


Curriculum Vitae w.e.f. 2017

Full Name	Dr. Shankar Lal			
Designation	Associate Professor			
Department	Mathematics			
Campus	SRT Campus, Badshahithaul, Tehri			
Address	Department of mathematics, H.N.B. Garhwal University, Campus Badshahithaul, Tehri Garhwal			
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Education Qualification	M.Sc. Maths, I.T., Ph.D., Kumaun University Nainital			
Teaching Experience	19 Years	Research Experience	21 Years	
Research Interest and Fields of Specialization				
<ol style="list-style-type: none"> 1. Geometry/Global Geometry(Manifolds) 2. Bio-mathematics 				
Orientation and Refresher course attended:				
<ol style="list-style-type: none"> 1. Participate the 4-week orientation programme from UGC Academic Staff College, Nainital. 2. Participate the 3-week Refresher course in I.T. Application from UGC-ASC, Kumaun University, SSJ Campus, Almora. 				
Honours & Awards				
<ol style="list-style-type: none"> 1. Young Scientist Award, at Allahabad University. 2. Advanced training in Mathematics at KU Campus, Almora. (12 days) 3. Self-learning course, Understanding open Educational Resources, Commonwealth of learning, Canada. 				
Extracurricular activity:				
<ol style="list-style-type: none"> 1. Teaching and learning activities among the students, Admission Committee, examination duties and evolution of exam copy. 				
Membership of Organization				
<ol style="list-style-type: none"> 1. Life member of the tensor society, University of Lucknow. 2. Life member of National Academy of Physical sciences, University of Gorakhpur. 3. Life member of the International Journal of Physical Sciences, University of Allahabad. 				
Research Supervision (Ph.D. Degree Awarded)- 02				
Research Projects- NA				
Administrative Experience				
<ol style="list-style-type: none"> 1. Assistant Proctor 2018-19 2. Assistant Hostel Warden 2019-20 3. Deputy Chief Hostel Warden 2020- continued 4. Anti-Ragging Cell 				
Scientific Visits Abroad- NA				

Conference/Symposium/Workshop**International/National(Presented Paper)**

1. Mathematical model of population dynamics and growth due to climate change in India, International Conference on climate change and disaster risk reduction, Department of Geology, SRT Campus, badshahithaul Tehri Garhwal-UK October 26-28, **2018**.
2. Analysis of some metric solution with geometric form, National conference on advances in Mathematics and its applications, Department of mathematics, M. B. Govt. P. G. College, Haldwani (Nainital)-UK, 17-18 march, **2018**.
3. Smarandache curves in Euclidean space of parallel transport frame, International conference on advance Physics and Mathematics organized by ASAR Noida, India 22 September, **2019**.
4. Geometrical structure on manifold and Submanifold and their applications, National conference on Promoting the Advancement of Applied Sciences, organized by Department of Mathematics, HNB, Garhwal University, SRT Campus, badshahithaul Tehri Garhwal-UK, India, October 22-23, **2019**.
5. Smarandache curves in Euclidean space of parallel transport frame, 26th International conference, International academy of Physical Sciences on advance in topology and differential geometry organized by Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) Dec., 18-20, **2020**.
6. Geometrical stress tensor of the radiation fluctuations and quantum gravity, third national conference on Radiation Awareness and detection in natural environment (RADNET- III) organized by Department of Physics, SRT Campus, badshahithaul Tehri Garhwal-UK , March 18-20, **2021**.
7. K-contact metric Sasakian manifold and conformal Tensor, National conference on Integrity of Mathematics in advancement of Science, Technology and management (IMASTM 2021), organized by M.B. P.G. college. Haldwani (Nainital), Uttarakhand, 25-26 March, **2021**.
8. Invariant submanifolds in complex contact metric structure manifolds, 3rd International conference on Recent Trend science and Technology (ICRTST-2021) organized by Maa Shakumbhari Trust, Greater Noida, UP India, June 19-20, **2021**.
9. Schwarzschild metric tensor and Einstein equations of the Christoffel symbols, International conference on social science, management and Technology in covid Era organized by Indian Academicians and Researchers Association with Institut Za Naucha Istrazivanja I Razvoj, Montenegro, 4th July **2021**.
10. Semi-invariant almost contact manifold and Submanifolds, 4th International conference on Recent scientific and Technological Trends (ICRTT-2022) organized by MaaShakumbhari Trust, Greater Noida, UP India, 23-24 April **2022**.

Conference Organized

Joint Secretary Organized by me the National conference of the tensor society on development of differential geometry, at Rishikesh.

List of Research Paper Publications /Journals

1. Cartesian product of hyperbolic (F, g, r, η, ξ) structure, Lal, S, Int. J. of maths, trends and tech. vol.46 (2017), pp. 264-271. ISSN: 2231-5373

2. Almost product and decomposable Ricci and curvature recurrent manifolds, Lal, S, Aryabhata J. of math. & Informatics, vol 9, No. 2, (2017) pp. 223-228 ISSN: 0975-7139 (P), 2394-9309 (O)
3. Almost contact hyperbolic of a unified structure manifold, Lal, S, Int. Res. J. of natural and appl. Sci., vol. 4 Issue 8, (2017), pp.46-53. ISSN: 2349-4077
4. Stability Analysis of logistic growth model with immigration effect, Lal, S, & Kumar, V, Indian J. sci. Res. Vol. 16(1) (2017), pp. 112-119. ISSN: 0976-2876 (P), 2250-0138 (O)
5. Analysis of some metric solution with geometric form, Lal, S, Aryabhata J. of math. & Informatics, vol. No.9 Issue2, (2017), pp 43-52. ISSN: 09757139 (P) , 23949309 (O)
6. Quasi umbilical manifold of almost hyperbolic Hermite and KH-structure, Lal, S, Int. J. of Engi., sci and Math. Vol. 6 Issue 8 (2017), pp 126-132. ISSN: 2320-0294
7. Mathematical model of population dynamics and growth in India, Lal, S, Aryabhata J. of math. & Informatics, vol. 10, No.1, (2018), pp 199-208. ISSN: 0975-7139 (P), 2394-9309 (O)
8. Age structure model with migration flow in human population dynamics, Lal, S, & Kumar, V, J. of applied science and computations vol. 6(3), (2019), pp. 2870-2878. ISSN: 1076-5131
9. Analysis and application of time delay model in human population dynamics, Lal, S, & Kumar, V, J. of computer and mathematical sciences, vol. 10(4), (2019), pp 686-694. ISSN: 0976-5227 (P), 2319-8133(O)
10. Almost Product Structure on Differentiable Manifold with Nijenhuis Tensor, Lal, S, & Chandra, V, IJSTR, 8(9), pp. 2279-2281, (2019) (Scopus). ISSN: 2277-8616
11. On Sasakian Manifolds with a G-Tanaka Webster Connection, Lal, S, & Chandra, V, JICR, IX(XII), pp.1621-1633, (2019). (Scopus UGC). ISSN: 0022-1945
12. On 3-Dimensional Lorentzian Para-Kenmotsu Manifolds, Lal, S, & Chandra, V, Differential Geometry-Dynamical Systems (DGDS), 22, pp.87-94, (2020). ISSN: 1454-511X
13. HGF-structure manifold with Nijenhuis and curvature tensor, Lal, S, J. Of Xidian Uni., Vol. 14 (3), (2020) pp 915-928. ISSN: 1001-2400.
14. Mathematical modelling of population forecasting in India, Lal, S, J. of Interdis., Cy. Res., Vol. 12 (1), (2020), ISSN: 0022-1945
15. Generic submanifold of quaternion Kaehler manifold, Lal, S, & Chandra, V, Int., J., of Sta. & appli. Math., Vol. 5(6), (2020), pp 111-118. ISSN: 2456-1452
16. Parallel transport frame of Smarandache curve in Euclidean space, Lal, S, J. Mountain Res., Vol. 16(1), (2021), pp 225-233. ISSN:0974-3030(P),2582-5011(E), DOI:<https://doi.org/10.51220/jmr.v16i1.23>

17. Invariant submanifolds in complex contact metric structure manifolds, Lal, S, GANITA, 71(1), (2021), pp. 205-214. ISSN: 0046-5402
18. Eta-Ricci Soliton on Lorentzian Para-Kenmotsu Manifold, Lal, S, & Chandra, V, Balkan Journal of Geometry and its Applications (BJGA), 26(2), pp.33-43, (2021). (Scopus)
19. On Conformal and Almost Conformal Ricci Solitons Concerning Lorentzian-Trans-Sasakian Manifolds, Lal, S, & Chandra, V, GANITA, 71(1), pp. 33-43, (2021). ISSN: 0046-5402
20. On Lorentzian Almost Para-Contact Manifold, Lal, S, & Chandra, V, Journal of Mountain Research, 16(3), pp. 71-78, (2021). (web of science) ISSN: 0974-3030(P), 2582-5011(E)
21. H-Projective curvature and Ricci Recurrent manifolds, Lal, S, Wutan Huatan Jisuan Jishu, vol. 17 (4), (2021), pp 07-13 ISSN: 1001-1749
22. Certain conditions on η -Einstein $N(k)$ – contact metric manifolds, METSZET, Lal, S, & Mehrda, P, journal, vol. 7 issue 11, (2022), pp 304-311. ISSN: 2061-2710
23. Complex Sasakian contact metric manifold, Lal, S, & Mehrda, P, J. Mountain Res., Vol. 17(2), (2022), pp 219-225 ISSN: 0974-3030(P), 2582-5011(E), DOI: <https://doi.org/10.51220/jmr.v17i2.25>

Total Number of Research Publications- 23