



DR. CHANDAN KUMAR MONDAL

Assistant Professor

BRIEF

My primary research field is differential geometry, more specifically geometric analysis. Currently, I am studying the application of PDE in Riemannian Geometry. I am also interested in Riemannian surface and application of the Riemann-Roch theorem.

CONTACT

DEPARTMENT: Department of Mathematics

SCHOOL OF STUDIES: School of Sciences

DATE OF JOINING: 20th Sep, 2018

ADDRESS: School of Sciences,
Durgapur Regional Center,
Durgapur-713214, Paschim
Bardhaman, West Bengal, India,

WEBSITE:

<https://sites.google.com/view/ckmondal/home>

EMAIL:

- chan.alge@gmail.com
- chandanmondal@wbnsou.ac.in

ACADEMIC QUALIFICATION

M.Sc., Ph.D.

TEACHING EXPERIENCE

Netaji Subhas Open University, Assistant Professor of Mathematics
20th Sep, 2018–Present

AWARDS AND FELLOWSHIPS

- CSIR-UGC-NET (JRF)- June, 2014
- CSIR-UGC-NET (JRF)- June, 2015
- GATE- 2015

RESEARCH INTERESTS & EXPERIENCE

- Riemannian Geometry
- Geometric Analysis
- Riemann Surface
- Partial Differential Equation

ADMINISTRATIVE EXPERIENCE

- Convener of the Workshop on Preparation of SLMs under CBCS of UG Mathematics at NSOU by the School of Sciences, NSOU, 22 April, 2019
- Member of the study center visit team of Kaliyaganj College and Gour Mahavidyalay 15-16 May, 2019.
- Member of the Organizing Committee of the NSOU Online Special Lecture Series in Mathematics, 2020-21.
- Editorial board member of the Pure and Applied Mathematics Journal (2020-2022)
- Organizing Secretary of the LMS sensitization programme in NSOU, School of Sciences, 23rd March, 2022.
- Working as a reviewer in MathSciNet and zbMath.
- Reviewed articles in
 - Advances in Mathematical Physics
 - Journal of Basic and Applied Research International
 - Boundary Value Problems

UG & PG TEACHING ASSIGNMENTS

- UG:
 - Real analysis
 - Abstract & Linear algebra

- Differential equation
- Complex analysis
- PG:
 - Abstract & Linear algebra
 - Differential geometry
 - Topology
 - Measure theory
 - Complex analysis

MEMBERSHIP OF DIFFERENT COMMITTEES

- Member of Board of Studies of Under graduate of Netaji Subhas Open University since 2018.
- Member of Board of Studies of Post graduate of Netaji Subhas Open University since 2018.

MEMBERSHIP OF PROFESSIONAL BODIES

- Annual Member of the Indian Mathematical Society since 2021
- Life Member of the Calcutta Mathematical Society since 2022
- Affiliate Member of the American Mathematical Society since 2022
- Member of the Centre for Propagation of Scientific Knowledge (CPSK) since-2022

ELIGIBILITY TEST CLEARED NET/SET/GATE etc.):

Sl. No.	Details
1.	CSIR-UGC-NET (JRF) June-2014
2.	CSIR-UGC-NET (JRF) June-2015
3.	GATE- 2015

RESEARCH PROJECTS:

Sl. No.	Name of the Project	Funding Agency	Period	Grant Mobilized	Outcome
1.	An investigation of some geometrical and topological properties of Ricci soliton in a manifold	NSOU	One year	Rs 1,10000/-	2022-Ongoing

E-CONTENT

Sl. No.	Details	Quadrant I/II/III/IV	Link
1	Advance Differential Geometry Paper X (I)	I	http://lms.nsouict.ac.in/course/view.php?id=193&section=1
2	Paper IA Group A : Abstract Algebra	I	http://lms.nsouict.ac.in/mod/url/view.php?id=2253

DETAILS OF PUBLICATIONS (BOOKS/ EDITED VOLUME / RESEARCH PAPERS/REVIEW): [Last 10 Year]

Sl. No.	Title of the paper vol. No., Issue No., Page No,	Publisher	Year of publication	ISSN/ ISBN
1	Integral Liouville theorem in a complete Riemannian manifold, Vol-23, Issue No.-2, Page: 56-66.	Balkan J. Geom. Appl	2018	1224-2780
2	Some results on phi-convex functions and geodesic phi-convex functions, Vol-20	Diff. Geom. Dyn, Syst.	2018	1454-511X

3	A note on convex sets in a complete Riemannian manifold, Vol-11, Issue No.-60, Page-119-124.	Bulletin Univ. Transilvania Brasov.	2018	2810-2029
4	Non-existence of certain type of convex functions on a Riemannian manifold with a pole, Vol-140, page:104-110	J. Geom. Phy.	2019	0393-0440
5	On locally phi-semisymmetric Sasakian manifolds, Vol-48, issue No.-8, Page: 1156-1169.	Hacettepe J. Math. Stat.	2019	2651-477X
6	Some results in η -Ricci Soliton and gradient ρ -Einstein soliton in a complete Riemannian manifold, Vol-34, Issue No.-4, Page: 1279-1287.	Comm. Korean Math. Soc.	2019	1225-1763
7	Geodesic Sandwich Theorem with an Application, Vol-23, issue No.-1, Page: 161-167.	Math. Inequal. Appl.	2020	1331-4343
8	An interior fixed point property of a convex domain in a Riemannian manifold with a pole, Vol-22, Page: 250-253.	Diff. Geom. Dyn. Syst.	2020	1454-511X
9	On Ricci solitons whose potential is convex, Vol-130, Page-1-7	Proc. Indian Acad. Sci. (Math. Sci.)	2020	0973-7685
10	Some properties of geodesic (α, E) -preinvex functions on a Riemannian manifold, Vol-7, Issue No.-2, Page: 201-210.	Khayyam J. Math.	2021	2423-4788
11	Compact gradient ρ -Einstein soliton is isometric to the Euclidean sphere, Vol-52, issue No.-2, Page: 335-339.	Indian J. Pure Appl. Math.	2021	0019-5588
12	Isometry theorem of gradient Shrinking Ricci solitons, Vol-163, Page: 104110.	J. Geom. Phy.	2021	0393-0440
13	Diameter estimation of gradient ρ -Einstein solitons, Vol-177, Page: 104518.	J. Geom. Phy.	2022	0393-0440
14	A note on the isoperimetric inequality in the plane	Palestine J. Math.	Accepted	2219-5688
15	Characterization of the potential function of a Ricci soliton	Proc. Indian Acad. Sci. (Math. Sci.)	Accepted	0973-7685
16	Existence of finite global norm of potential vector field in a Ricci soliton	Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci.	Accepted	0369-8203

PAPERS PRESENTED AT SEMINARS, CONFERENCES, WORKSHOPS, ETC.: [Last 10 Year]

Sl. No.	Title of Paper/ Lecture	Organizing Institute	Conference, Seminar, workshop etc.	International (Within Country)/ International (Abroad)/National	Role
1	A note on the isoperimetric inequality in the plane	University of Gour Banga	ICEAMS-2017	International	Paper presenter
2	Integral Liouville theorem in a complete Riemannian manifold	CMS	National conference on Mathematical analysis and Mathematical Modelling, 2018	International	Paper presenter
3	Some results in η -Ricci Soliton and gradient ρ -Einstein soliton in a complete Riemannian manifold	The University of Burdwan	National Seminar on Recent trends in Mathematical sciences, 2019	National	Paper presenter
4	Non-existence of certain type of convex functions on a Riemannian manifold with a pole.	University Politehnica of Bucharest and the Balkan Society of Geometers	International Conference of Differential Geometry and Dynamical Systems (DGDS 2020)	International, Romania	Paper presenter
5	Non-existence of certain type of convex functions on a Riemannian manifold with a pole.	The University of Burdwan	International Webinar on Mathematics and Applications (IWMA-2020)	International	Paper presenter

6	On Ricci solitons whose potential is convex	CMS	International Webinar on Recent Trends of Mathematical Science (IWRMS 2022)	International	Paper presenter
---	---	-----	---	---------------	-----------------

**PROGRAMMES COORDINATED/ ORGANISED AS CONVENER / ORGANISING SECRETARY AT NETAJI SUBHAS OPEN UNIVERSITY:
[Last 5 Year]**

Sl. No.	Programme Name	Sponsored by	Period
1	Organizing secretary of Workshop on Preparation of Programme Project Report (PPR)	School of Sciences and CIQA, NSOU	28th Feb, 2023
2	Organizing secretary of LMS sensitization programme in NSOU	School of Sciences, NSOU	23 March, 2022
3	Organizing secretary of NSOU Online Special Lecture Series in Mathematics, 2020-21	School of Sciences, NSOU	2020-21
4	Convener of Workshop on Preparation of SLMs under CBCS of UG Mathematics at NSOU	School of Sciences, NSOU	22 April, 2019
5	Study center visit team of Kaliyaganj College and Gour Mahavidyalay	School of Sciences, NSOU	15-16 May, 2019

Declaration: *I assert that the details furnished above are all true to the best of my knowledge.*

Chandan K. Mondal

Signature

Date: 22/11/2022