

Kallol Nath

Designation: Associate Professor

Qualification: M.Sc. (Gauhati University), Ph.D. (Tezpur University)

Specialization: Number Theory (Ramanujan's Mathematics, Theory of Partition)

Date of joining Sibsagar College, Joysagar: 20th December, 1999



Curriculum Vitae

Name: KALLOL NATH

Designation: Associate Professor

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Nationality: Indian

Sex: Male

Marital Status: Married

Date of Birth: 16-06-1973

Education:

- **H.S.L.C.** from **Pratap Chandra Institution, Gauripur**, Dhubri, Assam in 1989.
- **H.S.** from **Cotton College**, Guwahati, Assam in 1991.
- **B. Sc.** (with Mathematics Major) from **Cotton College**, Guwahati, Assam in 1994.
- **M. Sc.** in Mathematics from **Gauhati University** in 1996(97).
- **Ph. D.** in Mathematical Sciences from **Tezpur University** in 2013.

Thesis title: Contributions to t -core Partitions for Some Small t by Using Ramanujan's Theta Functions.

Supervisor: Prof. Nayandeeep Deka Baruah.

Details of Employment:

- **December 2013 – Present: Associate Professor**, Department of Mathematics, Sibsagar College, Joysagar, Sivasagar, Assam.
- **December 2010 – December 2013: Assistant Professor (stage-3)**, Department of Mathematics, Sibsagar College, Joysagar, Sivasagar, Assam.
- **January 2006 – December 2010: Assistant Professor (stage-2)**, Department of Mathematics, Sibsagar College, Joysagar, Sivasagar, Assam.
- **December 1999 – December 2005: Lecturer**, Department of Mathematics, Sibsagar College, Joysagar, Sivasagar, Assam.
- **August 1999- December 1999: Lecturer (ad-hoc)**, Department of Mathematics, Kokrajhar College, (Presently Kokrajhar Govt. College), Kokrajhar, Assam.
- **October 1998 - August 1999: Lecturer (ad-hoc)**, Department of Mathematics, Bijni College, Bijni, Assam.

Research Interest:

Number Theory, Ramanujan's Mathematics, Theory of Partition.

Research Publications in refereed journals:

- **Kallol Nath** (with *Nayandeep Deka Baruah*): Infinite families of arithmetic identities for 4-cores, **Bulletin of the Australian Mathematical Society**, Vol. 87, pp. 304–315, **2013**.
- **Kallol Nath** (with *Nayandeep Deka Baruah*): Two quotients of theta functions and arithmetic identities for 3-cores, in **The Legacy of Srinivasa Ramanujan**, B.C. Berndt and D. Prasad (eds.), RMS Lecture Notes Series, Ramanujan Mathematical Society, Vol. 20, pp. 99 –110, **2013**.
- **Kallol Nath** (with *Nayandeep Deka Baruah*): Some results on 3-cores, **Proceedings of the American Mathematical Society**, Vol. 142, pp. 441– 448, **2014**.
- **Kallol Nath** (with *Nayandeep Deka Baruah*): Infinite families of arithmetic identities for self-conjugate 5-cores and 7-cores, **Discrete Mathematics**, Vol. 321, pp. 57– 67, **2014**.

- **Kallol Nath** (with *Nayandeep Deka Baruah*): 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**.
- **Kallol Nath** (with *Nayandeep Deka Baruah*): Infinite families of arithmetic identities and congruences for bipartitions with 3-cores, **Journal of Number Theory**, Vol. 149, pp. 92–104, **2015**.