# **Curriculum Vitae**

# 1. Name: DR. NAYANDEEP DEKA BARUAH.

- 2. Designation: Professor, Department of Mathematical Sciences, Tezpur University, Assam, INDIA.
- 3. Mailing address: Department of Mathematical Sciences, Tezpur University, Napaam, Assam, PIN-784028.

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- 4. Nationality: Indian.
- 5. Sex: Male.
- 6. Marital Status: Married.
- 7. Date of Birth: February 1, 1972.
- 8. Education:
  - HLSC from *Katiori Higher Secondary School*, Sibsagar, Assam in 1987.
  - HS from *Cotton College*, Guwahati, Assam in 1989.
  - B. Sc. in Mathematics (Major) from *Cotton College*, Guwahati, under Gauhati University, Assam in **1992**.
  - M. Sc. in Mathematics from *Indian Institute of Technolgy (IIT), Kanpur* in 1995.
  - Qualified UGC-CSIR NET in 1995.
  - Qualified **GATE** in **1995**.
  - Ph. D. in Mathematical Sciences from *Tezpur University*, Assam in 2001. Title of the thesis: *Contributions to Ramanujan's Schläfli-type Modular Equations, Class Invariants, Theta-functions, and Continued Fractions.* Thesis Advisor: **Prof. P. Bhattacharyya**.
- 9. Details of Employment:

## Sept. 24, 2009 - Present:

**PROFESSOR**, Department of Mathematical Sciences, **Tezpur University**, Assam.

June 14, 2007 – September 24, 2009:

**ASSOCIATE PROFESSOR**, Department of Mathematical Sciences, **Tezpur University**, Assam.

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# June 14, 2004 – June 13, 2007:

**READER**, Department of Mathematical Sciences, **Tezpur University**, Assam.

### November 1, 2001 – June 13, 2004:

**SENIOR LECTURER**, Department of Mathematical Sciences, **Tezpur University**, Assam.

#### February 6, 1997 – October 31, 2001:

**LECTURER**, Department of Mathematical Sciences, **Tezpur University**, Assam.

#### March 18, 1996 – Jan. 30, 1997:

**LECTURER**, Department of Mathematics, **Assam University**, Silchar, Assam.

March, 2006 – March, 2007:

**BOYSCAST FELLOW of DST, Govt. of India**, Department of Mathematics, **University of Illinois at Urbana-Champaign**, USA.

- 10. Professional Recognition, Awards, Fellowships received:
  - (a) Prof. M. Vengkataraman Best Paper Presentation Award by the Ramanujan Mathematical Society in its 15th Annual Conference held at the Ramanujan Institute for Advanced Study in Mathematics, University of Madras, during June 5-7, 2000.
  - (b) Young Scientist Award in the section of Mathematical Sciences by the Indian Science Congress Association in its 91st Indian Science Congress held at Punjab University, Chandigarh, during January 3-7, 2004.
  - (c) Eighth Dr. Biraj Mohan Das Memorial Science Award, 1999-2003 in 2006 by the Dr. Biraj Mohan Das Memorial Trust.
  - (d) BOYSCAST FELLOWSHIP 2005-06 of DST, Govt. of India. Under this fellowship, I spent the year March, 2006 – March, 2007 at the University of Illinois at Urbana-Champaign, USA, as a Visiting Scholar and conducted joint research work with Professor Bruce C. Berndt.
  - (e) 29th Srinivasa Ramanujan Award Lecture of Indian Mathematical Society. I delivered this award lecture in the 84th Annual Conference of the Indian Mathematical Society: An International Meet held in the Shri Mata Vaishno Devi University, Jammu on November 28, 2018.
- 11. Research Interest:

Number Theory, Special Functions, & Ramanujan's Mathematics, especially, Elliptic and Theta Functions, Modular Equations, Continued Fractions, q-series, Partition Theory, etc.

#### 12. a) My Past Ph. D. students

- Dr. Nipen Saikia (March, 2007): Explicit Evaluations of Ramanujan's Continued Fractions and Theta-Functions.
- Dr. Jonali Bora (March, 2007): Contributions to Ramanujan's Theta-Functions and Modular Equations.
- Dr. Bipul Kumar Sarmah (June, 2012): Contributions to Partition Identities and Sums of Polygonal Numbers by Using Ramanujan's Theta Functions.
- Dr. Narayan Nayak (October, 2013): A Study on Ramanujan-type Series for  $1/\pi$ .
- Dr. Kallol Nath (October, 2013): Contributions to t-core Partitions for Some Small t by Using Ramanujan's Theta Functions.
- Dr. Kanan Kumari Ojah (December, 2013): Contributions to Partition Identities and Congruences by Using Ramanujan's Theta Functions, Modular Equations and Continued Fractions.
- Dr. Gautam Kalita (March, 2014): (Co-supervisor) Certain Families of Algebraic Curves and Polynomials, and Their Connections to Hypergeometric Functions.
- Dr. Bidyut Boruah (June, 2014): Arithmetic Identities of the Coefficients of Some Theta Functions and Colored Partition Identities.
- Dr. Zakir Ahmed (June, 2016): Congruences for Some Partition Functions by Using Dissections of q-Products and Ramanujan's Theta Functions.
- Ms. Kuwali Das (Thesis submitted on November 16, 2016, deceased on December 16, 2016): Studies on Some Cubic Modular Equations of Ramanujan and Congruences for Certain Partition Functions.
- Dr. Mandeep Kaur (June, 2019): Arithmetic Properties of a Partition Function, Vanishing Coefficients in Infinite Product Expansions and Relations Between Sums of Squares and Triangular Numbers.
- Dr. Nilufar Mana Begum (June, 2019): Exact Generating Functions and Congruences for Some Partition Functions.
- Dr. Hirakjyoti Das (June, 2022): Contributions to matching coefficients in q-products, congruences for fractional and restricted partition functions, and representations of integers by quadratic forms.
- Dr. Subhajit Bandyopadhyay (June, 2024): Contributions to arithmetic identities involving sums of polygonal numbers, n-color partitions, restricted overpartitions and t-cores.

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- b) My Current Ph. D. students
  - Abhishek Sharma
  - Pranjal Talukdar
  - Roktim Moran
  - Pankaj Gogoi
- 13. List of publications in referred journals (71), conference proceedings (3) and Book Chapter (1):
  - (75) Nayandeep Deka Baruah (*with Abhishek Sarma*): Arithmetic properties of 5-regular partitions into distinct parts, International Journal of Number Theory, to appear, 2024.
  - (74) Nayandeep Deka Baruah (with Pranjal Talukdar): Identities for the Rogers-Ramanujan continued fraction, Journal of the Korean Mathematical Society, to appear, 2024.
  - (73) Nayandeep Deka Baruah (with Subhajit Bandyopadhyay): Arithmetic identities for some analogs of the 5-core partition function, Journal of Integer Sequences, Vol. 27, Article 24.4.5, 15 pp., 2024.
  - (72) Nayandeep Deka Baruah: Divisibility of sums of partition numbers by multiples of 2 and 3, Bulletin of the Australian Mathematical Society, Vol. 110, pp. 271–279, 2024.
  - (71) Nayandeep Deka Baruah (with Abhishek Sarma): Differences of even and odd numbers of parts of the cubic and analogous partition functions, Bol. Soc. Mat. Mex., Vol. 29, #A94, 24 pp., 2023.
  - (70) Nayandeep Deka Baruah (with Subhash Chandra Bhoria, Pramod Eyyunni and Bibekananda Maji): A refinement of a result of Andrews and Newman on the sum of minimal excludants, The Ramanujan Journal, Vol. 62, pp. 1045-1067, 2023.
  - (69) Nayandeep Deka Baruah (with Subhajit Bandyopadhyay): A note on the number of representations of n as a sum of generalized polygonal numbers, Integers, Vol. 23, #A40, 9 pp., 2023.
  - (68) Nayandeep Deka Baruah (*with Hirakjyoti Das and Pranjal Talukdar*): Congruences for *k*-elongated plane partition diamonds, International Journal of Number Theory, Vol. 19, pp. 2121–2139, **2023**.
  - (67) Nayandeep Deka Baruah: Ramanujan's modular equations with applications to partitions, in Srinivasa Ramanujan: His Life, Legacy, and Mathematical Influence, G. E. Andrews, B. C. Berndt, F. Garvan, K. Ono, P. Paule, S. O. Warnaar and A.J. Yee (Editors), Springer, 2023.
  - (66) Nayandeep Deka Baruah (with Hirakjyoti Das): Congruences for the coefficients of a pair of third and sixth order mock theta functions, The Ramanujan Journal, Vol. 61, pp. 1269 –1282, 2023.

- (65) Nayandeep Deka Baruah (with Hirakjyoti Das): Infinite families of congruences modulo powers of 2 for some partition functions involving only odd parts, International Journal of Number Theory, Vol. 18, pp. 1843–1862, 2022.
- (64) Nayandeep Deka Baruah (with Hirakjyoti Das): On 3<sup>k</sup>-regular cubic partitions, Journal of the Korean Mathematical Society, Vol. 59, pp. 685 -697, 2022.
- (63) Nayandeep Deka Baruah (with Hirakjyoti Das): Matching Coefficients in the series expansions of certain q-products and their reciprocals, The Ramanujan Journal, Vol. 59, pp. 511–548, 2022.
- (62) Nayandeep Deka Baruah (*with Hirakjyoti Das*): Relations among representations of integers by certain quadratic forms, Indian Journal of Pure and Applied Mathematics, Vol. 53, pp. 672–682, 2022.
- (61) Nayandeep Deka Baruah (with Hirakjyoti Das): Generating functions and congruences for 9-regular and 27-regular partitions in 3 colors, Hardy-Ramanujan Journal (Special Commemorative volume in honour of Srinivasa Ramanujan), Vol. 44, pp. 101 –115, 2021.
- (60) Nayandeep Deka Baruah (*with Hirakjyoti Das*): Families of congruences for fractional partition functions modulo powers of primes, Research in Number Theory, Vol. 7, Article No. 57, 21 pp., 2021.
- (59) Nayandeep Deka Baruah (with Subhajit Bandyopadhyay): The n-color partition function and some counting theorems, Integers, Vol. 21, #A83, 16 pp., 2021.
- (58) Nayandeep Deka Baruah (with Mandeep Kaur): A note on some recent results of Da Silva and Sellers on congruences for k-regular partitions with designated summands, Integers, Vol. 20, #A74, 6 pp., 2020.
- (57) Nayandeep Deka Baruah (with Mandeep Kaur): Some results on vanishing coefficients in infinite product expansions, The Ramanujan Journal, Vol. 53, No. 3, pp. 551–568, 2020.
- (56) Nayandeep Deka Baruah (*with Mandeep Kaur*): New congruences modulo 2, 4, and 8 for the number of tagged parts over the partitions with designated summands, The Ramanujan Journal, Vol. 52, No. 2, pp. 253–274, **2020**.
- (55) Nayandeep Deka Baruah (with Nilufar Mana Begum): Generating functions and congruences for some partition functions related to mock theta functions, International Journal of Number Theory, Vol. 16, No. 2, pp. 423–446, 2020.
- (54) Nayandeep Deka Baruah (with Mandeep Kaur, Mingyu Kim, Byeong Kweon Oh): Proofs of some conjectures by Z. -H. Sun on relations between sums of squares and sums of triangular numbers, Indian Journal of Pure and Applied Mathematics, Vol. 51, No. 1, pp. 11–38, 2020.

- (53) Nayandeep Deka Baruah (with Nilufar Mana Begum): Proofs of some conjectures of Chan on Appell-Lerch sums, The Ramanujan Journal, Vol. 51, No. 1, pp. 99–115, 2020.
- (52) Nayandeep Deka Baruah (*with Nilufar Mana Begum*): On Exact generating functions for the number of partitions into distinct parts, International Journal of Number Theory, Vol. 14, No. 7, pp. 1995–2011, **2018**.
- (51) Nayandeep Deka Baruah (with Bidyut Boruah): Partition identities arising from Ramanujan's formulas for multipliers, The Ramanujan Journal, Vol. 42, pp. 241–265, 2017.
- (50) Nayandeep Deka Baruah (with Zakir Ahmed): New congruences for  $\ell$ -regular partitions for  $\ell \in \{5, 6, 7, 49\}$ , The Ramanujan Journal, Vol. 40, pp. 649–668, **2016**.
- (49) Nayandeep Deka Baruah (with Zakir Ahmed and Manosij Ghosh Dastidar): New congruences modulo 5 for the number of 2-color partitions, Journal of Number Theory, Vol. 157, pp. 184–198, 2015.
- (48) Nayandeep Deka Baruah (with Zakir Ahmed): Congruences modulo  $p^2$  and  $p^3$  for k dots bracelet partitions with  $k = mp^s$ , Journal of Number Theory, Vol. 151, pp. 129–146, **2015**.
- (47) Nayandeep Deka Baruah (with Kuwali Das): Bipartitions with 4-cores and sextenary quadratic forms, Proceedings of the Conference of RMS-2014, RMS-Lecture Notes Series, No. 21, pp. 27–38, 2015.
- (46) Nayandeep Deka Baruah (with Kanan Kumari Ojah): Partitions with designated summands in which all parts are odd, Integers, Vol. 15, #A9, 16 pp., 2015.
- (45) Nayandeep Deka Baruah (with Zakir Ahmed): New congruences for Andrews' singular overpartitions, International Journal of Number Theory, Vol. 11, pp. 2247–2264, 2015.
- (44) Nayandeep Deka Baruah (*with Kuwali Das*): Parity results for 7-regular and 23-regular partitions, International Journal of Number Theory, Vol. 11, pp. 2221–2238, **2015**.
- (43) Nayandeep Deka Baruah (with Bidyut Boruah): Colored partition identities conjectured by Sandon and Zanello, The Ramanujan Journal, Vol. 37, pp. 479–533, 2015.
- (42) Nayandeep Deka Baruah (with Kallol Nath): Infinite families of arithmetic identities and congruences for bipartitions with 3-cores, Journal of Number Theory, Vol. 149, pp. 92–104, 2015.
- (41) Nayandeep Deka Baruah (with Zakir Ahmed): Parity results for broken 5-diamond, 7-diamond and 11-diamond partitions, International Journal of Number Theory, Vol. 11, pp. 527–542, 2015.

- (40) Nayandeep Deka Baruah (with Bipul Kumar Sarmah): Generalized Frobenius partitions with 6 colors, The Ramanujan Journal, Vol. 38, pp. 361– 382, 2015.
- (39) Nayandeep Deka Baruah (*with Kallol Nath*): Infinite families of arithmetic identities for doubled distinct *t*-cores for  $t = 3, 4, \dots, 10$ , International Journal of Number Theory, Vol. 10, pp. 85–113, **2014**.
- (38) Nayandeep Deka Baruah (*with Kallol Nath*): Infinite families of arithmetic identities for self-conjugate 5-cores and 7-cores, Discrete Mathematics, Vol. 321, pp. 57–67, 2014.
- (37) Nayandeep Deka Baruah (*with Kallol Nath*): Some results on 3-cores, Proceedings of the American Mathematical Society, Vol. 142, pp. 441– 448, 2014.
- (36) Nayandeep Deka Baruah (with Kallol Nath): Two quotients of theta functions and arithmetic identities for 3-cores, in The Legacy of Srinivasa Ramanuajan, B.C. Berndt and D. Prasad (eds.), RMS Lecture Notes Series, Ramanujan Mathematical Society, Vol. 20, pp. 99–110, 2013.
- (35) Nayandeep Deka Baruah (*with Bipul Kumar Sarmah*): Identities and congruences for the general partition and Ramanujan's tau functions, Indian Journal of Pure and Applied Mathematics, Vol. 44, pp. 643–671, 2013.
- (34) Nayandeep Deka Baruah (*with Kallol Nath*): Infinite families of arithmetic identities for 4-cores, Bulletin of the Australian Mathematical Society, Vol. 87, pp. 304–315, 2013.
- (33) Nayandeep Deka Baruah (with Jonali Bora and Kanan Kumari Ojah): Ramanujan's modular equations of degree 5, Proceedings of the Indian Academy of Science (Mathematical Sciences), Vol. 122, No. 4, pp. 485–506, 2012.
- (32) Nayandeep Deka Baruah (with Bipul Kumar Sarmah): The number of representations of a number as sums of various polygonal numbers, Integers, Vol. 12, #A54, 16 pp. 2012.
- (31) Nayandeep Deka Baruah (with Kanan Kumari Ojah): Analogues of Ramanujan's partition identities and congruences arising from his theta functions and modular equations, The Ramanujan Journal, Vol. 28, Issue 3, pp. 385–407, 2012.
- (30) Nayandeep Deka Baruah (with Bidyut Boruah): Two theta function identities of Ramanujan and representation of a number as a sum of three squares and as a sum of three triangular numbers, Integers, Vol. 12, #A40, 11 pp. 2012.
- (29) Nayandeep Deka Baruah (with Bipul Kumar Sarmah): Identities for selfconjugate 7- and 9-core partitions, International Journal of Number Theory, Vol. 8, Issue 3, pp. 653–667, 2012.

- (28) Nayandeep Deka Baruah (with Kanan Kumari Ojah): Some congruences deducible from Ramanujan's cubic continued fraction, International Journal of Number Theory, Vol. 7, Issue 5, pp. 1331–1343, 2011.
- (27) Nayandeep Deka Baruah (with Bipul Kumar Sarmah): Congruences for generalized Frobenius partitions with 4 colors, Discrete Mathematics, Vol. 311, Issue 17, pp. 1892–1902, 2011.
- (26) Nayandeep Deka Baruah (*with Narayan Nayak*): New hypergeometriclike series for  $1/\pi^2$  arising from Ramanujan's theory of elliptic functions to alternative base 3, **Transactions of the American Mathematical Society**, Vol. 363, Issue 2, pp. 887–900, **2011**.
- (25) Nayandeep Deka Baruah (with Rupam Barman): Ramanujan's modular equations of degree 15 and associated theta-function identities, Proceedings of the Indian Academy of Sciences (Mathematics Sciences), Vol. 120, Issue 3, pp. 267–284, 2010.
- (24) Nayandeep Deka Baruah (with Narayan Nayak): Series for 1/π arising from certain representations for Eisenstein series in Ramanujan's second notebook, in Ramanujan Rediscovered, N. D. Baruah, B.C. Berndt, S. Cooper, T. Huber, M. Schlosser (eds.), RMS Lecture Notes Series, No. 14, Ramanujan Mathematical Society, pp. 9–30, 2010.
- (23) Nayandeep Deka Baruah (with Bruce C. Berndt): Eisenstein Series and Ramanujan-type series for  $1/\pi$ , The Ramanujan Journal, Vol. 23, Issues 1–3, pp. 17–33, 2010.
- (22) Nayandeep Deka Baruah (with Bruce C. Berndt): Ramanujan's Eisenstein series and new hypergeometric-like series for 1/π<sup>2</sup>, Journal of Approximation Theory, Vol. 160, Issues 1–2, pp. 135–153, 2009.
- (21) Nayandeep Deka Baruah (with Bruce C. Berndt and Heng Huat Chan): Ramanujan's series for 1/π: A survey, Mathematics Student (Special Centenary Volume), pp. 1–24, 2007; American Mathematical Monthly, Vol. 116, No. 7, pp. 567–587, 2009.
- (20) Nayandeep Deka Baruah (with Shaun Cooper and Michael Hirschhorn): Sums of squares and sums of triangular numbers induced by partitions of 8, International Journal of Number Theory, Vol. 4, No. 4, pp. 525–538, 2008.
- (19) Nayandeep Deka Baruah (with Bruce C. Berndt): Partition identities arising from theta function identities, Acta Mathematica Sinica, English Series, Vol. 24, No. 6, pp. 955–970, 2008.
- (18) Nayandeep Deka Baruah (with Nipen Saikia): Explicit evaluations of Ramanujan-Göllnitz-Gordon continued fraction, Monatshefte für Mathematik, Vol. 154, No. 4, pp. 271–288, 2008.
- (17) Nayandeep Deka Baruah (*with Jonali Bora*): Modular equations for the nonic analogues of the Rogers-Ramanujan functions with applications to

partitions, Journal of Number Theory, Vol. 128, No. 1, pp. 175–206, 2008.

- (16) Nayandeep Deka Baruah (with Bruce C. Berndt): Ramanujan's series for  $1/\pi$  arising from his cubic and quartic theories of elliptic functions, Journal of Mathematical Analysis and Applications, Vol. 341, No. 1, pp. 357–371, 2008.
- (15) Nayandeep Deka Baruah (with Jonali Bora and Nipen Saikia): Some new proofs of the modular relations for the Göllnitz-Gordon functions, The Ramanujan Journal, Vol. 15, No. 2, pp. 281–301, 2008.
- (14) Nayandeep Deka Baruah (with Bruce C. Berndt): Partition identities and Ramanujan's modular equations, Journal of Combinatorial Theory, Series
  A, Vol. 114, No. 6, pp. 1024–1045, 2007.
- (13) Nayandeep Deka Baruah (with Jonali Bora): Further analogues of the Rogers-Ramanujan functions with applications to partitions, Integers – The Electronic Journal of Combinatorial Number Theory, Vol. 7(2), Article No. A5, 22 pp., 2007.
- (12) Nayandeep Deka Baruah (with Nipen Saikia): Two parameters for Ramanujan's theta-functions and their explicit values, Rocky Mountain Journal of Mathematics, Vol. 37, No. 6, pp. 1747–1790, 2007.
- (11) Nayandeep Deka Baruah (with Nipen Saikia): Modular relations and explicit values of Ramanujan-Selberg continued fractions, International Journal of Mathematics and Mathematical Sciences, Vol. 2006, Article ID 54901, pp. 1–15, 2006.
- (10) Nayandeep Deka Baruah (with Rupam Barman): Certain theta-function identities and Ramanujan's modular equations of degree 3, Indian Journal of Mathematics, Vol. 48, No. 1, pp. 113–133, 2006.
- (9) Nayandeep Deka Baruah (*with Jonali Bora*): Some new proofs of Ramanujan's modular equations of degree 9, Indian Journal of Mathematics, Vol. 47, No. 1, pp. 99–122, 2005.
- (8) Nayandeep Deka Baruah (with Nipen Saikia): Some new explicit values of Ramanujan's continued fractions, Indian Journal of Mathematics, Vol. 46, Nos. 2-3, pp. 197–222, 2004.
- (7) Nayandeep Deka Baruah (with P. Bhattacharyya): Some theorems on the explicit evaluations of Ramanujan's theta-functions; International Journal of Mathematics and Mathematical Sciences, Vol. 2004, No. 40, pp. 2149– 2159, 2004.
- (6) Nayandeep Deka Baruah (with Nipen Saikia): Some general theorems on the explicit evaluations of Ramanujan's cubic continued fraction; Journal of Computational and Applied Mathematics, Vol. 160, Nos. 1-2, pp. 37–51, 2003.

- (5) Nayandeep Deka Baruah: On some of Ramanujan's Schläfli-type "Mixed" modular equations; Journal of Number Theory, Vol. 100, No. 2, pp. 270–294, 2003.
- (4) Nayandeep Deka Baruah: Modular equations for Ramanujan's cubic continued fraction; Journal of Mathematical Analysis and Applications, Vol. 268, No. 1, pp. 244–255, 2002.
- (3) Nayandeep Deka Baruah: On some class invariants of Ramanujan; Journal of the Indian Mathematical Society , Vol. 68, Nos. 1–4, pp. 113–133, 2001.
- (2) Nayandeep Deka Baruah: On some of Ramanujan's identities for eta-functions; Indian Journal of Mathematics, Vol. 42, No. 3, pp. 253–266, 2000.
- (1) Nayandeep Deka Baruah: A few theta-function identities and some of Ramanujan's modular equations; The Ramanujan Journal , Vol. 4, No. 3, pp. 239–250, 2000.
- 14. Other publications:
  - (a) Nayandeep Deka Baruah: *RAMANUJAN AARU TEUR GONIT*, An Assamese book on Ramanujan and his mathematics published by Sanjiwan Prakashan, Guwahati, 2021; Second Edition 2024.
- 15. Papers/invited talks presented in national/international conferences:
  - (1) "On some of Ramanujan's Schläfli-type modular equations," presented at the 15th Annual Conference of the Ramanujan Mathematical Society, held at the Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, during 5–7 June, 2000.
  - (2) "Some general theorems on the explicit evaluations of Ramanujan's cubic continued fraction," presented at the International Conference on Special Functions and Their Applications (ICSF 2002), held at the Institute of Mathematical Sciences, Chennai, India, during September 23–27, 2002.
  - (3) "Some new explicit values of Ramanujan's continued fractions," **presented** at the **91st Indian Science Congress** held at Punjab University, **Chandigarh**, during **January 3–7**, 2004.
  - (4) "Nonic Analogues of the Rogers-Ramanujan functions with applications to partitions," invited talk given in the INTEGERS CONFERENCE 2005 held at The University of West Georgia, USA, during October 27–30, 2005.
  - (5) "Partition identities arising from Ramanujan's modular equations and theta functions," Contributed talk in the Joint AMS-MAA Meeting, New Orleans, USA, January 5–8, 2007.

- (6) "Ramanujan's Eisenstein series and new hypergeometric-like series for 1/π<sup>2</sup>," invited talk in the 73rd annual conference and centenary celebration of the Indian Mathematical Society held at Pune during December 27–30, 2007.
- (7) "New hypergeometric-like series for 1/π<sup>2</sup> arising from Eisenstein series and Ramanujan's cubic theory of elliptic functions," invited talk in the international conference "Ramanujan Rediscovered" at IIIT, Bangalore during June 1–5, 2009.
- (8) "Quest for the digits of π," invited general talk in the international conference "Ramanujan Rediscovered" at IIIT, Bangalore during June 1–5, 2009.
- (9) "Ramanujan's modular equations and theta function identities with applications to t-cores," invited talk in *The Legacy of Srinivasa Ramanuajan- An International Conference*, held at University of Delhi during December 17–22, 2012.
- (10) "Generalized Frobenius partitions with 4, 5, and 6 colors," invited talk in the 29th Annual Conference of the Ramanuajan Mathematical Society held at IISER, Pune during June 23–27, 2014.
- (11) "Some new congruences for the number of partitions into distinct (or into odd) parts," invited talk in the 29th International Conference of The Jangjeon Mathematical Society on Number Theory and Special Functions and Their Applications at Pondicherry University, Puducherry during August 8–10, 2016.
- (12) "Some recent results on generalized Frobenius partitions," Keynote Address in the National Conference on "Advances in Science, Engineering and Technology (ASET 2017)" held at Girijananda Chowdhury Institute of Management and Technology (GIMT), Tezpur during November 10–11, 2017.
- (13) "Some partition identities analogous to Ramanujan's "Most Beautiful Identity"," 29th S. Ramanujan Memorial Award Lecture in the 84th Annual Conference of Indian Mathematical Society: An International Meet, held at Shri Mata Vaishno Devi University, Jammu during November 27–30, 2018.
- (14) "Ramanujan's "most beautiful identity" and some analogous results related to mock theta functions," Invited Talk in the International Conference on Number Theory and Graph Theory, held at University of Mysore, Karnataka during June 27–29, 2019.
- (15) "Ramanujan and Pi," invited talk on December 22, 2020 in the International Conference on Number Theory and Algebra held at IIT BHU during December 22–23, 2020.
- (16) "Matching coefficients in the series expansions of certain q-products and their reciprocals," invited talk on December 22, 2021 in the International e-conference on Number Theory and Differential Equations held at Central University of Karnataka, Bengaluru during December 20–24, 2021.

- (17) "Some new modular equations for the Rogers-Ramanujan continued fraction," invited talk on December 20, 2022 in the *International Conference on Number Theory* held at SASTRA University, Kombakonam, Tamil Nadu during December 20–22, 2022.
- (18) "Identities for the Rogers-Ramanujan continued fraction and Rogers-Ramanujan functions," invited talk on November 7, 2023 in the National Conference on Mathematics and its Applications-II (NCMA-II) held at Cotton University, Guwahati during November 7–8, 2023.
- 16. Invited talks and talks in Seminars, Workshops, Refresher Courses, etc.:
  - (1) In 2001
    - (a) June 18 & 21: Delivered a couple of talks at Government Girls' H.S. and M.P. School, Tezpur, in the "Five Day in Service Training Course cum Workshop for Secondary School Teachers of Sonitpur District," organized by the Inspector of Schools, Sonitpur District Circle, held during June 18–22.
    - (b) June 27 & 28: Delivered a couple of talks on "Pi and Fibbonacci Numbers," in the Refresher Course for Higher Secondary Subject Teachers organized by Assam Higher Secondary Education Council (AHSEC), held at Lakhimpur Girls' College, Lakhimpur.
    - (c) October 10: Delivered a talk on "Ramanujan and  $\pi$ ," at Lokanayak Amio Kumar Das College, Dhekiajuli.
    - (d) **December 8**: Delivered a talk on "The Story of  $\pi$ ," at Darrang College, Tezpur.
  - (2) <u>In 2002</u>
    - (a) February 28: Delivered an invited talk on "Beautiful Numbers and Pi," at Jawahar Navodaya Vidyalaya, Sonitpur.
    - (b) **November 27**: Conducted a **Mathematical Quiz Contest** amongst the High school and HS students held at Nagaon Polytechnic and organized by the **Assam Academy of Mathematics, Nagaon Branch**.
    - (c) December 2–6: Delivered five lectures on "Fourier Series and Transforms," in the Refresher Course on Physics of Earthquakes organized by the Department of Mathematical Sciences, Tezpur University and sponsored by Indian Academy of Sciences (IASc), Bangalore.
  - (3) <u>In 2003</u>
    - (a) July 4: Delivered an invited talk on "Geometry and Numbers," at Kaliabor College, Nagaon.

- (b) November 14: Delivered an invited talk on "Ramanujan's Number Theory, at Tyagbir Hem Baruah College, Jamugurihat, Sonitpur, Assam.
- (c) December 3: Delivered (jointly with *Professor Malay Dutta* of Dept. of Information Technology, Tezpur University) the Sixth Professor R. C. Gupta Endowment Lecture of Assam Academy of Mathematics, held at Darrang College (Topic: "Primality: A Historical Perspective.")
- (4) <u>In 2004</u>
  - (a) July 4: Delivered an invited talk on "How Mathematics Learning Can Be Made Interesting," in a seminar organized by Bharata Jana Vijnan Jatha, Tezpur Branch.
  - (b) December 10–30: Delivered a series of six lectures on "Complex Analysis," in the UGC Refresher Course in Mathematics organized by the Department of Mathematical Sciences, Tezpur University during December 10-30, 2004.
- (5) <u>In 2005</u>
  - (a) January 6: Delivered an invited talk on "How to Teach Mathematics in Primary Schools," in a motivational programme for school teachers organized by Tezpur Gurukul School, Sonitpur.
  - (b) February 16–18: Delivered a series of six talks on "Elementary, Analytic and Computational Number Theories," in the UGC sponsored Refresher Course in Mathematics for College/Teachers organized by the Department of Mathematics, Dibrugarh University.
  - (c) February 18: Delivered a talk on "Repunit Primes and Narcissistic Numbers," in a seminar organized by the Department of Mathematics, Dibrugarh University.
  - (d) March 15: Delivered an invited talk on "Arithmetic Geometric Mean, Modular Equations, and the Evaluation of  $\pi$ ," in the Department of Mathematics, IIT, Guwahati.
  - (e) June 26: Delivered two invited talks on "Recreational Number Theory," in a Refresher Course in Mathematics for Secondary Mathematics Teachers organized by the Assam Higher Secondary Education Council held in the Department of Mathematics, **Cotton College, Guwahati**.
- (6) <u>In 2006</u>
  - (a) August 29: Delivered a talk on "Ramanujan's Modular Equations and *t*-core Partitions," in the Number Theory Seminar of University of Illinois at Urbana-Champaign, USA.

- (b) September 21: Delivered an invited talk on "Partition Identities and Ramanujan's Modular Equations," in the Number Theory Seminar of Pennsylvania State University, USA.
- (c) November 6: Delivered a talk on "Ramanujan-type series for  $1/\pi$ ," in the *q*-series Seminar of University of Illinois at Urbana-Champaign, USA.
- (7) <u>In 2007</u>
  - (a) March 13: Delivered a talk on "Some New Series for  $1/\pi^2$ ," in the Number Theory Seminar, Department of Mathematics, University of Illinois at Urbana-Champaign, USA.
  - (b) October 16–18: Delivered a series of six lectures on various topics of "Number Theory and Mathematics Influenced by Ramanujan," in the UGC sponsored Refresher Course in Mathematics for College/University Teachers organized by the Department of Mathematics, North East Hill University (NEHU).
- (8) <u>In 2008</u>
  - (a) January 28–30: Delivered a couple of lectures on "Various Beautiful Patterns of Numbers," in the Workshop in Mathematics for High School Mathematics Teachers organized by Women's College, Tinsukia, Assam.
  - (b) June 1: Delivered a talk on "Some Simple Applications of the Greatest Integer Function and Congruences," in a training programme for Mathematics Olympiad aspirants organized by Darrang College, Tezpur.
  - (c) November 21–22: Delivered a series of four lectures on various topics of "Elementary Number Theory," in the UGC sponsored Refresher Course in Mathematics for College/University Teachers organized by the Department of Mathematics, Gauhati University.
  - (d) **December 22**: Delivered a talk on **"Ramanujan: His Life and Mathematics,"** in Ramanujan's Birthday celebration programme at **Darrang College, Tezpur**.
- (9) <u>In 2009</u>
  - (a) October 25: Delivered a talk on "Pi," and conducted a Quiz Competition among the school/college students in a seminar organized by the Nagaon Branch of Assam Academy of Mathematics at Anandaram Dhekial Phookan College, Nagaon, Assam.
  - (b) October 31: Delivered a talk on "The Amazing Story of the King and a Genius," in a seminar organized by the Department of Mathematics, Sibsagar College, Joysagar, Assam.

- (c) December 22: Delivered a talk on "Ramanujan's Life and Mathematics," in Ramanujan's Birthday celebration programme at Darrang College, Tezpur.
- (10) <u>In 2010</u>
  - (a) January 28–29: Delivered lectures on "MATHEMATICA," in a UGC Sponsored Workshop in Mathematics for College Teachers organized by Women's College, Tinsukia, Assam.
  - (b) April 23–24: Delivered a series of four lectures on Magic of Numbers, MATHEMATICA and Pi (π) in "MATH-MAGIC: A Workshop on Teaching and Learning Mathematics," organized by Delhi Public School, Duliajan, Assam.
  - (c) **June 16**: Delivered a talk on "An Inspiring story of Ramanujan and Pi  $(\pi)$ " in a DST sponsored INSPIRE Programme organized by **Tezpur University, Assam**.
  - (d) August 27: Delivered a talk on "Number System" in a training programme for Mathematics Facilitators organized by Assam Science and Technology Education Council, Assam.
  - (e) December 6–7: Delivered a series of four lectures on various topics of "Number Theory" in the UGC sponsored Refresher Course in Mathematics for College/University Teachers organized by the Department of Mathematics, North East Hill University (NEHU).
- (11) In 2011
  - (a) January 04: Delivered two talks on "Number System" in a training programme for Mathematics Facilitators organized by Assam Science and Technology Education Council, Assam.
  - (b) February 10: Delivered an invited talk on "Ramanujan-type series for 1/π and 1/π<sup>2</sup>" in a UGC sponsored National Conference on Recent Trends in Mathematical Sciences organized by North Bengal University, Siliguri, West Bengal.
  - (c) July 21: Delivered two invited talks as a mentor in Mathematical Sciences in a DST sponsored INSPIRE Programme organized by Dibrugarh University, Assam.
- (12) <u>In 2012</u>
  - (a) **April 21**: Delivered a talk on "Magical Numbers" in a Outreach Programme at **Pachmile H. S. School, Pachmile, Tezpur**.

- (b) June 14: Delivered a talk on "An Inspiring Story of a Genius and the King" in a DST sponsored INSPIRE Programme organized by Tezpur University.
- (c) July 20: Delivered an invited talk on "Ramanujan and Pi" at Royal School of Engineering and Technology, Guwahati.
- (d) **September 22**: Delivered an invited talk on "Numbers, Pi and Ramanujan" at **Dibru College, Dibrugarh** as a part of the Golden Jubilee Celebration of the College.
- (e) October 17: Delivered an invited talk on "Ramanujan's Modular Equations and Theta Functions with Applications to Partitions" at Indian Statistical Institute (ISI), Delhi Centre, New Delhi.
- (f) October 17: Delivered an invited talk on "Ramanujan and Pi" at Shri Ram School, Gurgaon, Haryana.
- (g) **October 18**: Delivered an invited talk on "Ramanujan and Pi" in the Science Academies Lecture Workshop in Celebration of the National Mathematics Year-2012 at Jamia Milia Islamia, New Delhi.
- (13) <u>In 2013</u>
  - (a) May 09: Delivered a keynote address on "Ramanujan's modular equations and theta function identities with applications to t-cores," in the National Conference on Pure and Applied Mathematics held at Royal School of Engineering and Technology, Guwahati, during May 9–10, 2013.
  - (b) December 18: Delivered a talk on "An Inspiring Story of a Genius and the King" in a DST-INSPIRE Programme organized by M. C. College, Barpeta, Assam.
  - (c) **December 25**: Delivered a talk on "Ramanujan and Pi  $(\pi)$ " in a DST-INSPIRE Programme organized by **Tezpur University, Assam**.
- (14) **In 2014** 
  - (a) May 10: Delivered an invited talk on "Fun with Mathematics," in a motivational programme for school teachers organized by Army Public School, Tezpur.
  - (b) September 06: Delivered an invited talk on "Work and Achievement of Manjul Bhargava: Fields Medalist-2014," in a seminar organized by the Department of Mathematical Sciences, Tezpur University.
  - (c) **December 20**: Delivered an invited talk on **"Ramanujan,"** in a seminar organized by the **Kendriya Vidyalaya, Central University, Tezpur**.

- (d) **December 22**: Delivered an invited talk on **"Ramanujan,"** in the National Mathematics Day celebration at **Kendriya Vidyalaya, Missamari, Sonitpur**.
- (15) <u>In 2015</u>
  - (a) March 19-21: Delivered a series of four lectures on "Number Theory," in a Refresher Course in Mathematics for College/University teachers organized by North Bengal University, West Bengal.
  - (b) June 09: Delivered an invited talk on "Ramanujan and Pi," in a seminar orginized by the Department of Mathematics, B. Barooah College, Guwahati.
- (16) **In 2016** 
  - (a) March 14: Delivered a lecture on  $\pi$  in the Pi-Day celebration organized by Girijananda Institute of Management and Technology (GIMT), Dekargaon, Tezpur.
  - (b) August 09: Delivered an invited talk on Ramanujan and  $\pi$  in the Department of Mathematics, Pondicherry University, Puducherry.
- (17) In 2017
  - (a) October 27: Delivered an invited colloquium talk on Works of Srinivasa Ramanujan organized by Indian Statistical Institute, North East Centre, Tezpur.
  - (b) December 22: Delivered an invited talk on Srinivasa Ramanujan and his works on the occasion of National Mathematics Day organized by Girijananda Institute of Management and Technology (GIMT), Azara, Guwahati.
- (18) <u>In 2018</u>
  - (a) March 14: Delivered a lecture on  $\pi$  in the Pi-Day celebration organized by Girijananda Institute of Management and Technology (GIMT), Dekargaon, Tezpur.
  - (b) July 27: Delivered a lecture on "Learning Mathematics: Some Simple Examples" in a three week long Induction Program for the newly admitted students of B. Tech. organized by School of Engineering, Tezpur University.
  - (c) November 28: Delivered the 29th S. Ramanujan Memorial Award Lecture on "Some partition identities analogous to Ramanujan's "Most Beautiful Identity"," in the 84th Annual Conference of Indian Mathematical Society: An International Meet, held at Shri Mata Vaishno Devi University, Jammu during November 27–30, 2018.

- (d) December 21 & 22: Delivered three lectures on Elementary Number Theory in the Refresher Course in Mathematics and Statistics for College/University Teachers held at Gauhati University, Assam during December 19, 2018 – January 08, 2019.
- (e) December 22: Delivered an invited talk on Ramanujan and a Glimpse of his Mathematics in the National Seminar on Advances in Mathematical Sciences commemorating the 131st birth anniversary of Srinivasa Ramanujan & National Mathematics Day organized by Department of Mathematics, Gauhati University, Assam.
- (19) <u>In 2019</u>
  - (a) February 08: Delivered an invited talk on "Some mathematical tidbits" in a seminar organized by the Students' Science Council and the Department of Mathematical Sciences, Tezpur University.
  - (b) March 30: Delivered a lecture on  $\pi$  in a belated Pi-Day celebration organized by the Students' Science Council.
  - (c) September 27: Delivered an invited talk on "Quality Research Communication: How and Why?" in the One Day Capacity Building Workshop on Quality Research Communication for the Research Scholars of the Departments of Mathematical Sciences, MBBT and Physics, organized by IQAC Cell of Tezpur University.
  - (d) December 22: Delivered an invited talk on Ramanujan and three of his contributions that influenced further research in the celebration of National Mathematics Day organized by Assam Academy of Mathematics, Tezpur Branch at Tezpur Girls H.S. and M.P. School, Tezpur.
  - (e) December 27: Delivered an invited talk on The Influence of Ramanujan in Mathematics in the belated celebration of National Mathematics Day organized by Assam Science, Technology and Environment Council (ASTEC), Aryabhatta Science Centre, Inspector of Schools and District Administration, Lakhimpur and held at Lakhimpur Higher Secondary School, Assam.
- (20) In 2020
  - (a) February 02: Delivered an invited talk on Ramanujan and his mathematics in the belated celebration of National Mathematics Day and Mathematics Olympiad Award giving ceremony organized by Assam Academy of Mathematics and held at B. Borooah College, Guwahati.
  - (b) March 14: Delivered a talk on "Pi ( $\pi$ : The King of Constants" in a celebration of Pi Day and the First International Day of Mathematics proclaimed

by UNESCO and Organized centrally in Assam by Assam Academy of Mathematics and held at Darrang College, Tezpur.

- (c) July 22: Delivered an invited online talk on "22/7 and Pi ( $\pi$ )" in a seminar organized by the web mathematics magazine **Gonit Sora**.
- (d) July 29: Delivered an invited online talk on "Ramanujan and a Glimpse of his Mathematics" in a seminar organized by Royal Global University, Guwahati.
- (e) August 26: Delivered an invited online talk on "The Story and History of Pi (π): A Mathematical Constant" in a seminar organized by Salesian College Siliguri, West Bengal.
- (f) August 27: Delivered an invited online talk on "The Story and History of Pi ( $\pi$ ): A Mathematical Constant" in a seminar organized by Golaghat Commerce College, Assam.
- (g) September 18: Delivered an invited online talk in Assamese on "Ramanujan aru teor ganitot ebhumukhi (Ramanujan and a Glimpse of his Mathematics)" in the Ramanujan Yatra Lecture Series organized by Vigyan Prasar of DST, New Delhi, Govt. of India.
- (21) In 2021
  - (a) January 7: Delivered an invited online talk on "Ramanujan and Pi" in a seminar organized by the Department of Mathematics, IIT Indore, India.
  - (b) April 15: Delivered an online talk on "Matching coefficients in some qproducts and their inverses" in the Special Functions and Number Theory seminar organized by IIT Gandhinagar, Ashoka University, New Delhi and JNU, New Delhi.
  - (c) July 22: Delivered an invited talk on "Rational approximations to irrational numbers and some related topics" in a webinar organized by Asom Jnanbhumi Academy, North Lakhimpur, Assam.
  - (d) August 11: Delivered an online talk on "Teaching Mathematics with fun" in a Teacher Training Program organized by Tezpur Science Centre of Assam Science Society, Assam.
  - (e) **December 20**: Delivered an online talk on "Ramanujan and his mathematics" in a seminar organized by **VIT Bhopal, Madhya Pradesh**.
  - (f) **December 22**: Delivered an online talk on "Ramanujan and his mathematics" in a seminar organized by **St. Anthonys College, Shillong** on the occasion of National Mathematics Day (during 11:15am–12:25pm).

- (g) **December 22**: Delivered an online talk on "Ramanujan and his Notebooks" in a seminar organized by **Sabarmati University**, **Ahmedabad**, **Gujarat** on the occasion of National Mathematics Day (during 12:35–1:00pm).
- (h) December 22: Delivered an online talk on "Ramanujan and a glimpse of his mathematics" in a seminar organized by Rajiv Gandhi University, Arunachal Pradesh on the occasion of National Mathematics Day (during 1:30-2:30pm).
- (22) <u>In 2022</u>
  - (a) January 27 & 28: Delivered two online lectures of 90 minutes each on Some Applications of the Division Algorithm and Arithmetical Functions in a Refresher Course in Mathematics for College/University Teachers organized by Gauhati University, Assam.
  - (b) February 28: Delivered a talk in the Celebration of National Science Day held at Institute of Advanced Study in Science and Technology (IASST), Guwahati.
  - (c) March 12: Delivered an online talk on "History of Pi" in the Three Days International Conference organized by the Department of Mathematics Manipur University, Manipur on the occasion of on International Pi Day.
  - (d) March 14: Delivered a talk on "Ramanujan, Pi and International Day of Mathematics" in a seminar organized by University of Science and Technology, Meghalaya on the occasion of on International Mathematics Day.
  - (e) March 14: Delivered a talk on "A Glimpse of Ramanujan's Mathematics" in a seminar organized by Cotton University, Guwahati on the occasion of on International Mathematics Day.
  - (f) March 16: Delivered an online talk on "Pi" in the International E-Seminar Advances in Mathematical Sciences (ISAMS-2022, Celebration of International Mathematics Day) organized by the Departments of Mathematics, Central University of Karnataka, Kalaburagi and Sri Venkatesh University, Tirupati.
  - (g) March 28: Delivered the *Fifth Bhupati Chandra Deka Memorial Lecture* on "Ramanujan and a glimpse of his mathematics" organized by the Departments of Mathematics, **Gauhati University**.
- (23) <u>In 2023</u>
  - (a) January 16–19: Delivered a series of five lectures on "Number Theory," in a Winter School in Mathematics for PG students of North-East Universities organized by Indian Statistical Institute North-East Centre, Tezpur during January 16–20, 2023.

- (b) February 25: Delivered two lectures on "Number Theory," in a Refresher Course in Mathematics for College/University Teachers and Research Scholars organized by Gauhati University, Assam during February 20–March 06, 2023.
- (c) March 14: Delivered a talk on "Pi" in the Celebration of International Mathematics Day organized by the Assam Academy of Mathematics, Sonitpur Branch and Departments of Mathematical Sciences, Tezpur University.
- (d) March 14: Delivered an online talk on "Pi" in the Celebration of International Mathematics Day organized by the Departments of Mathematics, Central University of Karnataka, Kalaburagi.
- (e) June 17: Delivered a talk on "Some new results on the Rogers-Ramanujan continued fraction" in a seminar organized by **Departments of Mathematics, Cotton University**.
- (f) November 20: Delivered a talk on "Number Theory" and participated in an interactive session with students to remove math phobia in a "Ganit Prajna Samvardhan, 2023" programme conducted by Vivekananda Kendra Siksha Prasar Vibhag (VKSPV), Guwahati, and organized by Vivekananda Kendra Vidyalaya, Tezpur held at Council Hall, Tezpur University.
- (g) December 22: Delivered a talk on "Ramanujan and his Mathematics" in a seminar held at Bhattadev University, Bajali and organized by Departments of Mathematics Bhattadev University, Bajali and Bhabanipur Anchalik College, Pathsala on the occasion of National Mathematics Day.
- (24) In 2024
  - (a) February 06–07: Delivered two invited talks, one on "Srinivasa Ramanujan and a glimpse of his mathematics" and another on "The Division Algorithm" in the Mathematical and Physical Sciences Division, School of Arts and Sciences, Ahmedabad University.
  - (b) **April 04**: Online interactive session with the students and teachers in the programme *Our Mathematician: Our Inspiration*, organized by **DIET**, **Sivasagar, Sonari, Assam**.
  - (c) September 09: Delivered an invited talk on "A Historical Account of Contributions of Indian Mathematicians to Pi" in the National Seminar on History of Science: Materials from ancient and medieval periods, jointly Organized by Tezpur University and Indian National Science Academy during September 09-10, 2024.
  - (d) **September 30**: Delivered an online invited talk on "DATABASES AND RESEARCH METRICS: Web of Science, Impact Factor, Scopus, h-index,

etc." in the Online Refresher Course on Research Methodology in Education and Social Sciences organized by Malaviya Mission Teacher Training Centre (MMTTC), Tezpur University during September 17-30, 2024.

- 17. Projects:
- (a) Completed a Fast Track Project for Young Scientist on "Ramanujan's Theory of Theta-functions and Modular Equations with Applications to His Continued Fractions and Related Fields," sponsored by DST, Govt. of India during June 20, 2003 – March 28, 2006.
- (b) Completed a three-years SERB MATRICS-PAC Mathematical Science Project on "A study on exact generating functions and congruences for partition functions associated to Ramanujan's mock theta functions and other related functions," sponsored by DST, Govt. of India during March 18, 2019– March 17, 2022).
- 18. Reviewing Experience:
  - (a) Served as a **Referee** of research articles for
  - Journal of Number Theory (Elsevier),
  - Journal of Mathematical Analysis and Applications (Elsevier),
  - Journal of Computational and Applied Mathematics (Elsevier),
  - Journal of Combinatorial Theory, Series-A (Elsevier),
  - Discrete Mathematics (Elsevier),
  - Advances in Mathematics (Elsevier),
  - Mathematical and Computer Modelling (Elsevier),
  - The Ramanujan Journal (Springer),
  - American Mathematical Monthly (Mathematics Association of America),
  - Acta Arithmetica (IMPAN),
  - Southeast Asian Bulletin of Mathematics (Springer),
  - International Journal of Number Theory (World Scientific),
  - Integral Transforms and Special Functions (Taylor and Francis),
  - Rocky Mountain Journal of Mathematics (RMM Consortium),
  - Advances in Difference Equations (Hindawi Publications),
  - Mathematical Sciences (Springer),

- Proceedings of the Edinburg Mathematical Society (Cambridge),
- The Electronic Journal of Combinatorics,
- Bulletin of the Brazillian Mathematical Society,
- Colloquium Mathematicum (Polish Academy of Sciences),
- Ars Combinatoria,
- Integers The Electronic Journal of Combinatorial Number Theory,
- Proceedings of the Jangjeon Mathematical Society,
- Functiones et Approximatio, Commentarii Mathematici,
- Asian European Journal of Mathematics,
- Acta Mathematica Vietnamica,
- Annali dell Universita di Ferrara,
- Note di Mathematica,
- Bulletin Mathmatique de la Socit des Sciences Mathmatiques de Roumanie (Bulletin of the Romanian Mathematical Society),
- The Indian Journal of Pure and Applied Mathematics (Indian National Science Academy),
- Journal of the Indian Mathematical Society,
- Hardy-Ramanujan Journal.
- Mathematics Student.
- (b) Served as a **Reviewer** for **Mathematical Reviews**, published by the **American Mathematical Society**, during **2003–2013**.
- 19. Editorial Experience:
  - (a) Member of the Editorial Committee for Journal of the Indian Mathematical Society from January 2022 onward.
  - (b) Member of the Editorial Committee for Journal of the Assam Academy of Mathematics from July 2022 onward.
- 20. Current Membership in the Scientific Societies:
  - Life Member, Assam Academy of Mathematics,
  - Life Member, Assam Science Society,
  - Life Member, Indian Mathematical Society,

- *Council Member*, Indian Mathematical Society, for the period April 01, 2020 March 31, 2023.
- 21. Member of Committees in other Institutes:
  - *Member*, Academic Advisory Committee, Institute of Advanced Study in Science and Technology (IASST), Guwahati, Assam,
  - *Member*, Board of Studies, Department of Mathematics, North-Eastern Hill University (NEHU), Meghalaya,
  - *Member*, Board of Studies, Department of Mathematics, Dibrugarh University, Assam,
  - *Member*, Board of Studies, Department of Mathematics, Cotton University, Assam,
  - *Member*, Board of Studies, Department of Mathematics, Rajiv Gandhi University, Arunachal Pradesh,
  - *Member*, Board of Studies, Department of Mathematics, North Lakhimpur College (Autonomous), Assam.
- 22. Notable Academic/Administrative Responsibilities:
  - *Head*, Department of Mathematical Sciences, Tezpur University, during September, 2008 April, 2011,
  - *Dean*, School of Sciences, Tezpur University, during April, 2011– April, 2014.
  - *Chairperson*, Tezpur University Entrance Examination, Tezpur University, during 2015 2016.
  - *Vigilance Officer*, Tezpur University, from July 24, 2017 to September 26, 2022.
  - Local Coordinator, Global Initiative of Academic Networks (GIAN), Phase I – Phase III (2016–2023). Coordinated in conducting eight GIAN Courses in Tezpur University.
    - • Last updated on September 30, 2024. • •