for Higher Mathematics (NBHM) organised by CEMS Department of Mathematics, Kumaun University, S. S. J. Campus, Almora during Feb. 20 –March 03, 2012.
- Explored the subject with active participation on the following programme:
    1. International Symposium in Honor of Great Mathematician Srinivasa Ramanujan organised by the Department of Maths and Stats, Dr. Harishingh Gaur Vishwavidyalaya (A Central Univ.) Sagar on Dec. 22, 2021.
    2. Two days national webinar series on Recent Developments in Mathematics-2021 (NWSRDM-2021) organised by the Department of Mathematics, Davangere University, Davangere Karnataka during June 10-11, 2021.
    3. Two days national webinar on Linear Algebra and Complex Analysis organised by the Depertment of Mathematics, ANJA College (Autonomous) Sivakasi during June 18-19, 2020.
    4. International Webinar on "Recent Trends in Algebraic and Differential Geometry" organised by the Department of Maths and Stats, Dr. Harishingh Gaur Vishwavidyalaya (A Central Univ.) Sagar during June 15-16, 2020.
- Attended the following workshops:
    1. *Workshop on Algebra and Number Theory* organized by Department of Mathematics, S. S. J. Campus, Almora during March 22 –March 24, 2012.
    2. *National Workshop on Optimization- Theory and Practice* sponsored by Uttarakhand State Council for Science & Technology (UCOST)

organized by Department of Mathematics, S. S. J. Campus, Almora during Nov. 15 –Nov. 19, 2010.

- Attended the following Specific Refresher Courses:
    1. Refresher Course in Mathematics at Teaching learning center, Ramanujan College, University of Delhi during Aug. 31–Sept. 14, 2021.
    2. Refresher Course in Mathematics at UGC-HRDC University of Hyderabad during July 04 – July 24, 2018.
    3. Refresher Course in Statistics & Mathematics at Academic Staff College Nainital during Nov. 10 – Nov. 30, 2010.
- Computer and Programming Skills:
    - ✓ Mathematical Software- MATLAB, SageMath
    - ✓ Programming Language- C, C++, Python
    - ✓ Document Preparation Systems- Latex and MS Office
    - ✓ Operating Systems- Windows and Linux
    - ✓ Database Handling- MS Access, Sql

Signature of the faculty member