

# CURRICULUM VITAE

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- **Name** : ABSOS ALI SHAIKH
- **Designation** : Professor
- **Mailing address** : Department of Mathematics, University of Burdwan, Burdwan-713104, West Bengal, India.
- **E-mail address** : [aask2003@yahoo.co.in](mailto:aask2003@yahoo.co.in), aashaikh@math.buruniv.ac.in
- **Highest qualifications** : Ph.D.
- **SET/NET** qualifying year : 2001
- **Fellowship received** : **National Scholarship**, University Research Fellowship, UGC Visiting Fellowship, Research Fellowship from Chuo University, Tokyo, Japan.
- **Publications** (Details are given in *Annexure-I*)
  - (i) **Research Papers** : Published + Accepted - 108
  - (ii) **Proceedings Publications** : 03
  - (iii) **Research Monograph** :
  - (iv) **Book Chapters** :
  - (v) **Books** : 04
  - (vi) **DDE study materials** : 08
- **Research Project** : (Details are given in *Annexure-I*)  
**Completed** – 02
- **Research Guidance** : (Details are given in *Annexure-I*)
  - M.Phil. : 01
  - Ph. D. : 07
  - Thesis submission : 01
  - Working : 04
- **Field of Specialisation** : Complex Analysis, Differential Geometry, Relativity and Cosmology
- **Topic of Doctoral Dissertation** : Differential Geometry
- **Field of Research interest** : Geometry, Relativity and Cosmology
- **Research Experiences** : since 1996
- **Reviewing of research paper** : 100 articles from more than 30 National and International journals.
- **Reviewing of Research Project Proposal** : From UGC

- **Teaching Experience : 17years**

<b>Institution/Organisation</b>	<b>Designation</b>	<b>Duration</b>
Raiganj Polytechnic	Lecturer	03.06.1999-30.09.2002
North Bengal University	Lecturer	01.10.2002-14.03.2005
Burdwan University	Reader	15.03.2005-14.03.2008
Burdwan University	Associate Professor	15.03.2008-12.03.2013
Gour Banga University	Professor	13.03.2013-03.09.2013
Burdwan University	Professor	04.09.2013-Till now

**The details of the following are given in *Annexure-II*.**

- **Invited lectures or presentations for conferences/ symposia/Workshops**

(a) **International Level : 22**

(b) **National Level : 31**

- **Participation and Presentation of research papers in Conferences**

**M. International Conference : 11**

(b) **National Conference : 10**

❖ **Training Courses : 01**

❖ **Workshop Participation : 03**

❖ **Symposium/Conference Participation & Organisation : 06**

- **Additional Information : (Details are given in *Annexure-III*)**

### **Declaration**

*I hereby declare that the information given above is true to the best of my knowledge and belief.*

Date :

Signature

## Annexure-I

### A. List of Published Papers and Papers Accepted for Publication

**National: 14, International: 98, International Conference Proceedings: 3**

1. U. C. De and **Absos Ali Shaikh** : On quasi-conformally recurrent manifolds, Istanbul Univ. Fen. Fak. Mat. Dergisi, **Vol.55-56**, (1996-1997), 213-220, **Istanbul, Turkey**, (ISSN 1300-0713), [MR1767546 \(2001c:53053\)](#).
2. U. C. De and **Absos Ali Shaikh** : K-contact and Sasakian manifolds with conservative quasi-conformal curvature tensor, Bull. Cal. Math. Soc., **Vol.89**, (1997), 349-354, **India**, (ISSN 0008-0659), [MR1628637](#).
3. U. C. De and **Absos Ali Shaikh** : Sasakian manifolds with C-Bochner curvature tensor, Indian J. of Math., **Vol.41**, No.2, (1999), 131-137, **India**, (ISSN 0019-5324), [MR1734642 \(2001a:53067\)](#).
4. U. C. De and **Absos Ali Shaikh** : Non-existence of proper semi-invariant submanifolds of a Lorentzian para-Sasakian manifold, Bull. Malaysian Math. Soc. (Second Series), **Vol.22**, (1999), 179-183, **Malaysia**, (ISSN: **0126-6705**), [MR1787649 \(2001g:53124\)](#), (Impact Factor- 0.779).
5. **A. A. Shaikh** and U. C. De : On a type of contact metric manifolds, Bull. Cal. Math. Soc., **Vol.91(6)**, (1999), 487-492, **India**, (ISSN 0008-0659), [MR1766880 \(2001d:53088\)](#).
6. Ion Mihai, U. C. De and **Absos Ali Shaikh** : On Lorentzian para-Sasakian manifolds, Korean J. Math. Sciences, **Vol.6**, (1999), 1-13, **South Korea**, (ISSN 0304 - 9914).
7. U. C. De, K. Matsumoto and **Absos Ali Shaikh** : On Lorentzian para-Sasakian manifolds, Rendiconti del seminario Matematico di Messina Serie II, Supplemento al n., **Vol.3**, (1999), 149-158, **Italy**.
8. **A. A. Shaikh** and U. C. De: On 3-dimensional LP-Sasakian manifolds, Soochow J. of Math., **Vol.26**, No.4, (2000), 359-368, **Taiwan**, (ISSN 0250-3255), [MR1807429 \(2001k:53078\)](#).
9. U. C. De, T. Q. Binh and **A. A. Shaikh** : On weakly symmetric and weakly Ricci-symmetric K-contact manifolds, Acta Mathematica Academiae Paedagogicae Nyiregyhaziensis, **Vol.16**, (2000), 65-71, **Hungary**, (ISSN 1786-0091), [MR1796261 \(2001i:53042\)](#).
10. **Absos Ali Shaikh**, U. C. De and T. Q. Binh : On K-contact  $\eta$ -Einstein manifolds, Steps in Differential Geom., Proc. of the Colloquium on Differential Geom., **25-30 July**, (2000), 311-315, **Debrecen, Hungary**, [MR1859310 \(2002g:53134\)](#).
11. U. C. De, G. Pathak and **Absos Ali Shaikh** : On partially pseudosymmetric contact metric manifold, The Aligarh Bull. of Math., **Vol.20**, No.2, (2001), 75-83, **India**, (ISSN 0304-9787), [MR1926344 \(2003f:53143\)](#).
12. **Absos Ali Shaikh**, U. C. De : On 3-dimensional Sasakian manifolds, God. Univ. Arkhit. Stroit. Geod. Sofia Svit'ed prime K II Mat., **Vol.40**, (1998/99), 173-181 (2002), **Bulgaria**, (ISSN 1310-814X), [MR1912161 \(2003d:53067\)](#).
13. U. C. De, **Absos Ali Shaikh** and A. Sengupta : On LP-Sasakian manifolds with a coefficient  $\alpha$ , Kyungpook Math. J., **Vol.42**, (2002), 177-186, **South Korea**, (ISSN 1225-6951), [MR1915918 \(2003c:53056\)](#).
14. U. C. De, J. B. Jun and **Absos Ali Shaikh** : On conformally flat LP-Sasakian manifolds with a coefficient  $\alpha$ , Nihonkai Math. J., **Vol.13**, (2002), 121-131, **Japan**, (ISSN 1341-9951), [MR1947929 \(2003i:53059\)](#).
15. **Absos Ali Shaikh** : On Lorentzian almost paracontact manifolds with a structure of the concircular type, Kyungpook Math. J., **Vol.43**, (2003), 305-314, **South Korea**, (ISSN 1225-6951), [MR1983436 \(2004b:53039\)](#).
16. **A. A. Shaikh** and Sudipta Biswas : On M-projectively recurrent Sasakian manifolds, South East Asian J. of Math. and Math. Sci., **Vol.2**, No.1, (2003), 61-65, **India**, (ISSN 0972-7752), [MR2052680](#).
17. U. C. De, **A. A. Shaikh** and Sudipta Biswas : On  $\phi$ -recurrent Sasakian manifolds, Novi Sad J. of Math., **Vol.33**, No.2, (2003), 43-48, **Yugoslavia**, (ISSN 1450-5444), [MR2046161 \(2004k:53061\)](#), (Impact Factor- 1).
18. U. C. De, **A. A. Shaikh** and Sudipta Biswas : On weakly symmetric contact metric manifolds, Tensor N. S., **Vol.64**, (2003), 170-175, **Japan**, (ISSN 0040-3504), [MR2064859 \(2005d:53129\)](#).
19. **A. A. Shaikh** and Kanak Kanti Baishya : On a type of contact metric manifolds, Tensor N. S., **Vol.64**, (2003), 259-265, **Japan**, (ISSN 0040-3504), [MR2080338 \(2005f:53139\)](#).
20. **A. A. Shaikh** and Sudipta Biswas : On LP-Sasakian manifolds, Bull. Malaysian Math. Soc. (Second Series), **Vol.27**, (2004), 17-26, **Malaysia**, (ISSN 0126-6705), [MR2075163 \(2005c:53051\)](#), (Impact Factor- 0.779).
21. U. C. De, **A. A. Shaikh** and Sudipta Biswas : Contact manifolds isometrically immersed in a manifold of constant curvature, Bull. Cal. Math. Soc., **Vol. 96**, No. 5, (2004), 381-388, **India**, (ISSN 0008-0659), [MR2090101 \(2005i:53075\)](#).
22. **A. A. Shaikh** and Kanak Kanti Baishya : On concircular Structure Spacetimes, J. of Math. and Stat., **Vol.1**, (2005), 129-132, **New York, USA**, (ISSN 1549-3644), [MR2197611 \(2006j:53102\)](#).
23. U. C. De, Adnan Al-Aqeel and **Absos Ali Shaikh** : Submanifolds of a Lorentzian para-Sasakian manifold, Bulletin of Malaysian Math. Soc., **Vol.28(2)**, (2005), 223-227, **Malaysia**, (ISSN 0126-6705), [MR2196081 \(2006k:53087\)](#), (Impact Factor- 0.779).

24. **A. A. Shaikh** and Kanak Kanti Baishya: On weakly quasi-conformally symmetric manifolds, *Soochow J. of Math.*, **Vol.31**, (2005), 581-595, **Taiwan**, (ISSN 0250-3255), [MR2190202 \(2007a:53094\)](#).
25. **A. A. Shaikh** and Kanak Kanti Baishya : On  $\phi$ -symmetric LP-Sasakian manifolds, *Yokohama Math. J.*, **Vol.52**, (2005), 97-112, **Japan**, (ISSN 0044-0523), [MR2222156 \(2007b:53062\)](#).
26. U. C. De, Y. H. Kim and **A. A. Shaikh** : Contact metric manifolds with  $\xi$  belonging to the  $(k, \mu)$ -nullity distribution, *Indian J. of Math.*, **Vol.47**, No.2-3, (2005), 295-304, **India**, (ISSN 0019-5324), [MR2201274 \(2006j:53113\)](#).
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28. **A. A. Shaikh** and Sanjib Kumar Jana : A pseudo quasi-conformal curvature tensor on a Riemannian manifold, *South East Asian J. of Math. & Math. Sci.*, **Vol.4**, No.1, (2005), 15-20, **India**, (ISSN 0972-7752), [MR2208769 \(2006m:53027\)](#).
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31. **A. A. Shaikh** and Kanak Kanti Baishya : Some results on LP-Sasakian manifolds, *Bull. Math. Soc. Sc. Math. Roumanie Tome*, **Vol.49(97)**, No.2, (2006), 193-205, **Romania**, (ISSN 1220-3874), [MR2223315 \(2007b:53061\)](#), (Impact Factor- 0.507).
32. **A. A. Shaikh** and Sanjib Kumar Jana : On weakly cyclic Ricci symmetric manifolds, *Annales Polonici Mathematicae*, **Vol.89**, No.3, (2006), 139-146, **Poland**, (ISSN 0066-2216), [MR2262554 \(2007e:53054\)](#), (Impact Factor- 0.44).
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36. **A. A. Shaikh** and Sanjib Kumar Jana : On weakly quasi-conformally symmetric manifolds, *SUT Journal of Mathematics*, **Vol.43**, No.1, (2007), 61-83, **Japan**, (ISSN 0916-5746), [MR2417157 \(2009c:53047\)](#).
37. **A. A. Shaikh**, K. Arslan C. Murathan and Kanak Kanti Baishya : On 3-dimensional generalized  $(k, \mu)$ -contact metric manifolds, *Balkan J. of Geometry and Applications*, **Vol.12**, No.1, (2007), 122-134, **Romania**, (ISSN 1224-2780), [MR2321974 \(2008c:53081\)](#), (Impact Factor- 0.765).
38. **A. A. Shaikh**, Sanjib Kumar Jana and S. Eyasmin : On weakly  $W_2$ -symmetric manifolds, *Sarajevo J. of Mathematics*, **Vol.15(3)**, (2007), 1-19, **Bosnia and Montgomery**, (ISSN 1840-0655), [MR2327507 \(2008f:53033\)](#), (Impact Factor-1).
39. **A. A. Shaikh**, Kanak Kanti Baishya and S. Eyasmin: On  $\phi$ -recurrent generalized  $(k, \mu)$ -contact metric manifolds, *Lobachevski Journal of Mathematics*, **Vol.27**, (2007), 3-13, **Springer-Verlag, Russia**, (ISSN 1995-0802), [MR2396965 \(2009a:53139\)](#).
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41. **A. A. Shaikh**, Y. Matsuyama and Sanjib Kumar Jana: On a type of General Relativistic spacetime with  $W_2$  curvature tensor, *Indian J. of Math.*, Allahabad, **Vol.50(1)**, (2008), 53-62, **India**, (ISSN 0019-5324).
42. **A. A. Shaikh**, Kanak Kanti Baishya and S. Eyasmin: On D-homothetic deformation of trans-Sasakian structure, *Demonstratio Mathematica*, **Vol.41**, No.1, (2008), 171-188, **Poland**, (ISSN 0420-1213), [MR2394309 \(2009e:53063\)](#).
43. **A. A. Shaikh**, K. K. Baishya and S. Eyasmin: On the existence of some types of LP-Sasakian manifolds, *Commun. Korean Math. Soc.*, **Vol.23**, No.1, (2008), 1-16, **South Korea**, (ISSN 1225-1763), [MR2380233 \(2008k:53088\)](#).
44. **A. A. Shaikh** and Sanjib Kumar Jana : On pseudo generalized quasi-Einstein manifolds, *Tamkang J. of Math.*, **Vol.39**, (2008), 9-24, **Taiwan**, (ISSN 0049-2930), [MR2416176 \(2009a:53032\)](#).
45. **A. A. Shaikh**, T. Basu and S. Eyasmin : On the existence of  $\phi$ -recurrent  $(LCS)_n$ -manifolds, *Extracta Mathematicae*, **Vol.23**, No.1, (2008), 71-83, **Spain**, (ISSN 0213-8743), [MR2449997 \(2009f:53041\)](#), (Impact Factor- 1).
46. **A. A. Shaikh**, Y. Matsuyama, Sanjib Kumar Jana and S. Eyasmin: On the existence of weakly Ricci symmetric manifolds admitting semi-symmetric metric connection, *Tensor N. S.*, **Vol.70**, No.1, (2008), 95-106, **Japan**, (ISSN 0040-3504), [MR2510179 \(2010c:53022\)](#).

47. **A. A. Shaikh**, Sanjib Kumar Jana and S. Eyasmin: On weakly pseudo quasi-conformally symmetric manifolds, *Indian Journal of Math.*, **Vol. 50**, No.3, (2008), 505-518, **India**, (ISSN 0019-5324), [MR2483698 \(2010c:53069\)](#).
48. **A. A. Shaikh**, M. Hasan Shahid and Shyamal Kumar Hui : On weakly conformally symmetric manifolds, *Mathematiki Vesnik*, **Vol.60**, (2008), 269-284, **Serbia**, (ISSN 0025-5165), [MR2465809 \(2009k:53102\)](#).
49. **A. A. Shaikh** and Shyamal Kumar Hui: On weakly conharmonically symmetric manifolds, *Tensor N. S.*, **Vol.70**, No.2, (2008), 119-134, **Japan**, (ISSN 0040-3504), [MR2546909 \(2010f:53071\)](#).
50. **A. A. Shaikh** and Shyamal Kumar Hui: On decomposable weakly conharmonically symmetric manifolds, *Lobachevski Journal of Mathematics*, **Vol.29**, No.4, (2008), 206-215, **Springer-Verlag, Russia**, (ISSN 1995-0802), [MR2461622 \(2009k:53101\)](#).
51. **A. A. Shaikh** and T. Q. Binh: On some class of Riemannian manifolds, *Bull. Transilvania Univ., Brasov* **No.15(50)**, III, (2008), 351-362, **Romania**, (ISSN 2065-2151), [MR2478038 \(2009k:53100\)](#).
52. **A. A. Shaikh**, J. Choi and S. K. Jana: On conformally flat weakly cyclic Ricci symmetric manifolds, *Tensor N. S.*, **Vol.70**, No.3, (2008), 241-254, **Japan**, (ISSN 0040-3504), [MR2640817 \(2011f:53058\)](#).
53. **A. A. Shaikh** and Y. Matsuyama : On trans-Sasakian manifolds, *SUT J. of Math.*, **Vol.45**, No.1, (2009), 25-41, **Japan**, (ISSN 0916-5746), [MR2554873 \(2010i:53048\)](#).
54. **A. A. Shaikh** and Shyamal Kumar Hui: On weakly concircular symmetric manifolds, *Scientific Annals of Al. I. Cuza, Tomul*, **LV**, (2009) f.1, 167-186, **Romania**, (ISSN 1221-8421), [MR2510720 \(2010a:53029\)](#), (Impact Factor- 0.250).
55. **A. A. Shaikh** : Some results on  $(LCS)_n$ -manifolds, *Journal of Korean Math. Soc.*, **Vol.46**, No.3, (2009), 449-461, **South Korea**, (ISSN 0304-9914), [MR2515129 \(2010b:53129\)](#), (Impact Factor- 0.223).
56. **A. A. Shaikh**, T. Basu and Kanak Kanti Baishya: On the existence of locally  $\phi$ -recurrent LP-Sasakian manifolds, *Bulletin of Allahabad Math. Soc.*, **Vol.24**, Part2, (2009), 281-295, **India**, (ISSN 0971-0493), [MR2597623 \(2011c:53050\)](#).
57. **A. A. Shaikh** and Shyamal Kumar Hui: On pseudo cyclic Ricci symmetric manifolds, *Asian-European J. of Math.*, **Vol.2**, No.2, (2009), 227-237, **World. Sci. Publi., Singapore**, (ISSN 1793-5571), [MR2532701 \(2010f:53072\)](#), (Impact Factor- 1).
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60. **A. A. Shaikh** and Shyamal Kumar Hui: On some classes of generalized quasi-Einstein manifolds, *Comm. Korean Math. Soc.*, **Vol.24**, (2009), 415-424, **South Korea**, (ISSN 1225-1763), [MR2543386 \(2010f:53073\)](#).
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65. Shyamal Kumar Hui, Y. Matsuyama and **A. A. Shaikh**: On decomposable weakly conformally symmetric manifolds, *Acta Mathematica Hungarica*, **Vol.128(1-2)**, (2010), 82-95, **Springer-Verlag, Hungary**, (ISSN 0236-5294), [MR2665800 \(2011f:53048\)](#), (Impact Factor- 0.521).
66. **A. A. Shaikh** and C. S. Bagewadi: On  $N(k)$ -contact metric manifolds, *Cubo Math. J.*, **Vol.12**, No.1, (2010), 183-195, **Brazil**, (ISSN 0716-7776), [MR2730595 \(2011j:53157\)](#).
67. **A. A. Shaikh** and Ananta Patra : On a generalized class of recurrent manifolds, *Archivum Mathematicum*, **Vol.46**, (2010), 71-78, **Czechoslovakia**, (ISSN 0044-8753), [MR2644455 \(2011g:53025\)](#), (Impact Factor- 2).
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75. **A. A. Shaikh** and Shyamal Kumar Hui : On generalized  $\phi$ -recurrent (LCS) $n$ -manifolds, **American Institute of Physics Conf. Proc., Vol.1309, (2010)**, 419-429. ICMS Int. Conf. on Math. Sci.: doi:10.1063/1.3525143, **(ISSN 0094-243X)**.
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88. **A. A. Shaikh** and Ananta Patra: On generalized pseudo quasi-Einstein manifolds, J. of Progressive Science, **Vol.2, No.2, (2011)**, 147-159, **India, (ISSN 0976-4933)**.
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92. **A. A. Shaikh** and Helaluddin Ahmad: On a type of 3-dimensional trans-Sasakian manifolds, Tensor N. S., **Vol.73, No.2, (2011)**, 108-117, **Japan, (ISSN 0040-3504), MR3051881**.
93. **A. A. Shaikh** and Haradhan Kundu : On weakly symmetric and weakly Ricci symmetric warped product manifolds, Publi. Math. Debrecen, **Vol.81, No.3-4, (2012)**, 487-505, **Hungary, (ISSN 0033-3883), (Impact Factor- 0.521), MR2989825**.
94. **A. A. Shaikh** and S. K. Jana : On Quasi-Einstein Spacetime with Space-Matter Tensor, Lobachevskii Journal of Mathematics, **Vol.33, No.3, (2012)**, 255-261, **Russia, (ISSN 1995-0802), MR2969314**.

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96. **Absos Ali Shaikh1**, Falleh R Al-Solamy and Indranil Roy: On the existence of a new class of semi-Riemannian manifolds, *Mathematical Sciences*, **Vol.7:46**, (2013), 1-13, **Springer, Heidelberg, Germany**, (ISSN 2251-7456).
97. **A. A. Shaikh**, Falleh R. Al-Solamy and Helaluddin Ahmad: Some transformations on Kenmotsu manifolds, *SUT J. Math*, **Vol. 49, No.2** (2013), 109-119, **Japan**, (ISSN 0916-5746), **MR3222503**.
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99. **A. A. Shaikh** and Shyamal Kumar Hui: On  $\phi$ -symmetric generalized Sasakian space forms admitting semisymmetric metric connection, *Tensor N. S.*, **Vol.74**, (2013), 265-274, **Japan**, (ISSN 0040-3504), **MR3362908**.
100. **A. A. Shaikh** and Haradhan Kundu : On equivalency of various geometric structures, *J. Geom.*, **Vol.105**, (2014), 139-165, **Birkhäuser Basel, Switzerland**, (ISSN 0047-2468), **MR3176344**.
101. Ryszard Deszcz, Marian Hotłoś, Jan Jełowicki, Haradhan Kundu and **A. A. Shaikh**: Curvature properties of Gödel metric, *Int. J. Geom. Methods Modern Phys.*, **Vol.11, No.3** (2014), 1450025(20 pages), **World Scientific Publishing Company, Italy**, (ISSN 0219-8878), (**Impact Factor- 0.951**), **MR3189757**.
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103. Y. Matsuyama, **A. A. Shaikh**, M. H. Shahid, M. Jamali: Complete submanifolds of space forms and application of Bochner formula, *J. Adv. Math. Stud.*, **8(2)** (2015), 197–205 (ISSN 2065-3506), **MR3408407**.
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105. **A. A. Shaikh**, Ryszard Deszcz, Marian Hotłoś, Jan Jełowicki, Haradhan Kundu : On pseudosymmetric manifolds, *Publi. Math. Debrecen*, **Vol.86, No.3-4** (2015), 433-456, **Hungary**, (ISSN 0033-3883), (**Impact Factor- 0.521**).
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107. **A. A. Shaikh** and Haradhan Kundu : On warped product generalized Roter type manifolds, *Balkan J. Geom. Appl.*, **Vol.21, No.2**, (2016), 82-95, **Romania**, (ISSN 1224-2780), (**Impact Factor- 0.765**).
108. **A. A. Shaikh** and Shyamal Kumar Hui, On  $\phi$ -symmetric LP-Sasakian manifolds admitting semi-symmetric metric connection. *Novi Sad J. Math.*, **Vol.46, No.1**, (2016), 63-78, **Yugoslavia**, (ISSN 1450-5444).
109. **A. A. Shaikh**, Yoshio Matsuyama, Shyamal Kumar Hui, On invariant submanifolds of  $(LCS)_n$ -manifolds. *J. Egyptian Math. Soc.*, **Vol.24, No.2**, (2016), 263-269, **Egypt**, (ISSN 1110-256X), **Elsevier Science**, **MR3488908**.
110. R. Deszcz, A. H. Hasmani, V. G. Khambholja and **A. A. Shaikh**, Curvature properties of interior black hole metric, **arXiv:1401.6256v1** [math.DG] 24 Jan 2014.
111. **A. A. Shaikh** and Haradhan Kundu : On generalized Roter type manifolds, **arXiv:1411.0841v1** [math.DG], 4 Nov 2014.
112. **A. A. Shaikh**, Indranil Roy and Haradhan Kundu, On the existence of the generalized classes of recurrent manifolds, **arXiv:1504.0253v1** [math.DG], 10 Apr 2014.
113. **A. A. Shaikh**, Indranil Roy and Haradhan Kundu: On some generalized recurrent manifolds, to appear in *Bull. Iranian Math. Soc, Iran*, (ISSN- 1735-8515) (**Impact Factor- 0.283**).
114. **A. A. Shaikh**, Haradhan Kundu and M. S. Ali: On warped product super generalized recurrent manifolds, To appear in *Ann. Alexandru Ioan Cuza Univ, Romanian*, (ISSN 1221-8421), (**Impact Factor- 0.221**).

115. **A. A. Shaikh** and Yoshio Matsuyama: Curvature properties of some 4-dimensional semi-Riemannian metrics,  
To appear in Kragujevac J. Math, Serbia, (ISSN 2406-3045), (Impact Factor- 1.05).

## **B. Publication of Books:**

1. **Tensor Calculus, 2<sup>nd</sup> Edition**, Narosa Publishing House Pvt. Ltd., New Delhi, 2007 & **Alpha Science International Ltd., Harrow, UK, 2007** (jointly with U. C. De and J. Sengupta) (ISBN: **978-81-7319-884-7**)
2. **Differential Geometry of Manifolds**, Narosa Publishing House Pvt. Ltd., New Delhi, 2007 & **Alpha Science International Ltd., Harrow, UK 2007** (jointly with U. C. De) (ISBN: **978-81-7319-777-2**)
3. **Complex Manifolds and Contact Manifolds**, Narosa Publishing House Pvt. Ltd., New Delhi, 2009 & **Alpha Science International Ltd., Harrow, UK, 2009** (jointly with U. C. De) (ISBN: **978-81-7319-998-1**)
4. **Vector Analysis with Applications**, Narosa Publishing House Pvt. Ltd., New Delhi, 2009 & **Alpha Science International Ltd., Harrow, UK, 2009** (jointly with S. K. Jana) (ISBN: **978-81-7319-990-5**)

## **C. Publication of Study materials:**

1. A Study material on **Topology**, Directorate of Distance Education of North Bengal University, Darjeeling, 2004.
2. A Study material on **Differentiable Manifolds**, Directorate of Distance Education of North Bengal University, Darjeeling, 2006.
3. A Study material on **Riemannian Manifolds**, Directorate of Distance Education of North Bengal University, Darjeeling, 2006.
4. A Study material on **Complex Analysis**, Directorate of Distance Education of Burdwan University, Burdwan, 2007.
5. A Study material on **Differential Geometry of curves and surfaces in  $E^3$** , Directorate of Distance Education of Burdwan University, Burdwan, 2007.
6. A Study material on **Graph Theory**, Directorate of Distance Education of Burdwan University, Burdwan, 2007.
7. A Study material on **Differential Geometry of Manifolds-I**, Directorate of Distance Education of Burdwan University, Burdwan, 2008.
8. A Study material on **Differential Geometry of Manifolds-II**, Directorate of Distance Education of Burdwan University, Burdwan, 2009.

## **D. Research Project Undertaken:**

1. Acted as the **Principal Investigator of the CSIR Major Research Project entitled "Investigation on Riemannian manifolds with Applications"** from April 01, 2009 to March, 31, 2013 (25(0171)/09/EMR-II dated 13-02-2009). Sanctioned Amount: **Rs.12.87 Lakh (approx.)**
2. Acted as the co-investigator (jointly with S. K. Jana, Balurghat College) of the UGC Minor Research Project entitled **"A Study on Quasi-Einstein manifolds"** (F.PSW-095/09-10(ERO), dated 08.10.2009). Sanctioned Amount: **Rs.1.57Lakh.**

## **E. Ph. D Students Awarded/Registered under my Supervision:**

1. Sri Sudipta Biswas awarded Doctoral Degree on 27.12.2007 from Kalyani University (jointly with U. C. De) and the title of the Thesis is "Investigation on contact manifolds".
2. Sri Kanak Kanti Baishya awarded Doctoral Degree on 08.08.2008 from Jadavpur University (jointly with T. Basu) and the title of the Thesis is "Investigation on contact metric manifolds".
3. Sri Sanjib Kumar Jana awarded Doctoral Degree on 29.06.2009 from Burdwan University and the title of the Thesis is "Investigation on certain weakly symmetric structures on a Riemannian manifold".



4. Sri Shyamal Kumar Hui awarded Doctoral degree on 17.06.2010 from Burdwan University and the title of the Thesis is “Investigation on certain structures of Riemannian manifolds”.
5. Sri Ananta Patra awarded Doctoral degree on 18.02.2013 from Burdwan University and the title of the Thesis is “Investigation on some aspects of Riemannian manifolds”.
6. Smt. Santana Basu awarded Doctoral degree on 16.01.2013 from Burdwan University (jointly with N. D. Chakraborty) and the title of the Thesis is “Vector Integration and Tensor Product”.
7. Sri Helaluddin Ahmad awarded Doctoral degree on 01.03.2016 from Burdwan University and the title of the thesis is “Investigation on some aspects of contact metric manifolds”.
8. Sri Indranil Roy has submitted the thesis on 18.08.2016 and the title of thesis is “Investigation on some generalized classes of recurrent manifolds”.
9. Sri Haradhan Kundu is waiting for the submission of the thesis and the title of thesis is “Investigation on some classes of warped product manifolds”.
10. Sri Danesh Chakraborty is registered as a part time research scholar under my supervision.
11. Sri Harekrishna Das is registered as an ICCAR fellow research scholar from Bangladesh under my supervision.
12. Sri Chandan Kumar Mondal is working as an UGC fellow research scholar under my supervision.

## **F. National and International Collaborative Research Works:**

I have the collaborative research works with the following professors:

1. **Prof. Ion Mihai, University of Bucharest, Romania.**
2. **Prof. Kadri Arslan, Department of Mathematics, Uludag University, Turkey.**
3. **Prof. Cihan Ozgur, Department of Mathematics, Balikesir University, Turkey.**
4. **Prof. Y. Matsuyama, Department of Mathematics, Chuo University, Japan.**
5. **Prof. J. B. Jun, Department of Mathematics, Kookmin University, South Korea.**
6. **Prof. Y. H. Kim, Department of Mathematics, Kyungpook National University, South Korea.**
7. **Prof. Choi Jaedong, Department of Mathematics, R.O.K. Air Force, South Korea.**
8. **Prof. L. K. Das, Department of Mathematics, Ken State University, USA.**
9. **Prof. Dae Won Yoon, Gyeongsang National University, South Korea.**
10. **Prof. Adnan Al-Aqeel, Department of Mathematics, Kuwait University.**
11. **Prof. M. Hasan, Shahid, Department of Mathematics., Jamia Milia Islamia, New Delhi.**
12. **Prof. T. Basu, Department of Mathematics, Jadavpur University.**
13. **Prof. U. C. De, Department of Pure Mathematics, Calcutta University.**
14. **Prof. C. S. Bagewadi, Kuvempu University, South Karnataka.**
15. **Prof. Koji Matsumoto, Yamagata University, Japan.**
16. **Prof. C. Murathan, Uludag University, Turkey.**
17. **Prof. T. Q. Binh, University of Debrecen, Debrecen, Hungary.**
18. **Prof. Md. Shoukat Ali, Dhaka University, Bangladesh.**
19. **Prof. Alfonso Carriazo, Department of Geometry and Topology, University of Sevilla,**

## Spain

20. Prof. Falleh Al-Solamy, King Abdullah Aziz University, Saudi Arabia.
21. Prof. Ryszard Deszcz, Wroclaw University of Environmental and Life Sciences, Poland.
22. Prof. Jan Jelowicki, Wroclaw University of Environmental and Life Sciences, Poland.
23. Prof. Marian Hotlos, Wroclaw University of Technology, Poland.
24. Prof. A. H. Hasmani, Sarder Patel University, Gujarat, India.

## G. Reviewer of Books/Referee of Research Articles from the following Publishers/Journals:

1. Bulletin of Calcutta Mathematical Society, Kolkata.
2. Symmetry and Differential Geometry, **SIGMA Publishers**, Ukraine.
3. **Tata McGraw Hill Book Publishers**, New Delhi.
4. Bulletin of **Malaysian Mathematical Society**, Malaysia.
5. Indian Journal of Mathematics, Allahabad.
6. Journal of the **Balkan Society of Geometers**, Romania.
7. **Differential Geometry-Dynamical Systems**, Romania.
8. **Journal of Physics A : Math. Theor.**, Institute of Physics, UK
9. **Kuwait Journal of Science & Engineering**, Kuwait.
10. Bulletin of Pure and Applied Mathematics, Rajasthan.
11. World Applied Sciences Journal, Iran.
12. Kyungpook Mathematical Journal, South Korea.
13. Hacettepe Journal of Mathematics and Statistics, Turkey.
14. Analele Stiintifice ale Univ. Ovidius Constanta, Ser. Matematica, Romania.
15. Journal of the International Academy of Physical Sciences, India.
16. **Publication Mathematicae Debrecen**, Hungary.
17. **Classical Quantum Gravity**, Institute of Physics, UK.
18. **Communication Korean Mathematical Society**, South Korea.
19. **The Philippine Scientist journal**, Philippine.
20. **Journal of Inequalities and Applications**, Springer-Verlag.
21. **Mathematica Moravica**, Serbia.
22. **Annales Mathematicae Silesianae**, Poland.
23. **Far East Journal of Mathematical Sciences**, India.
24. **Ganit**, Banglaedsh.
25. **Jouranal of Applied Mathematics and Physics**, Science Publication.
26. **British Journal of Mathematics and Computer Science**, Science Domain International.
27. **Mathematicki Vesnik**, Serbia
28. **Indian J. of Math.**, Indian Math. Soc.
29. **Abstract and Applied Analysis**, Hindawi Publication, USA.
30. **Tamsui Oxford Journal of Information and Mathematical Sciences**, Taiwan.
31. **Arab Journal of Mathematical Sciences**, Saudi Arabia.
32. **Annals of Alexandru Ioan Cuza University-Mathematics**, Romania.
33. **International Journal of Theoretical Physics**, Springer-Verlag.
34. **American Mathematical Society**.

## H. Administrative Experience:

1. Acted as the **Head of the Department of Science & Humanities (2 years), Raiganj Polytechnic, Govt. of West Bengal.**
2. Acted as the **in-charge (1 year) of the computer laboratory, Raiganj Polytechnic, Govt. of West Bengal.**
3. Acted as the member of the **governing body of Raiganj Polytechnic, Govt. of West Bengal.**
4. Acted as the **Teacher-in-charge of Raiganj Polytechnic, Govt. of West Bengal.**
5. Acted as conveners of various National and International conferences.
6. **Acted as the Head (2 years) of the Department of Mathematics, University of Burdwan.**
7. Acted as the **Head, Department of Mathematics, University of Gour Banga, Malda-732 103, West Bengal, India.**
8. Acting as the **Programme Coordinator of Burdwan University National Service Scheme Cell from 16<sup>th</sup> January, 2014 to till now.**
9. Acted as the **Controller of Examination, University of Burdwan from 25<sup>th</sup> June, 2014 to 15<sup>th</sup> September, 2014.**
11. Acting as the **Head of the Department of Mathematics, University of Burdwan from 22<sup>nd</sup> September, 2014.**
12. **Acted as an expert of UGC, Govt. of India, to evaluate the funding from UGC for the Major Research Project.**
13. **Acting as member of many administrative committees of University of Burdwan.**

#### **H. Scientific Visit in Abroad:**

1. I have served as a guest Professor in the Department of Mathematics, **Chuo University, Tokyo, Japan** during 10<sup>th</sup> May, 2007 to 30<sup>th</sup> May, 2007 and delivered two seminar lectures and also done some collaborative research works with Professor Y. Matsuyama, Department of Mathematics, **Chuo University, Japan**. During my visit I have also delivered a seminar lecture in the department of Mathematics, **Tokyo Science University, Tokyo, Japan** in 2007.

2. I have visited Department of Mathematics, **Kyungpook National University, South Korea** from 6<sup>th</sup> May, 2008 to 23<sup>rd</sup> May, 2008 and attended the seminars of Differential Geometry and also delivered a lecture in the department of Mathematics, **Kyungpook National University** on 9<sup>th</sup> May, 2008. During my visit I have also delivered a lecture in the department of Mathematics, **Gyeongsang National University, South Korea** on 16<sup>th</sup> May, 2008 and another lecture at the department of Mathematics, **Ulsan University, South Korea** on 19<sup>th</sup> May, 2008.
3. I have visited Department of Geometry and Mathematical Institute, **Debrecen University, Hungary** from 11<sup>th</sup> May to 25<sup>th</sup> May, 2009 for the collaborative research with Dr. T. Q. Binh, Associate Professor, Debrecen University and delivered a seminar lecture at the Mathematical Institute on 14.05.2009 and another seminar lecture at the Department of Geometry of **Debrecen University** on 15.05.2009.
4. I have visited **Wroclaw University of Technology, Poland** from 6<sup>th</sup> May, 2011 to 15<sup>th</sup> May, 2011 and delivered a seminar lecture at the Institute of Mathematics and Computer Science of Wroclaw University of Technology on 12<sup>th</sup> May, 2011.
5. I have visited Department of Mathematics, **Chuo University, Tokyo, Japan** during 15<sup>th</sup> July, 2012 to 4<sup>th</sup> August, 2012 as a **Guest Professor** for some lectures and collaborative research with Professor Y. Matsuyama.
6. I have visited Department of Mathematics, **Dhaka University, Bangladesh**, during 14-21 June, 2014 and delivered a lecture entitled “On Isoperimetric Inequalities” on 15<sup>th</sup> June, 2014.
7. I have visited Department of Mathematics, **Jahangir Nagar University, Bangladesh** and delivered a lecture entitled “From Euclidean to non-Euclidean geometries” on 16<sup>th</sup> June, 2014.
8. I have visited Department of Mathematics, **Rajshai University, Bangladesh** and delivered a lecture entitled “An Introduction to manifold” on 18<sup>th</sup> June, 2014.

9. I have visited Department of Applied Mathematics, **Rajshai University, Bangladesh** and delivered a lecture entitled “Algebra of Complex functions” on 18<sup>th</sup> June, 2014.
10. I have visited Department of Mathematics, **Khulna University, Bangladesh** and delivered a lecture entitled “Classification of singularities” on 20<sup>th</sup> June, 2014.
11. I have visited Department of Applied Mathematics, **Rajshai University, Bangladesh,** and delivered a lecture entitled “Nine point circle and its generalization” on 8<sup>th</sup> November, 2014.

*A Ashraikh*

## Annexure-II

### List of Conferences/Seminars/ Symposia Attended/ Participated and Delivered Lectures

#### 1. List of National/International Conferences/Seminars/ Symposia Attended/ Participated Only

1. National Symposium on “**Recent Trends in Mathematics and Applications**” held in the Department of Mathematics, University of Kalyani, Kalyani, during 7-8 November, 1997.
2. National Symposium on “**Recent Trends in Mathematics and Applications-II**” held in the Department of Mathematics, University of Kalyani, Kalyani, during 26-27 March, 1999.
3. The UGC sponsored National conference on “**Uncertainty: A Mathematical Approach**” organized by the Department of Mathematics, M.U.C. Women’s College, Burdwan during September 07-08, 2006.
4. The 8<sup>th</sup> Principal’s conference on “**New public management and governance**” organized by UGC-ASC, Burdwan University during 23-24, February, 2007.
5. An workshop on “**Achieving excellence in Distance Education: Problems and Prospects**” organized by the Directorate of Distance Education, The University of Burdwan in collaboration with Distance Education Council, New Delhi during 28-29 March, 2007.
6. The Seminar on “**The proposed Indo-US Nuclear Treaty: Implication & Significance**” organized by Burdwan Raj College and West Bengal College & University Teachers’ Association, Burdwan District Unit on 8<sup>th</sup> December, 2007 held at Burdwan Raj college.
7. A two day workshop on “**Learning Objects: Design, Development & Dissemination**” organized by the Directorate of Distance Education, The University of Burdwan in collaboration with Distance Education Council, New Delhi during 24-25 June, 2008.
8. Attended in the third national conference on **Uncertainty : A Mathematical Approach (UAMA - 2009)** held on 27<sup>th</sup> February, 2009 organized by **Department of Mathematics, Maharajadhiraj Uday Chand Women’s College, Burdwan.**
9. Attended two-day workshop on “**Multimedia-driven SLM**” organized by the Directorate of Distance Education, University of Burdwan, in collaboration with Distance Education Council, New Delhi during August 1-2, 2009.
10. Participated the seminar to **celebrate Birth Anniversary of Ramanujan** held on 2<sup>nd</sup> January, 2010, **organized by Calcutta Mathematical Society.**

11. Participated in the two days workshop on “ **Development of Self-Learning Materials (SLM)**” organized by **the Directorate of Distance Education, University of Burdwan** held during 6<sup>th</sup> & 7<sup>th</sup> March, 2010.
12. Participated the National seminar on “**Frontier of Mathematics and Applications**” (NSFMA - 2010) held during 27<sup>th</sup>-28<sup>th</sup> March, 2010, **organized by Calcutta Mathematical Society**.
13. Participated in the one day seminar on **the occasion of 98<sup>th</sup> Birth Anniversary of Professor M. C. Chaki organized by M. C. Chaki centre for Mathematics and Mathematical Sciences** in collaboration with **Calcutta Mathematical Society** held on Saturday, 3<sup>rd</sup> July, 2010.
14. Attended **International Congress of Mathematicians (ICM-2010)** held at Hyderabad during 19-27 August, 2010.
15. Participated and **Chaired a Technical session of the National Seminar on Mathematics & Applications (NSMA-2011)** organized by the Department of Mathematics, University of Burdwan during 24-25 February, 2011.
16. Participated the National seminar on **Analysis and its Applications (NSAA-2011)** held at **Calcutta Mathematical Society, Kolkata** during September 6-7, 2011.
17. Participated the National seminar on **Life and Works of Sir Asutosh Mookherjee** organized by **Department of Pure Mathematics, University of Calcutta, Indian Association for the Cultivation of Science, Bose Institute and Vivekananda Vijnan Mission** during 13-14 August, 2015.

### (ii) List of National Conferences/Seminars/ Symposia Attended/ Participated and Presented Papers:

1. The Conference on “**Recent Developments in Relativity and Allied Topics**” held in the Department of Mathematics, Aligarh Muslim University, Aligarh, during August 30 to September 01, 1999 and presented the paper entitled “**On Lorentzian para Sasakian manifold**”.
2. National Symposium on “**Modern Mathematics and its Applications in Science and Society**” organized by Department of Mathematics, University of Kalyani, Kalyani, during 21-22 November, 2002 and presented the paper entitled “**Contact manifolds isometrically immersed in a manifold of constant curvature**”.
3. The Annual “**Conference on Mathematics- 2003**” organized by Bharata Ganita Parisad held on 15-16 November, 2003 at the Department of Mathematics & Astronomy, Lucknow University, Lucknow and presented the paper entitled “**On LP-Sasakian Manifolds**”.
4. The National Seminar-2004 on “**Teaching and Research Developments in Mathematics and Mathematical Sciences**” held on 13-14, February, 2004 in the Department of Mathematics, University of Kalyani, Kalyani and presented the paper entitled “**On  $(k, \mu)$ -contact metric manifolds**”.
5. The National Symposium on “**Mathematics and its Applications(NSMA-2004)**” organized by the Department of Mathematics, University of Burdwan during December 21-23, 2004 and presented the paper “**On  $\phi$ -symmetric LP-Sasakian manifolds**”.
6. The National Seminar on “**Recent Developments in Mathematics and its Applications(RDMA-2005)**” organized by the Department of Mathematics, University of North Bengal and presented a paper “**On LP-Sasakian manifolds**”.
7. The **National Conference on Mathematics** organized by the **Bharata Ganita Parisad** and the Department of Mathematics and Astronomy, University of Lucknow, Lucknow during 18-19 November, 2006 and presented a paper “**On the existence of a new class of Riemannian manifolds**”.
8. The **74<sup>th</sup> Annual Conference of Indian Mathematical Society** held during 27-30 December, 2008 at the **Department of Mathematics, Allahabad University** and presented the paper entitled “**On D-homothetic deformation of trans-Sasakian structure**”.
9. The **24<sup>th</sup> Annual Conference of Banaras Hindu University Mathematical Society** held during 30-31 December, 2008 at the Department of Mathematics, Banaras Hindu University, and presented a paper “**On locally  $\phi$ -recurrent generalized  $(k, \mu)$ -contact metric manifolds**”.
10. Participated and presented a paper entitled “**On quasi-conformally recurrent manifolds with harmonic quasi-conformal curvature tensor**” in the **98<sup>th</sup> Indian Science Congress** held at SRM University, Kattankulathur, Chennai during January 3-7, 2011.

### (iii) List of International Conferences/Seminars/ Symposia Attended/ Participated and Presented Papers:

1. The fifth “**International Conference of Tensor Society on Differential Geometry and its Applications and Information Sciences and their Foundations**” held in Calcutta, India, during December 21-25, 1998 and presented the paper entitled “**On LP-Sasakian manifolds**”.

2. The International Symposium on “**Mathematics and its Applications (ISMA-2001)**” organized by Calcutta Mathematical Society, Calcutta, during 17-19 February, 2001 and presented the paper entitled “**On LP-Sasakian manifolds with a coefficient  $\alpha$** ”.
3. The International Symposium on “**Analysis, Manifolds and Mechanics**” organized by M. C. Chaki Centre for Mathematics & Mathematical Sciences, Kolkata, during 5-7 February, 2003 and presented the paper entitled “**On Contact metric manifolds with  $\xi$  belonging to the  $(k, \mu)$ -nullity distribution**”.
4. The International Symposium on “**Recent Advances in Mathematics and its Applications (ISRAMA-2003)**” organized by Calcutta Mathematical Society during December 20-22, 2003 and presented the paper “**On Lorentzian almost paracontact manifolds with a structure of the concircular type**”.
5. The International Symposium on “**Recent Advances in Mathematics and its Applications (ISRAMA-2004)**” organized by Calcutta Mathematical Society, Calcutta during December 18-20, 2004 and presented the paper “**On  $(k, \mu)$ -contact metric manifolds**”.
6. The International Symposium on **Recent Advances in Mathematics and its Applications (ISRAMA-2005)** organized by the Calcutta Mathematical Society during 17-19 December, 2005 and presented the paper “**Quarter-symmetric metric connection on a non-Sasakian manifold**”.
7. The International Symposium on **Recent Advances in Mathematical Sciences and Earth Sciences (ISRAMES-2005)** organized by the Department of Mathematics, Kalyani University during 2-4 December, 2005 and presented the paper “**On weakly quasi-conformally symmetric manifolds**”.
8. The International Symposium on “**Recent Advances in Mathematics and its Applications (ISRAMA-2006)**” organized by Calcutta Mathematical Society, Calcutta during December 16-18, 2006 and presented a paper “**On the existence of proper weakly symmetric manifolds**”.
9. The **International Symposium on Recent Advances in Mathematics and its Applications** held during 19-21, December, 2008 at Calcutta Mathematical Society and presented the paper entitled “**On locally  $\phi$ -recurrent generalized  $(k, \mu)$ -contact metric manifolds**”.
10. Attended **International conference on Number Theory, PDE and Geometry** organized by the Department of Mathematics, University of Calicut, Calicut during August 27-29, 2009 and presented the paper “**On pseudo quasi-Einstein manifolds**”.
11. The **International Conference on Recent Development in Mathematical Sciences and their Applications (ICRDMSA-2010)** held at Calcutta Mathematical Society, Kolkata during December 09-11, 2010 and presented a paper “**On a generalized class of recurrent manifolds**”.

#### (iv) List of Invited Talks in National Conferences/Seminars/ Symposia:

1. Delivered **two** special lectures on 19<sup>th</sup> & 20<sup>th</sup> October, 2005 in the **Department of P.G. Studies & Research in Mathematics, Kuvempu University, South Karnataka** on “**Symmetry of Riemann manifolds**” and “**Weak symmetry of Riemann manifolds**” respectively.
2. Delivered **two** invited seminar lectures at the **Department of Mathematics, North Bengal University** on 6<sup>th</sup> March, 2006 and 7<sup>th</sup> March, 2006 on “**Einstein manifolds**” and “**Generalization of Einstein manifolds**” respectively.
3. Delivered an invited lecture on 20<sup>th</sup> September, 2006 at the **Department of Mathematics, University of North Bengal, Darjeeling** “**On Geometry**”.
4. Delivered an invited talk on “**Riemannian manifolds**” at Department of Mathematics, **Bangalore University, Bangalore** on 16<sup>th</sup> October, 2008.
5. Delivered a series (**three**) of invited lectures “**On Riemannian Geometry**” at the Department of Mathematics, **Kuvempu University, Karnataka, India** during 8<sup>th</sup> October, 2008 to 15<sup>th</sup> October, 2008.
6. Delivered an invited talk on “**A brief History of non-Euclidean Geometry**” in the **National seminar on History and Philosophy of Science** organized by the **M. C. Chaki Centre for Mathematics and Mathematical Sciences** held at Calcutta Mathematical Society, Kolkata during 2-3 July, 2011.
7. Delivered an invited talk on “**Historical Development of non-Euclidean geometry**” on 13<sup>th</sup> July, 2011 at the **Centre for Cognitive Science, Jadavpur University**.
8. Delivered an invited talk “**On some classes of Riemannian manifolds**” in the National conference **On Recent Developments in Mathematics** organized by Department of Mathematics, Kuvempu University during 4-5 May, 2012.
9. Delivered **three** invited talks in the **Department of Mathematics, Sardar Patel University, Gujarat** on 29<sup>th</sup> December, 2011, 30<sup>th</sup> December, 2011 and 04<sup>th</sup> January, 2012, on “**Historical Development of non-Euclidean**”.

**Geometries**", "**Geometrical properties of Goedel space times**" and "**Quasi-Einstein manifolds**" respectively.

10. Delivered an invited talk entitled "**Progress of different types of Geometries: Theory and Applications**" in the Workshop organized by **UGC-ASC, University of Burdwan** on 9<sup>th</sup> September, 2013.
11. Delivered an invited talk entitled "**Development from Euclidean to non-Euclidean Geometries: Theory and Applications**" in the Refresher Course organized by **UGC-ASC, Jadavpur University** on 6<sup>th</sup> December, 2013.
12. Delivered an invited talk entitled "**Mathematical Model Spaces in Geometry**" in the Refresher Course organized by **UGC-ASC, University of Burdwan** on 12<sup>th</sup> December, 2013.
13. Delivered an invited talk entitled "**On the existence of a new class of semi-Riemannian manifolds**" in the 79<sup>th</sup> Annual Conference of the Indian Mathematical Society organized by **Rajagiri School of Engineering and Technology, Cochin, Kerala** held during December 28-31, 2013.
14. Delivered an invited talk entitled "**Euclidean and non-Euclidean Models**" in the Refresher Course on Mathematical Modeling organized by **UGC-ASC at The University of Burdwan** on 9<sup>th</sup> September, 2014.
15. Delivered an invited talk entitled "**Nine point circle and its generalization**" in the Orientation Program organized by **UGC-ASC, University of Burdwan** on 15<sup>th</sup> October, 2014.
16. Delivered an invited talk entitled "**Journey from Euclid to Riemann**" in the Orientation Program organized by **UGC-HRDC, University of Burdwan** on 19<sup>th</sup> January, 2015.
17. Delivered an invited talk entitled "**A Proof of Nine point Circle**" in the Orientation Program organized by **UGC-HRDC, University of Burdwan** on 24<sup>th</sup> February, 2015.
18. Delivered an invited talk entitled "**Butterfly Theorem**" in the Orientation Program organized by **UGC-HRDC, University of Burdwan** on 21<sup>st</sup> July, 2015.
19. Delivered an invited talk entitled "**From Euclidean Geometry to Incidence Geometry**" in the Orientation Program organized by **UGC-HRDC, University of Burdwan** on 23<sup>rd</sup> November, 2015.
20. Delivered an invited talk entitled "**From Euclidean Geometry to Incidence Geometry**" in the **National Conference on Exploring Advances in Mathematics** organized by **Department of Mathematics, University of Gour Banga** held during 16-17 December, 2015.
21. Delivered an invited talk entitled "**From Euclidean Geometry to Incidence Geometry**" in the National seminar organized by **Department of Mathematics, Shyamsundar College, Burdwan** held during December 22-23, 2015.
22. Delivered an invited talk entitled "**A survey on isoperimetric problem**" in **TIMC-BU Regional UG-Teacher Enrichment Program** held at the **Department of Mathematics, The University of Burdwan** on 18<sup>th</sup> January, 2016.
23. Delivered an invited talk entitled "**A Development from Euclidean Geometry to the Geometry on Hilbert Plane**" in the Orientation Program organized by **UGC-HRDC, University of Burdwan** on 4<sup>th</sup> March, 2016.
24. Delivered an invited talk entitled "**An Axiomatic Development from Euclidean Plane to Hilbert's Plane**" in the Orientation Programme organized by **UGC-HRDC, University of Burdwan** on 16<sup>th</sup> July, 2016.

#### (v) List of Invited Talks in International Conferences/Seminars/ Symposia:

1. Delivered an invited lecture "**On  $(k, \mu)$ -contact metric manifolds**" at the Department of Mathematics, **Tokyo Science University, Tokyo, Japan** on 26<sup>th</sup> May, 2007.
2. Delivered **two invited seminar lectures at the Department of Mathematics, Chuo University, Tokyo, Japan** on 16<sup>th</sup> May, 2007 and 20<sup>th</sup> May, 2007, on "**Weakly symmetric Riemannian manifolds**" and "**Pseudo quasi-Einstein manifolds**" respectively.
3. Delivered an invited seminar lecture at the Department of Mathematics, **Kyungpook National University, South Korea** on 9<sup>th</sup> May, 2008, on "**Concircular structures spacetimes**".
4. Delivered an invited seminar lecture at the Department of Mathematics, **Gyeongsang National University, South Korea** on 16<sup>th</sup> May, 2008, on "**Weakly Ricci symmetric manifolds**".
5. Delivered an invited seminar lecture at the Department of Mathematics, **Ulsan University, South Korea** on 19<sup>th</sup> May, 2008, on "**Weakly conformally symmetric manifolds**".
6. Delivered an invited seminar lecture "**On weakly symmetric Riemannian manifolds**" at the **Mathematical Institute of Debrecen University, Hungary** on 14<sup>th</sup> May, 2009.
7. Delivered an invited seminar lecture "**On pseudo quasi-Einstein manifolds**" at the **Department of Geometry, Debrecen University, Hungary** on 15<sup>th</sup> May, 2009.
8. Delivered an invited talk "**On quasi-Einstein spacetimes**" in the **the 22<sup>nd</sup> International conference of the Jangjeon Mathematical Society of South Korea** held at the **Adichunchanagiri Institute of Technology, Chikmagalur, Karnataka** during August 13-15, 2009.
9. Delivered an invited lecture in the **12<sup>th</sup> International conference of International Academy of Physical Sciences (CONIAPS XII) on Emerging Interfaces of Physical Sciences** held at **University of Rajasthan, Jaipur, Rajasthan** during December 22-24, 2010.
10. Delivered an invited talk "**On some classes of Riemannian manifolds**" at the **Institute of Mathematics and Computer Science of Wroclaw University of Technology, Poland** on 12<sup>th</sup> May, 2011.



11. Delivered an invited talk **“On two classes of Riemannian manifolds”** in the 14<sup>th</sup> International conference of **International Academy of Physical Sciences ((CONIAPS XIV) on Physical Sciences Interfaces with humanity** held at SVNIT, Surat, Gujrat, during December 22-24, 2011.
12. Delivered two invited talk **“On Lorentzian concircular structure manifolds”** and **“Lorentzian quasi-Einstein manifolds”** at **Chuo University, Tokyo, Japan** respectively on 17<sup>th</sup> July, 2012 to 24<sup>th</sup> July, 2012.
13. Delivered an invited talk **“On weakly symmetric and weakly Ricci symmetric warped product manifolds”** in the **International Conference on Differential Geometry, Functional Analysis and Applications** held at Department of Mathematics, Jamia Millia Islamia, New Delhi during September 8-10, 2012.
14. Delivered an invited talk at the **Department of Mathematics, Dhaka University, Jahangir Nagar University, Rajshai University, Khulna University** during 14-21 June, 2014.
15. Delivered an invited talk entitled **“Nine point circle and its generalization”** at the **Department of Applied Mathematics, Rajshahi University, Bangladesh** on 8<sup>th</sup> November, 2014.
16. Delivered an invited talk entitled **“On Equivalency of various geometric structures”** in the **International conference on Algebra, Geometry and Analysis and their Applications** held at **The Department of Mathematics, Jamia Millia Islamia, New Delhi** during November 27-29, 2014.
17. Delivered an invited talk entitled **“From Euclidean Geometry to Incidence Geometry”** in the 19<sup>th</sup> **International Conference on Mathematics of Bangladesh Mathematical Society** organized by the **Department of Mathematics and Natural Sciences, BRAC University, Dhaka** held during 18-20 December, 2015.

**(vi) List of Regional/State Level Invited Talks in the Conferences/Seminars/ Symposia:**

1. Delivered an invited seminar lecture at the **Burdwan Municipal Boys School** on **“Euclidean to non-Euclidean Geometry”** on 11<sup>th</sup> February, 2009 organized by 16<sup>th</sup> West Bengal State Science and Technology Congress.
2. Delivered an invited seminar lecture at **Krishnanagar Collegiate High School, Nadia**, on **“Historical development of elementary geometry”** on 26<sup>th</sup> August, 2011 organized by **Ganit Shiksha-Bikshan Kendra, Nadia**.
3. Delivered an invited seminar lecture at the **Dhubulia Deshbhandu High School, Nadia**, on **“Nine point circles”** on 6<sup>th</sup> January, 2013 organized by the **Nadia Mathematical Society**.
4. Delivered an invited talk entitled **“Nine point circle and its generalization”** in the State level seminar held at **Burdwan Raj College** on 2<sup>nd</sup> December, 2014 organized by the **Department of Mathematics, Burdwan Raj College**.
5. Delivered an invited lecture on **“Basic Mathematics”** at **Krishnanagar Government College, Nadia**, organized by **Nadia Mathematical society** on 14<sup>th</sup> May, 2015.
6. Delivered an invited talk entitled **“Euclidean and non-Euclidean geometries and a proof of nine point circle”** in the state level seminar on History of Mathematics held on 8<sup>th</sup> October, 2015 at **Khatra Adibasi Mahavidyalaya, Bankura**.
7. Delivered an invited talk at **Meghnad Saha College, Uttar Dinajpur**, on **“Historical development from Euclidean plane to Hilbert plane”** on 9<sup>th</sup> January, 2016.
8. Delivered an invited talk at **Krishnanagar Govt. College, Nadia**, on **“Mathematics and Nature”** on 2<sup>nd</sup> July, 2016 organized by **Nadia Mathematical society**.
9. Delivered a series of special lectures on **“Differential Geometry”** at the **Department of Mathematics, University of Gour Banga** during 25-28 June and 6-8 August, 2016.

*A Ashaikh*

**Annexure-III  
List of Additional Information:**

1. Received training on **“Introduction to Computer Applications”** conducted by Technical Teachers’ Training Institute, Calcutta, Government of India, West Bengal, India during 12.02.2001 to 16.02.2001.
2. Visited **MTTS Camp-2004** as an observer held at the Regional Institute of Education, Mysore during May 17 to June 12, 2004.
3. Acted as an **external examiner** of a **Thesis Evaluator** of Kalyani University, Kalyani, India.

4. Acted as an **expert of the Selection Committee** of the **Research Scholar Selection** in Mathematics of Kalyani University, Kalyani, India.
5. Acted as the **Organizing Secretary** of the National Seminar on **“Recent Developments in Mathematics and its Applications”** held at the Department of Mathematics, University of North Bengal during 20-22 January, 2005.
6. Acted as the **Jt. Convener** of the National Seminar on **“Advances in Mathematics and Applications”** held at the Department of Mathematics, University of Burdwan during January 18-20, 2006.
7. Acted as a **Judge of the Utsav 2007** organized by the Bardhaman Raj College Students Union during 7-9 December, 2007.
8. Acted as a member of the **Academic Advisory Committee of UGC-Academic Staff College, Burdwan University.**
9. Acted as a member of the **screening Committee conferring permanent status of Faculty members in The University Institute of Technology, Burdwan University.**
10. Acted as the subject **course coordinator for NET/SET** centre of Burdwan University, 2007.
11. Acted as the **course coordinator** of **M.Sc. programme** under Distance Education mode of Burdwan University, 2007.
12. Acted as one of the **Adjudicators** in the panel discussion on **“Role of computer on Modern Mathematics”** on 28<sup>th</sup> February, 2007 at UGC- Academic Staff College, Burdwan University during 9<sup>th</sup> Refreshers’ course in Mathematics.
13. Acted as a **course coordinator** of the **9<sup>th</sup> Refreshers’ course** on **“Mathematics and Applications”** during 17<sup>th</sup> February, 2007 to 9<sup>th</sup> March, 2007.
14. Acted as the **subject Expert** of the **Selection Committee** for the Selection of Lecturer of (i) J. K. College, Purulia, (ii) Bankura Christian College, Bankura, (iii) Burdwan M.U.C. Women’s College.
15. Participated the 6<sup>th</sup> Meeting of the **Academic Advisory Committee** of UGC- Academic Staff College on 24<sup>th</sup> February, 2007 at Burdwan University.
16. Acted as the **Chairman of the Organizing Committee** for the **International Conference on Frontier of Mathematics and Applications (ICFMA-2008)** held at the Department of Mathematics, Burdwan University, Burdwan, India during January 16-18, 2008.
17. Acted as the **subject expert** for the Career Advancement Scheme for College teachers of various affiliated colleges under Burdwan University.
18. Acted as a **member of the Under Graduate Council** of the Burdwan University.
19. Acting as a **member of the Board of studies of the Science and Humanities of the University Institute of Technology, Burdwan University.**
20. Acted as the **Chairman of the Board of the under graduates studies in Mathematics, Burdwan University.**
21. Acted as the **Chairman of the board of Post Graduate Studies in Mathematics, Burdwan University.**
22. Acted as a member of the **advisory committee of the National conference on “Uncertainty: A Mathematical Approach”** to be held on 23 & 24<sup>th</sup> September, 2008 organized by the M.U.C. Women’s college, Burdwan.
23. Acted as an elected member of the Court Council of the Burdwan University.
24. Acted as the **Coordinator of the DST-FIST Programme, Government of India, in the Department of Mathematics, Burdwan University.**
25. Acted as the **Coordinator of the National Board for Higher Mathematics Programme, Government of India, in the Department of Mathematics, Burdwan University.**
26. Acted as the **Coordinator of the Regional Mathematical Olympiad Test** held at the Department of Mathematics, Burdwan University funded by the National Board for Higher Mathematics, Government of India.
27. Acted as the **Editor** of the study materials on **Linear Algebra, Topology and Modern Algebra** under Directorate of Distance Education, Burdwan University.
28. Acted as the **Joint Secretary** of the Burdwan University Teachers’ Association from June 2008 to June 2010.
29. Acting as a **member of the advisory committee** for the NET/SET coaching centre of Burdwan University.
30. Acted as a **member of the advisory committee of the Centre for Interdisciplinary Studies of Burdwan University.**
31. Acted as a **member of the Board of the under graduates studies in Mathematics, Burdwan University.**
32. Acted as a **member of Research Advisory Committee** in Mathematics, Burdwan University.
33. Acted as a **member of Pay Implementation Committee, Burdwan University.**
34. Acted as a **member of the Group Mediclaim Insurance committee, Burdwan University.**
35. Acted as the **Jt. Convener** of the National seminar on **“Frontier of Mathematics and Applications” (NSFMA-2010)** organized by **Calcutta Mathematical Society** during 27-28 March, 2010.
36. Acted as a **member of Executive Committee of Burdwan University Teachers’ Association.**
37. Acted as an **Associate Editor of the Journal of Calcutta Mathematical Society.**
38. Acted as an **Elected council member of Calcutta Mathematical Society.**
39. Acted as the Jt. Convener of the **“International Conference of Recent Advances in Mathematics and Applications” (ICRAMA-2010)** held at the Department of Mathematics, Burdwan University during January 13-15, 2010.

40. Acted as an **Adjudicator for the seminar presentation of 70<sup>th</sup> and 73<sup>rd</sup> Orientation programme** conducted by UGC-ASC, Burdwan University.
41. Acted as the **subject coordinator for NET/SET** coaching centre of Burdwan University in 2010.
42. Acted as the Jt. Convener of **the International Conference on Recent Development in Mathematical Sciences and their Applications (ICRDMSA-2010)** held at Calcutta Mathematical Society, Kolkata during December 09-11, 2010.
43. Acting as a **Member of the Advisory Board of the Journal of Progressive Science**, published from, Ballia, U.P., India.
44. Acted as the **Jt. Convener of the International Conference on Recent Advances in Mathematical Sciences and Applications (ICRAMSA-2011)** held at Calcutta Mathematical Society, Kolkata during December 09-11, 2011.
45. Acting as the **academic Vice-President** of the **Nadia Mathematical Society**, Krishnanagar, Nadia.
46. Acted as an Adjudicator for the seminar presentation of 89<sup>th</sup> Orientation Programme on 23<sup>rd</sup> February, 2013 conducted by UGC-ASC, B. U.
47. Acted as a resource person and taken computer practical class on MS Word-2007 on 12<sup>th</sup> June, 2013 and 12<sup>th</sup> June, 2013 in 90<sup>th</sup> Orientation Programme conducted by UGC-ASC, B. U.
48. Acting as member of many administrative committees of Burdwan University.
49. Acting as a member of the **Court Council** of the University of Burdwan,
50. Acting as a member of the **Finance Committee** of the University of Burdwan.
51. Acting as an **external expert member of PGBS** in Mathematics of University of Gour Banga, Sidhu Kahno Birsa University, Bankura University.
52. Acting as an external expert member of the **Research Advisory Committee** in Mathematics of Bankura University.
53. Acting as a member of the **Research Advisory Committee** of the University of Burdwan.
54. Acting as an expert member of many Selection Committees of the Carrier Advance Scheme of College Teachers' under University of Burdwan.
55. Acting as an expert member of UGC for the Major Research project evaluation Committee.
56. Acted as an observer of AIPMT and NEET, Government of India for several years.
57. Acted as observer of WBJEEB-2016, Government of West Bengal.
58. Acted as external expert of West Bengal Public Service Commission, Bihar Public Service Commission, West Bengal College Service Commission.

A Ashaikh