

Personal Profile		
Name	Dr. Santu Dey	
Address with email	Present Add: Department of Mathematics, Bidhan Chandra College, Asansol Permanent Add: Vill: Subhasgram (Chanditala Sporting Club), PO: Subhasgram, Dist: South 24 Parganas, Kol: 700147 Email: santu.mathju@gmail.com santu@bccollegeasansol.ac.in	
Date of Joining	07.11.2019	
Teaching Experience	7 years	
Topics Taught	➤ Abstract Algebra ➤ Classical Algebra ➤ Graph Theory ➤ Complex Analysis ➤ Real Analysis ➤ Differential and Multivariable Calculus ➤ Differential Geometry ➤ Differential Equations (ODE and PDE) ➤ Discrete Mathematics	
Research Experience	5 years	
Research Area	➤ Broad Research Area: Differential geometry ➤ Particular interest: Different types of Ricci solitons on contact and complex manifolds, Investigation of some types of solitons on certain spacetimes.	
Award and Recognition (if any)	➤ All Travel & Accommodation Grant Funded by CIMI, France for attending International Thematic School at IMT	

any)	Toulouse, FRANCE during Jun 26- Jul 14, 2017. ➤ Qualified National Eligibility Test (CSIR-UGC NET) . ➤ Selected for “DST-INSPIRE- FELLOWSHIP”, conducted by DST, Govt. of India from 2014 to 2019. ➤ Recipient of “DST-INSPIRE (SHE) SCHOLARSHIPS” conducted by DST, Govt. of India from 2007 to 2011. ➤ Selected for “Science Academies’ Summer Research Fellowship” conducted by Indian Academy of Sciences, Bangalore in 2011. ➤ Ranked among the first five top scorers in University . ➤ Secured 2nd position in Secondary and Higher Secondary Examination in School.
Membership	➤ Life time member of Indian Mathematical Society. ➤ Life time member of Calcutta Mathematical Society. ➤ Life time member of Tensor Society, India.
Other Activity	❖ Organized Seminars & Presentations in the University. ❖ Actively took part in Quiz competition in school & university ❖ Acting as a Reviewer of the following journals of International repute: ➤ Journal of Geometry and Physics ➤ Hacettepe Journal of Mathematics and Statistics ➤ International Journal of Geometric Methods in Modern Physics ➤ Advances in Mathematical Physics ➤ General Relativity and Gravitation ➤ Palestine Journal of Mathematics ➤ Note di Matematica ➤ Journal of the Chungcheng Mathematical Society ➤ Kragujevac Journal of Mathematics ➤ Journal of Science and Arts ➤ Italian Journal of Pure and (uniud.it) ➤ Konuralp Journal of Mathematics. ➤ AMS : Mathematical Reviews ➤ FILOMAT (ni.ac.rs) ➤ Journal of Nonlinear Mathematical Physics Home (springer.com) ➤ Journal of Mathematical Sciences Home (springer.com)

	➤ Mathematics An Open Access Journal from MDPI ➤ Home International Journal of Theoretical Physics (springer.com) ❖ International Research Collaboration with more than 30 researchers all over the world.
List of Publications	<u>SCI/SCIE-indexed:</u> 1. Santu Dey, Certain results on gradient almost η-Ricci-Bourguignon soliton, Quaestiones Mathematicae, Taylor & Francis, Impact Factor-1.474, Vol. 47(2), 263-284, https://doi.org/10.2989/16073606.2023.2224587 (2024). 2. Santu Dey and Akram Ali, Certain paracontact metrics satisfying gradient η-Ricci-Bourguignon almost solitons, accepted for publication in International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor-2.1. 3. Santu Dey and Young Jin Suh, On η-contact metric manifolds satisfying an almost gradient Ricci-Bourguignon soliton, accepted for publication in Reviews in Mathematical Physics, World Scientific, Impact Factor-1.383, https://doi.org/10.1142/S0129055X24500326 (2024). 4. Santu Dey, Shyamal Kumar Hui, Soumendu Roy and Ali H. Alkhaldi, Conformal η-Ricci-Bourguignon soliton in general relativistic spacetime, International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor-2.1, Vol. 21, No. 8 (2024) 2450148 (17 pages). 5. Somnath Mondal, Santu Dey, Ali H. Alkhaldi, Ashis Kumar Sarkar and Arindam Bhattacharyya, Geometry of almost η-Ricci-Yamabe soliton on Kenmotsu manifolds, Filomat, Impact Factor-0.988 (2023), Vol. 38:24 (2024). 6. Soumendu Roy, Santu Dey, Ali H. Alkhaldi, Akram Ali and Arindam Bhattacharyya, η-Ricci-Yamabe soliton on Kenmotsu manifold with torse forming potential vector field, Filomat, Impact Factor-0.988, Vol. 38:8 (2024), 2707-2719, https://doi.org/10.2298/FIL2408707R 7. Santu Dey and Siraj Uddin, Applications of some types of solitons within the framework of Kahlerian spacetime manifolds, accepted for publications in International Journal of Geometric Methods

in **Modern Physics, World Scientific, Impact Factor-2.1**,
<https://doi.org/10.1142/S0219887823501438> (2023).

8. **Santu Dey** and Young Jin Suh, Geometry of almost contact metrics as an almost $\ast$ - η -Ricci-Bourguignon solitons, accepted for publications in **Reviews in Mathematical Physics, World Scientific, Impact Factor-1.383** (2023),
<https://doi.org/10.1142/S0129055X23500125>
9. **Santu Dey**, Soumendu Roy and Fatma Karaca, Geometry of almost contact metrics as a $\ast$ -conformal Ricci-Yamabe solitons and related results, accepted for publications in **International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor-2.1**,
<https://doi.org/10.1142/S0219887823501463> (2023).
10. Sumanjit Sarkar, **Santu Dey** and Arindam Bhattacharyya, A study of conformal almost Ricci solitons on Kenmotsu manifolds, **International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor-2.1**, Vol. 20, No. 4. (2023) 2330001 (16 pages), <https://doi.org/10.1142/S0219887823300015>.
11. **Santu Dey**, Conformal Ricci soliton and almost conformal Ricci soliton in paracontact geometry, **International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor-2.1**, Vol. 20, No. 3 (2023) 2350041 (17 pages),
<https://doi.org/10.1142/S021988782350041X>.
12. **Santu Dey** and Siraj Uddin, Characterization of almost $\ast$ -conformal η -Ricci soliton on para-Kenmotsu manifolds, **Filomat, Impact Factor-0.988**, Vol. 37:11 (2023), 3601-3614,
<https://doi.org/10.2298/FIL2311601D>.
13. **Santu Dey**, Piscoran Laurian-Ioan and Soumendu Roy. "Geometry of $\ast$ - k -Ricci-Yamabe soliton and gradient $\ast$ - k -Ricci-Yamabe soliton on Kenmotsu manifolds", **Hacettepe Journal of Mathematics & Statistics (SCI), Impact Factor-0.867**,
<https://doi.org/10.15672/hujms.1074722> (2023).
14. **Santu Dey**, Certain results of κ -almost gradient Ricci-Bourguignon soliton on pseudo-Riemannian manifolds, **Journal of Geometry and Physics, Elsevier (SCI), Impact Factor-1.6**, Vol. 184(2022), 104725,
<https://doi.org/10.1016/j.geomphys.2022.104725>.

15. **Santu Dey** and Soumendu Roy, Characterization of general relativistic spacetime equipped with η -Ricci-Bourguignon soliton, **Journal of Geometry and Physics, Elsevier, Impact Factor-1.6**, Vol: 178 (2022) 104578, <https://doi.org/10.1016/j.geomphys.2022.104578>.
16. **Santu Dey**, Meraj Ali Khan, Soumendu Roy and Peibiao Zhao, Characterization of general relativistic spacetime equipped with different types of solitons, **International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor 2.1**, Vol: 19, No. 14. (2022), 2250218 <https://doi.org/10.1142/S0219887822502188>.
17. **Santu Dey** and Siraj Uddin, Conformal η -Ricci almost solitons of Kenmotsu manifolds, **International Journal of Geometric Methods in Modern Physics, World Scientific, Impact Factor-2.1**, Vol. 19, No. 8, (2022) 2250121, <https://doi.org/10.1142/S0219887822501213>.
18. Yanlin Li, **Santu Dey**, Sampa Pahan and Akram Ali, Geometry of conformal η -Ricci solitons and conformal η -Ricci almost solitons on paracontact geometry, **Open Mathematics, De Gruyter, Impact Factor-0.979**, 20(1): 574–589, (2022), <https://doi.org/10.1515/math-2022-0048>.
19. Sumanjit Sarkar, **Santu Dey**, Ali H. Alkhaldi and Arindam Bhattacharyya, Geometry of para-Sasakian metric as an almost conformal η -Ricci soliton, **Journal of Geometry and Physics, Elsevier, Impact Factor-1.6**, Vol: 181 (2022) 104651, <https://doi.org/10.1016/j.geomphys.2022.104651>.
20. Somnath Mondal, **Santu Dey** and Arindam Bhattacharyya, Characterization of almost η -Ricci-Yamabe soliton and gradient almost η -Ricci-Yamabe soliton on almost Kenmotsu manifolds, accepted for publication in **Acta Mathematica Sinica, English Series, Springer, Impact Factor-0.955**, <https://doi.org/10.1007/s10114-023-2233-4> (2023).
21. Yanlin Li, Somnath Mondal, **Santu Dey**, Arindam Bhattacharyya and Akram Ali, A study of conformal η -Einstein Solitons on trans-Sasakian 3-manifold, accepted for publication in **Journal of Nonlinear Mathematical Physics, Springer, Impact Factor-1.163** (2022), <https://doi.org/10.1007/s44198-022-00088-z>.

22. Yanlin Li, Fatemah Mofarreh, **Santu Dey**, Soumendu Roy and Akram Ali, General Relativistic Space-Time with η -Einstein Metrics, **Mathematics**, **MDPI**, **Impact Factor-2.592**, (2022), 10, 2530. <https://doi.org/10.3390/math10142530>.
23. Zhizhi Chen, Yanlin Li, Sumanjit Sarkar, **Santu Dey** and Arindam Bhattacharyya, Ricci Soliton and Certain Related Metrics on a Three-Dimensional Trans-Sasakian Manifold, **Universe**, **MDPI**, **Impact Factor-2.813**, (2022), 8, 595, <https://doi.org/10.3390/universe8110595>.
24. Pengfei Zhang, Yanlin Li, Soumendu Roy, **Santu Dey** and Arindam Bhattacharyya, Geometrical Structure in a Perfect Fluid Spacetime with Conformal Ricci-Yamabe Soliton, **Symmetry**, **MDPI**, **Impact Factor-2.940**, 14, (2022), 594, <https://doi.org/10.3390/sym14030594>.
25. **Santu Dey** and Nasser Bin Turki, $\ast$ - η -Ricci Soliton and Gradient Almost $\ast$ - η -Ricci Soliton Within the Framework of Para-Kenmotsu Manifolds, **Frontiers in Physics**, **Impact Factor-3.718**, Vol:10, (2022), <https://doi.org/10.3389/fphy.2022.809405>.
26. Yanlin Li, Dipen Ganguly, **Santu Dey** and Arindam Bhattacharyya, Conformal η -Ricci solitons within the framework of indefinite Kenmotsu manifolds, **AIMS Mathematics**, **Impact Factor-2.739**, 7(4): 5408–5430, (2022), DOI: 10.3934/math.2022300.
27. Dipen Ganguly, **Santu Dey**, Akram Ali and Arindam Bhattacharyya, Conformal Ricci soliton and quasi-Yamabe soliton on generalized Sasakian space form, **Journal of Geometry and Physics**, **Elsevier**, **Impact Factor-1.6**, 169 (2021) 104339, <https://doi.org/10.1016/j.geomphys.2021.104339>.
28. Sumanjit Sarkar, **Santu Dey** and Xiaomin Chen, Certain Results of Conformal and $\ast$ -Conformal Ricci Soliton on Para-Cosymplectic and Para-Kenmotsu Manifolds, **Filomat**, **Impact Factor-0.988**, 35:15 (2021), 5001–5015, <https://doi.org/10.2298/FIL2115001S>.
29. **Santu Dey**, Sumanjit Sarkar and Arindam Bhattacharyya, $\ast$ - η -Ricci soliton and contact geometry, **Ricerche di Matematica**, **Springer**, **Impact Factor-1.166**, <https://doi.org/10.1007/s11587-021-00667-0> (2021).

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| | <p>30. Pengfei Zhang, Yanlin Li, Soumendu Roy and Santu Dey, Geometry of α-Cosymplectic Metric as $\ast$-Conformal η-Ricci-Yamabe Solitons Admitting Quarter-Symmetric Metric Connection, Symmetry, MDPI, Impact Factor-2.940, (2021), 13, 2189, https://doi.org/10.3390/sym13112189.</p> <p>31. Sampa Pahan and Santu Dey, Warped products semi-slant and pointwise semi-slant submanifolds on Kaehler manifolds, Journal of Geometry and Physics, Elsevier, Impact Factor-1.6, 155 (2020) 103760, https://doi.org/10.1016/j.geomphys.2020.103760.</p> |
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