

CURRICULUM VITAE



To be placed under: HOD / Faculty/ Former Faculty

Name: Dr. PADMANAVA SAMANTA

Designation: Assistant Professor (Stage-III)

P.G. Department of Mathematics

Berhampur University

Qualification: M.Phil., Ph.D., D.Sc.

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VIDWAN ID: 296217

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Research score- 836.3, citations- 221, h-index- 10, i-index-6

Research Area: **Summability Theory, Fuzzy Inventory Modelling, Graph Theory**

Work Experience:

- Degree Classes -22 years
- P.G. Classes (Mathematics) -14 years
- M.Phil. Classes (Mathematics) -10 years
- Research Supervision -15 years

Publication (Books):

1. P.N. Samanta, Theory and Some Application of Summability Methods, LAMBERT Academic Publication, Omni Scriptum GmbH & Co. KG, Germany. ISSN 978-3-659- 32768-1, (2013)
2. A.K. Sahoo, P.N. Samanta, S.K. Indrajitsingha, Application of Summability Theory in Fourier Series, Scholar's Press, Germany, ISSN 978-3-659-83824-8, (2016)
3. P.N. Samanta, Graph Theory: A Study on Antipodal Graph, LAMBERT Academic Publication, Omni Scriptum GmbH & Co. KG, Germany. ISSN 978-3-330-34252-1, (2017)
4. P.N. Samanta, An Introduction to Inventory Models of Deteriorating Items, LAMBERT Academic Publication, Omni Scriptum GmbH & Co. KG, Germany. ISSN 978-3-659-22646-5, (2017)

(b)Research Paper (International / National):

1. S.K. Indrajitsingha, P. Raula, P.N. Samanta, U.K. Misra, L.K. Raju (2021): An EOQ Model of Selling-Price-Dependent Demand for Non-Instantaneous Deteriorating Items during the Pandemic COVID-19, Walailak Journal of Science and Technology, ISSN(o)2228-835X, Vol18, Issue-12, pp. 1-14, DOI: <https://doi.org/10.48048/wjst.2021.13398>, Scopus Indexed .
2. S.K. Indrajitsingha, P. Raula, P.N. Samanta, U.K. Misra (2021): A fuzzy model for deteriorating products using preservation technology, Indian J. of Natural Sciences, ISSN 0976- 0997, Vol-12, Issue-67, pp.33134-33142, Web of Science.
3. K.N. Prakash, P.N. Samanta, N. Misra (2021), Inverse Sum Status Energy of a Graph, Int. J. for Research in Applied Science and Eng. Tech. , ISSN 0976-0997, Vol-12, Issue-66, pp.1-5, Web of Science
4. K.N. Prakash, P.N. Samanta, N. Misra (2021), Redefined third Zagerb of Graph, Indian J. of Natural Sciences, ISSN 0976-0997, Vol-12, Issue-66, pp.1-5, Web of Science
5. S.K. Indrajitsingha, A.K. Sahoo, P.N. Samanta, U.K. Misra (2021): Inventory Model with Partial Backordering and Single Deteriorating Item for a Two-Warehouse System, Recent Trends in Applied Mathematics. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-9817-3_3, pp. 23-33, ISBN (P)978-981-15- 9816-6, ISBN(O) 978-981-15-9817-3. Scopus Indexed.
6. B. Padhy, P.N. Samanta and U.K. Misra, Optimal replenishment policy for a two warehouse inventory model with fuzzy demand and deterioration under trade credit offer, Shodh Sarita, ISSN 2348-2397, Vol. 7(28), 2020, pp. 24-31
7. B. Padhy, P.N. Samanta and U.K. Misra, The optimal replenishment rate of inventory items having fuzzy demand and deterioration, Shodh Sarita, ISSN 2348-2397, Vol. 7(28), 2020, pp. 112-120.
8. B. Padhy, B. A. Kumar, U. Misra and P.N. Samanta, Optimization of three level production inventory model for deteriorating items with shortages under fuzzy environment, TEST Engineering and Management, ISSN 0193-4120, Vol. 83(3), 2020, pp. 14344-14357 (Scopus).

- 9.** S.K. Indrajitsingha, A.K. Sahoo, P.N. Samanta, U.K. Misra, L.K. Raju (2020): Fuzy EOQ inventory model for price-dependent-demand of deteriorating items, Indian J. of Natural Sciences, ISSN 0976-0997, Vol-11, Issue-64, pp.28868-28877, Web of Science.
- 10.** R.C. Padhy, M. Misra, P.N. Samanta, U.K. Misra, Indexed Norlund summability factor of improper integrals, IOP Conf. Series: J. of Physics: Conf. Series 1344(2019) , doi:10.1088/1742-6596/1344/1/012019
- 11.** S.K. Indrajitsingha, P.N. Samanta, L.K. Raju and U.K. Misra : Two-storage inventory model for deteriorating items with price dependent demand and shortages under partial backlogged in fuzzy approach, LogForum, e ISSN 1734-459X, p ISSN 1895-2038, Vol-15, Issue-4(2019), pp.487-499, DOI: 10.17270/J.LOG.2019.344, ESCI (Web of Science), SCOPUS .
- 12.** S.K. Indrajitsingha, P.N. Samanta and U.K. Misra: A fuzzy two-warehouse inventory model for single deteriorating item with selling price dependent demand and shortages under partially backlogged condition, Applications and Applied Mathematics, ISSN 1932-9466, Vol-14, Issue-1 (2019), pp. 511-536, ESCI (Web of Science) .
- 13.** A.K. Sahoo, S.K. Indrajitsingha, P.N. Samanta and U.K. Misra: Selling price dependent demand with allowable shortages model under partially backlogged- deteriorating items, Int. J. of Appl. Comp. Math,5: 104, ISSN(P) 2349-5103, ISSN(O) 2199-5796, <https://doi.org/10.1007/s40819-019-0670-7>, Scopus Indexed (Springer)
- 14.** R.C. Padhy, B.P. Padhy, P.N. Samanta, M. Misra, U.K. Misra, An application of product Summability to approximating the conjugate series of a special class of signals, Punjab University J. of Mathematics, ISSN 1016-2526, Vol. 51, Issue. 7, 2019, pp.27-34. ESCI (Web of Science), UGC Enlisted Sl. No. 47387.
- 15.** B. Padhy, B. A. Kumar, U.K. Misra, P.N. Samanta, An EOQ model for homogeneous items with various demands and deteriorations under fuzzy environment, Far East J. of Mathematical Sciences, ISSN 0972-0871, Vol. 116, Issue. 1, pp. 69-81, <http://dx.doi.org/10.17654/MS116010069>, UGC approved journal.
- 16.** B. Padhy, P.N. Samanta, L.K. Raju, U.K. Misra, A fuzzy inventory model for deteriorating items with price-dependent demand and shortages, Int. J. of Advance and Innovative Research, ISSN 2394-7780, Vol. 6, Issue. 2, 2019, pp. 34-39, UGC approved journal.
- 17.** R. Padhy, M. Misra, P.N. Samanta, U.K. Misra, Generalised absolute matrix indexed Summability factors of Fourier Series, Bull. of Cal. Math. Soc., ISSN 0008 0659, Vol. 111, Issue 1, pp. 65-78, (2019). UGC Enlisted Sl. No. 9543
- 18.** B.P. Padhy, B. Majhi, P. Samanta, M. Misra, U.K. Misra, A note on the use of quasi-f-power increasing sequence in absolute indexed Riesz Summability, AIP Conference Proceedings 2016, 020117 (2018); doi: 10.1063/1.5055519 SCOPUS, ESCI (Web of Science)

- 19.** B.P. Padhy, B. Majhi, P. Samanta, M. Misra, V. Vandana, U.K. Misra, A note on the absolute indexed norlund summability, *New Trends in Mathematical Science*, Vol. 6, Issue 4, pp. 54- 59, (2018), I.F.= 0.654
- 20.** L.N. Mishra, P.K. Das, P.Samanta, M. Misra, U.K. Misra, On Indexed Absolute Matrix Summability of an Infinite Series, *App. and Applied Mathematics*, ISSN 1932 9466, Vol. 13, Issue 1, pp. 274-285, (2018), ESCI (Web of Science). UGC Enlisted Sl. No. 47348.
- 21.** S.K Paikray, B. Majhi, P.N. Samanta, M. Misra and U.K. Misra, On double absolute factorable matrix summability, *The J. of the Indian Academy of Mathematics*, ISSN: 0970- 5120, Vol. 39, Issue. 2, pp. 175-202, (2018).
- 22.** S.K Indrajitsingha, P.N. Samanta and U.K. Misra, A fuzzy inventory model for deteriorating items with stock dependent demand rate, *Int. J. for Logistics and Systems Management*, ISSN (O) 1742 7975, ISSN (P) 1742 7967, Vol. 30, Issue-4, pp. 538-555. (2018). SCOPUS, UGC Enlisted Sl. No. 23052
- 23.** R.C. Padhy, B.P. Padhy, P.N. Samanta, M. Misra, U.K. Misra : "A theorem on degree of approximation of fourier series of a function of Lipschitz class by product means", *Int. J. of Mathematics and Computation*, ISSN(O) 0974-570X, ISSN(P) 0974-5718, Vol. 29, Issue. 3, 2018, pp.71-78.
- 24.** P. Raula, S.K. Indrajitsingha, P.N. Samanta, L.K. Raju, U.K. Misra : "Inventory model of deteriorating items for supermarket : A fuzzy approach", *Asian J. of Mathematics and Computer Research (U.K)*, ISSN(O) 2395-4213, ISSN(P) 2395-4205, Vol. 23, Issue. 4, March 2018, pp.231-239. UGC Enlisted Sl. No. 48884.
- 25.** B.P. Padhy, B. Majhi, P. Samanta, M. Misra, U.K. Misra : "A note on the use of quasi-f-power increasing sequence in absolute indexed Riesz summability", *The 6th Int. Conf. on Computer Engineering and Mathematical Sciences (ICCEMS-2017)*, Published by SandKRS, Malaysia, pp. 121-123.
- 26.** S.K. Paikray, P.K. Das, P.N. Samanta, M. Misra & U.K. Misra: "Double absolute matrix summability methods", *Int. J. of Advance Research in Sc. & Engg.*, ISSN(O) 2319-8354, ISSN(P) 2319-8346, Vol. 6, Issue. 9, September 2017, pp.1555-1566. UGC Enlisted Sl. No. 47721
- 27.** V.N. Mishra, S.K. Paikray, P. Palo, P.N. Samanta, M. Misra & U.K. Misra: "On double absolute factorable matrix summability", *Tbilisi Mathematical Journal*, ISSN 1512-0139, Vol. 10, Issue. 4, August 2017, pp.29-44. ESCI (Web of Science)
- 28.** S.K Indrajitsingha, P.N. Samanta and U.K. Misra, A production fuzzy inventory model for deteriorating items defuzzified by graded mean integration representation method, *J. of Ultra Scientists of Physical Sciences*, ISSN 2231-346X, Vol. 29, Issue 9, 2017, pp.388-400, <http://dx.doi.org/10.22147/jusps-A/290905>, UGC Enlisted Sl. No. 47046
- 29.** S.K Indrajitsingha, P.N. Samanta and U.K. Misra, Inventory optimization by fuzzy logic for a production of single item without shortages, *Bull. Of Pure & Appl. Sciences, (Math & Stat)*, ISSN(P)

0970-6577, ISSN(O) 2320-3226, Vol. 36E, Issue 1, June 2017, pp.16-30, DOI 10.5958/2320-3226.2017.00002.9, UGC Enlisted Sl. No. 9585

30. P.N. Samanta, J.P. Das & S.K. Indrajitsingha: "Fuzzy inventory model for two parameter weibull deteriorating items", Transactions on Mathematics, ISSN 2455-1856, Vol. 3, Issue. 2, April 2017, pp.27-36.

31. P. Palo, B.P Padhy, P.N Samanta, M.Misra and U.K. Misra: Indexed absolute Reisz summability factor using delta quasi monotone sequence, J. of Progressive Research in Mathematics(JPRM), ISSN 2395-0218, Vol-10,Issue-2(2016),pp.1460-1469.

32. P.N Samanta : "Indexed Absolute Banach Summability of a Fourier Series", Int. J. of Modern Sc. and Eng. Tech.(IJMSET),ISSN 2349-3755,Vol-3,Issue-10(2016),pp.1-7

33. A.K. Sahoo, P.N. Samanta, S.K Indrajitsingha, & U.K. Misra:"Fuzzy inventory model with time dependent demand rate and without shortages using pentagonal fuzzy number", J. of Global Economics, Management and Business Research(UK), ISSN 2454-2504, Vol-7, No.4 (2016), pp. 313-318.

34. P. Raula, S.K. Indrajitsingha, P.N. Samanta and U.K. Misra : A Fuzzy Inventory Model for constant deteriorating items by using GMIR method in which inventory parameters treated as HFN, Open Journal of Applied and Theoretical Mathematics (OJATM), ISSN 2455-7102, Vol-2, No-1 (2016), pp. 13-20.

35. B.P Padhy, P.K. Das, M.Misra, P. Samanta and U.K Misra: "Trigonometric Approximation of the conjugate series of a function of generalized Lipchitz class by product summability", Advances in Intelligent Systems and Computing (Springer), ISSN 2194-5357, Vol. 1, (2016), pp. 181-190, doi:10.1007/978-81-322-2734-2-19, UGC Enlisted Sl. No. 49365

36. S.K Indrajitsingha, P.N. Samanta & U.K. Misra : "Fuzzy inventory model with shortages under fully backlogged using signed distance method", Int. J. for Research in Appl. Sc. & Engg. Technology, ISSN 2321-9653, Vol-4, No.1,(2016), pp. 197-203. UGC Enlisted Sl. No. 45842

37. S.R. Perla, K.M. Nagaraj, S. Padmanabhan and P.N. Samanta: "Schur convexity condition for novel ratio of difference of means", Int. J. of Scientific and Innovative Mathematical Research, ISSN 2347-307X (P), ISSN 2347-3142 (Online), Vol-4, No.4(2016), pp. 13-18, DOI: <http://dx.doi.org/10.20431/2347-3142.0404002>, UGC Enlisted Sl. No.62822

38. S.K. Indrajit Singha, P.N. Samanta and U.K. Misra : "An Economic Production Quantity Model with Time Dependent Demand under Fuzzy environment", Int. J. of Modern Sc. and Eng. Tech.(IJMSET),ISSN 2349-3755,Vol-2,Issue-12(2015),pp.1-8

39. Sahu, R.C., P. N. Samanta & Behera, B.: "A Comparative Study between Einstein's Theory and Rosen's Bimetric Theory through perfect fluid Cosmological Model", International Journal of Advanced Research in Physical Science(IJARPS),ISSN 2349-7874(Print) & ISSN 2349- 7882(Online),Vol-2,Issie-5(May 2015),pp. 24-29 (Impact Factor-2.228).

- 40.** Siva Kota Reddy, P., P. N. Samanta & Permi, K.S.: “On Signed Graphs whose Two Path Signed Graphs are Switching Equivalent to their Jump Signed Graphs”, *International J. Math. Combin.*, Vol.-1(2015), pp.71-79. UGC Enlisted Sl. No. 64647
- 41.** Prashanth, B., P. N. Samanta & Vijay, S.: “Domination number of Antipodal Graph and Antipodal Middle graph”, *International Journal of Modern Sciences and Engineering Technology* (ISSN: 2349 – 3755), Vol.2, Issue.2(2015), pp. 60 -63, (Impact Factor-3.094).
- 42.** B.P Padhy, P.K. Palo, P.N. Samanta, M.Misra and U.K Misra: “Trigonometric Approximation of the conjugate series of a function of generalized Lipchitz class by product means”, *J. of the Orissa Math. Soc.*, (ISSN 0975-2323), Vol. 33(4)(2014) , pp. 124-132.
- 43.** Misra, M., Majhi, B., Padhy, B.P., Samanta, P.N., & Misra, U.K. .: “Approximation of the Fourier series of a function of the class $W(L(t))_{p, \xi}$ by product means”, *New Trends in Mathematical Sciences*, (ISSN: 2147-5520) Vol.2, No.3(2014), 190-198. UGC Enlisted Sl. No.48657
- 44.** Misra, M., Padhy, B.P., Palo, P., Samanta, P.N., & Misra, U.K. .: “Approximation of the Fourier series of a function of Lipchitz class by product means”, *Journal of Advances in Mathematics*, (ISSN: 2347- 1921) (impact factor 1.296), Vol.9, No.4(2014), 2475-2484.
- 45.** Misra, M., Majhi, B. Padhy, B.P., Samanta, P.N., & Misra, U.K. (2014): “Approximation of conjugate series of the Fourier series of a function of the class $W(L(t))_{p, \xi}$ by product mean”, *American Journal of Applied Mathematics and statistics(USA)*, ISSN 2328-7306, Vol.2, No.5(2014), pp 352-356, doi:10.12691/ajams-2-5-9. UGC Enlisted Sl. No. 62794
- 46.** Misra, M., Das, P.K., Padhy, B.P., Samanta, P.N., & Misra, U.K., “Degree of Approximation of the Fourier series of a function of Lipchitz class by product mean”, *Frontiers of Mathematics and its Applications*, Sciknow Publication Ltd.(New York, USA) ,Vol-1, No.3 (2014), pp. 52 -58, doi:10.12966/fmia.06.01.2015.
- 47.** Siva Kota Reddy, P., Misra, U.K., & Samanta, P.N. : “The minimal equitable dominating signed graphs.” *Scientia Magna*, China, ISSN 1556-6706, Vol-9, No-4(2013), pp.64-70.
- 48.** Misra, U.K., Misra, M. & Samanta, P.N., “The Double Entire Sequences”, *Journal of Analysis and Computation* ,ISSN No. 0973-2861,.(2011)India. UGC Enlisted Sl. No. 26412
- 49.** Misra, U.K., Subramanian, N., Misra, M. & Samanta, P.N. : “The Semi normed Space defined by Orlicz Space of Entire Sequence”, *International Journal of Research and Reviews in Applied Sciences* ,VolIII, Issue-3 (2011), ISSN 2076-734 X EISSN 2076-7366, pp. 277-286, Pakistan.
- 50.** Misra, U.K., Misra, M. & Samanta, P.N.: “ $| \cdot |_{\alpha, \delta} | N, P_n$ Summability of an Infinite Series”, *Journal of Computer and Mathematical Science.*(An International Research Journal) ISSN-0976-5727, Bhopal(India). ,Vol-III, (2011), ISSN 2229-5216.pp. 123-128. UGC Enlisted Sl. No. 48179.
- 51.** Misra, U.K., Misra, M., & Samanta, P.N.: “A Note on $|N, P_n|$ Summability Factors”, *Reflection des ERA-JMS*, Vol-V, Issue-3 (2010), ISSN 0973-4597, pp. 193-200 India.

52. Misra, U.K., Misra, M., Subramanian, N., & Samanta, P.N. : "A Study on a Subset of Absolutely Convergent Sequence Space ", International Journal of Contemporary Mathematical Sciences,, VollIV, No. 21-24 (2009), ISSN 1312-7586, Bulgeria.

53. K.N. Prakash, P.N. Samanta, N. Misra (2021), Randic type lodge index of specific Graphs, Indian J. of natural Sciences ISSN 0976-0997, vol-12,issue-67, pp.32512-32515, **web of Science**

(c) Conferences:

National Conferences:

1. 45th Annual Conference of Odisha Mathematical Society & National Seminar on Computational Engineering organized by Parala Maharaja Engineering College at Sitalapalli, Berhampur during 3rd & 4th February 2018.

2. National conference on popularization of science and its communication, Swasti Palam Resort, Gopalpur, 16-17, September 2005.

3. National conference on Mathematical Analysis and its Applications (NCMAA_2007), Berhampur University, 03-04, Nov. 2007.

4. National conference on Recent Trend in Mathematical Analysis and Applications, Berhampur University, 22-23, Dec. 2010.

5. National conference on Applied and Engineering Mathematics, RNS Institute of Technology, Bengaluru, July 28-30, 2011.

6. 77th Annual Conference of the Indian Mathematical Society, SRTM University, Nanded, Maharashtra, Dec. 27-30, 2011.

7. 39th Annual Conference of OMS and National Seminar on Cryptography, Vivekananda Institute of Technology, Bhubaneswar, Feb. 04-05, 2012.

8. National conference on Analysis and Applications of Mathematics, Reva Institute of Technology and Management, Bangalore, Karnataka, Feb 22-23, 2013.

9. National conference on Panchayatraj Institution and Rural Management, KIT Berhampur, March 05-06, 2014.

10. National Seminar on Advanced Analysis & Applications, Chikiti Mahavidyalaya, Chikiti, Odisha, Sept. 20- 21, 2014.

11. National Seminar on Advances in Mathematical Analysis & its Applications, NIST, Berhampur, Odisha

12. 17th Odisha Bigyan Congress, ITER, Bhubaneswar, Dec. 05-06, 2014.

13. 43rd Annual Conference of Odisha Mathematical Society & National Seminar on “Application of Computational Techniques to”

International Conferences:

1. 2nd International Conference on Global Advancement of Mathematics-2019, Acharya Institute of Graduate Studies, Bengaluru, Karnataka, June 25-26, 2019. Session Chair.

2. 2nd International Conference on Global Advancement of Mathematics-2019, Acharya Institute of Graduate Studies, Bengaluru, Karnataka, June 25-26, 2019. Invited talk.

3. International conference on Analysis and Applications, Dept. of Mathematics, Berhampur University, July 20-21, 2012.

4. 26th International conference of Jang Jeon Mathematical Society, South Korea, Aug 01-04, 2013.

5. International conference on Industrial Mathematics & Scientific Computing, 44th Annual Conference of OMS, KIIT University, Bhubaneswar, Jan 04-05, 2014.

6. International conference on Innovative Applications of Chemistry in Pharmacology and Technology, Berhampur University, Feb. 06-08, 2015.

7. International conference on Cross Cultural Dimensions in the era of globalization, Dept. of Business Administration, Berhampur University, 24-25 Nov., 2016.

8. Int. Conference on Discrete Mathematics 2016 & Graph Theory Day-XII, Dept. of Mathematics, Siddhaganga Institute of Technology, Tunkuru, Karnataka, June 09-11, 2016.

(d) Reference Courses: Completed **four** no. of Refresher courses and **two** orientation programs.

Research Guidance: Awarded Ph.D. Degree-8, under progress-1, M.Phil. guided-8

Sl.no	Name of the candidate(s)	Title of the thesis	Ph.D. Degree Award Date
1	Susanta Kumar Indrajitsingha	Some Aspects on Fuzzy Inventory management systems	06.07.2018
2	Prafulla Kumar Das	On Research development of Summability methods and some of its Applications of Fourier series	18.08.2018
3	Prafulla Kumar Palo	Theory and Application on recent Development of Summability methods	22.09.2018

4	Bhairaba Kumar Majhi	Some Aspects on research development of Summability theory and its application to Fourier series	28.02.2020
5	Ramachandra Padhy	On recent trends of Summability methods and some of its Applications	22.01.2021
6	Ajit Kumar Sahoo	EOQ Models for Deteriorating items under Fuzzy Environment	27.10.2021
7	Balaji Padhy	An Elucidative study of Inventory models under Fuzzy Invironment	10.12.2021
8	Padmini Raula	Applications of Fuzzy Methods in Inventory models for Deteriorating items	14.10.2022

1. Susanta kumar Sahu, Title:- A Pragmatic Study On Inventory Models Of Deteriorating Items In Fuzzy Approach, Ph.D Continuing.

Project (On-going/Completed): Nil

Courses Taught: TOPOLOGY, GRAPH THEORY, ADVANCED CALCULUS, STATISTICS

Honors and Awards:

Any other Information:

(a)Administration:

- Asst. Superintendent of Hostel, Co-Ordinator Of Mess Boys Hostels, Superintendent of Hostel

Nodal Officer, AISHE Cell, Berhampur University, Berhampur

- Member of Election Committee, Discipline Committee, Resource person DEC, Associate Advisor, Asst. Super-in-tendent of Hostel, NAAC Steering Committee, Board of Studies of Berhampur University.

- Zonal Co-Ordinator, Odisha Mathematical Olympiad 2021.

- Organizing Joint Secretary, 30th Inter University Central Zone Youth Festival.

(b) Organizing of Academic Programme:

- UGC sponsored International Conference on “Analysis and Applications”, July 20th -21st, 2012.

- OHEPEE Sponsored International Conference on Advanced Mathematical Analysis and Its Applications, February 4th -5th, 2020

(c) Editorial Board Member:

- LogForum, Poland
- Review of American Mathematical Society
- Int. J. of Mathematics Trends and Technology.

(d) Professional membership

- Life Member of Indian Mathematical Society.
- Life Member of Odisha Mathematical Society
- Corporate member of Inst. Of Engg. & Technology, Kolkata
- Life member of Alumni of Berhampur University.