

# Curriculum Vitae

**Name** : B. Ramakrishnan.

**Nationality** : Indian.

**Academic Qualifications:**

B. Sc., (Mathematics), University of Madras, 1981.

M. Sc., (Mathematics), University of Madras, 1983.

M. Phil., (Mathematics), University of Madras, 1984.

Ph. D (Mathematics), University of Madras, 1990.

**Subject and Title of the Ph. D Thesis:**

Number Theory – “On Shimura and Shintani correspondence for Modular forms and Jacobi forms and some results on Hecke operators”

(**Thesis Supervisor:** Prof. T. C. Vasudevan, RKM Vivekananda College, Chennai.)

**Professional Experience:**

Jan 1984 – Dec 1988	CSIR Research Fellow <b>RKM Vivekananda College</b> , Chennai.
Oct 1990 – Oct 1992	Post-doctoral Fellow <b>The Institute of Mathematical Sciences</b> , Chennai.
Nov 1992 – 13 April 1993	Post-doctoral Fellow (NBHM fellowship) <b>Mehta Research Institute</b> , Allahabad.
14 April 1993 – July 1997	Fellow <b>Mehta Research Institute</b> , Allahabad.
August 1997 – Jul 2000	Reader <b>Mehta Research Institute</b> , Allahabad.
Aug 2000 – Jan 2001	Reader
Feb 2001– Jan 2004	Associate Professor
Feb 2004–Jan 2009	Professor ‘G’
Since Feb 2009	Professor ‘H’
(on lien from Dec 17, 2019)	<b>Harish-Chandra Research Institute</b> , (Formerly Mehta Research Institute), Prayagraj (Allahabad), India
Since Dec 18, 2019	Professor Department of Statistics and Applied Mathematics Central University of Tamil Nadu Neelakudi, Thiruvarur - 610 005 Tamil Nadu, INDIA

**Awards and honours:** Elected fellow of The National Academy of Sciences, India (2013).

Elected Treasurer of The National Academy of Sciences, India (2016–2019)

---

December 26, 2019

## List of Publications

### a. Research papers:

#### (i) Publication in international refereed journals:

- [1] Hecke operators on modular forms of half-integral weight, (with M. Manickam and T. C. Vasudevan), *Arch. Math.* **51** (1988), 343–352.
- [2] On the theory of newforms of half-integral weight, (with M. Manickam and T. C. Vasudevan), *J. Number Theory* **34** (1990), 210–224.
- [3] On Shintani correspondence, (with M. Manickam and T. C. Vasudevan), *Proc. Indian Acad. Sci. (Math. Sci.)* **99** (1989), 235–247.
- [4] Diagonalising modular forms of half-integral weight, (with M. Manickam and T. C. Vasudevan), *J. Number Theory* **40** (1992), 32–37.
- [5] On a remark of Atkin–Lehner, (with M. Manickam and T. C. Vasudevan), *J. Number Theory* **40** (1992), 251–253.
- [6] Addendum to On the theory of newforms of half-integral weight, (with M. Manickam and T. C. Vasudevan), *J. Number Theory* **42** (1992), 369–371.
- [7] On Saito–Kurokawa descent for congruence subgroups, (with M. Manickam and T. C. Vasudevan), *Manuscripta Math.* **81** (1993), 161–182.
- [8] A note on Hecke eigenforms, (with K. Chakraborty), *Arch. Math.* **63** (1994), 509–516.
- [9] A note on Jacobi forms of higher degree, (with K. Chakraborty and T. C. Vasudevan), *Abh. Math. Sem. Univ. Hamburg* **65** (1995), 89–93.
- [10] Modular forms which behave like theta series, (with K. Chakraborty and A. K. Lal), *Math. Comp.* **66** (1997), no. 219, 1169–1183.
- [11] Appendix (to [10]): On normalized modular forms of weights 20, 24 and 28 with non-negative integral Fourier coefficients, (with M. Manickam), *Math. Comp.* **66** (1997), no. 219, 1180–1183.
- [12] On Shimura, Shintani and Eichler–Zagier correspondences, (with M. Manickam), *Trans. Amer. Math. Soc.* **352** (2000), no. 6, 2601–2617.
- [13] Saito-Kurokawa correspondence of degree two for arbitrary level, (with M. Manickam), *J. Ramanujan Math. Soc.* **17**, No. 3 (2002) 149–160.
- [14] A Note on Certain Divisibility Properties of the Fourier Coefficients of Normalised Eisenstein Series, (with R. Thangadurai), *Expo. Math.* **21**, No. 1 (2003) 75–82.
- [15] An estimate for a certain average of the special values of character twists of modular  $L$ -functions, (with M. Manickam), *Proc. Amer. Math. Soc.* **133** (2005), 2515–2517.
- [16] Relations Among Fourier Coefficients of Certain Eta Products, (with Shaun Cooper, Sanoli Gun and Michael D. Hirschhorn), *Integers* **5** (2005), A , 8 pp. (electronic).
- [17] Distribution of quadratic non-residues which are not primitive roots, (with Sanoli Gun, Brundaban Sahu and R. Thangadurai), *Math. Bohem.* **130** (2005), 387–396.
- [18] An Eichler-Zagier map for Jacobi forms of half-integral weight, (with M. Manickam), *Pacific J. Math.* **227** (2006), no. 1, 143–150.

- [19] On the lacunarity of two eta-products, (with Shaun Cooper and Sanoli Gun), *Georgian Math. J.* **13** (2006), No. 4, 659–673 (Volume dedicated to the memory of Professor George Lomadze).
- [20] On the representation of integers as sums of an odd number of squares, (with Sanoli Gun), *Ramanujan J.* **15** no.3 (2008), 367–376.
- [21] On special values of certain Dirichlet  $L$ -functions, (with Sanoli Gun), *Ramanujan J.* **15** no.2 (2008), 275–280.
- [22] On the Fourier expansions of Jacobi forms of half-integral weight (with Brundaban Sahu), *International Journal of Mathematics and Mathematical Sciences*, vol. 2006, Article ID 14726, 11 pages, 2006.
- [23] A canonical subspace of modular forms of half-integral weight (with S.Gun and M. Manickam), *Math. Ann.* **347** (2010), 899–916.
- [24] Rankin’s Method and Jacobi Forms of Several Variables (with Brundaban Sahu), *J. Aust. Math. Soc.* **88** (2010), 131–143.
- [25] A note on special values of certain Dirichlet  $L$ -functions, *Bull. Aust. Math. Soc.* **83** (2011), no. 3, 435–438.
- [26] Evaluation of the convolution sums  $\sum_{l+15m=n} \sigma(l)\sigma(m)$  and  $\sum_{3l+5m=n} \sigma(l)\sigma(m)$  an application, (with Brundaban Sahu), *Int. J. Number Theory* **9** (2013), No. 3, 799–809.
- [27] On a correspondence between Jacobi cusp forms and elliptic cusp forms, (with Karam Deo Shankhadhar), *Int. J. Number Theory* **9** (2013), No. 4, 917–937.
- [28] On the Restriction Map for Jacobi Forms, (with K. D. Shankhadhar), *Abh. Math. Semin. Univ. Hambg.* **83** (2013), no. 2, 163–174.
- [29] On the number of representations of an integer by certain quadratic forms in sixteen variables, (with Brundaban Sahu), *Int. J. Number Theory* **10** (2014), no. 8, 1929–1937.
- [30] Jacobi forms and differential operators, (with Soumya Das), *J. Number Theory* **149** (2015), 351–367.
- [31] Theory of newforms of half-integral weight, (with M. Manickam and J. Meher), *Pacific Journal of Mathematics* **274** (2015), 125–139.
- [32] Evaluation of convolution sums and some remarks on cusp forms of weight 4 and level 12, (with Brundaban Sahu), *Math. J Okayama Univ.* **59** (2017), [2016 on cover], 71–79.
- [33] On the number of representations of certain quadratic forms in 20 and 24 variables, (with Brundaban Sahu), *Funct. Approx. Comment. Math.* **54** (2016), no.2, 151–161.
- [34] On the number of representations by certain octonary quadratic forms with coefficients 1, 2, 3, 4 and 6 (with Brundaban Sahu and Anup Kumar Singh), *Int. J. Number Theory* **14** (2018), no. 3, 751–812.
- [35] Estimates for Fourier coefficients of Hermitian cusp forms of degree two (with Arvind Kumar), *Acta Arith.* **183** (2018), no. 3, 257–275.
- [36] On the number of representations of certain quadratic forms and a formula for the Ramanujan Tau function (with Brundaban Sahu and Anup Kumar Singh), *Funct. Approx. Comment. Math.* **58** (2018), no. 2, 233–244.

- [37] Shimura and Shintani liftings of certain cusp forms of half-integral and integral weights (with Manish Kumar Pandey and Anup Kumar Singh), *Tsukuba J. Math.*, to appear (2020).

**(ii) Papers submitted for publication/preprints/in preparation:**

- [1] Shimura lifts of certain class of modular forms of half-integral weight (with Manish Kumar Pandey), submitted for publication 2018.
- [2] On triangular numbers, forms of mixed type and their representation numbers (with Lalit Vaishya), Preprint 2019.
- [3] Determining modular forms of half-integral weight by central values of convolution  $L$ -functions (with Manish Kumar Pandey), Preprint 2019.
- [4] On the number of representations of a natural number by certain quaternary quadratic forms (with Brundaban Sahu and Anup Kumar Singh), Preprint 2019.
- [5] Representation of squares by certain quinary and septenary quadratic forms (with Brundaban Sahu and Anup Kumar Singh), in preparation 2019.
- [6] Figurate numbers and modularity of their generating functions (with Lalit Vaishya), in preparation 2019.

**b. Research papers appeared in conference proceedings:**

(Item 1 is semi-expository)

- [1] On exceptions of integral quadratic forms, (with A. K. Lal), *Number Theory (Tiruchirapalli, 1996)*, 151–170, *Contemp. Math.* **210**, *Amer. Math. Soc., Providence, RI*, 1998.
- [2] The Theta-operator and the Divisors of Modular Forms, (with Sanoli Gun), *Number Theory*, 17–30, *Ramanujan Math. Soc. Lect. Notes Ser.*, 15, *Ramanujan Math. Soc. Mysore*, 2011.
- [3] Non-vanishing of  $L$ -functions associated to cusp forms of half-integral weight inside the critical strip, (with K. D. Shankhadhar), *Automorphic Forms*, B. Heim et al. (eds.), *Springer Proceedings in Mathematics & Statistics* **115**, (2014), 223–231.
- [4] Identities for the Ramanujan Tau Function and Certain convolution sum identities for the divisor functions, (with Brundaban Sahu), *Proceedings of the International Meeting on Number Theory HRI 2011, in honor of R. Balasubramanian*, *Ramanujan Mathematical Society, Lecture Notes Series Number* **23**, *Highly composite: Papers in Number Theory*, ed. V. Kumar Murty and R. Thangadurai (2016).
- [5] On the representations of a positive integer by certain classes of quadratic forms in eight variables (with Brundaban Sahu and Anup Kumar Singh), *Analytic number theory, modular forms and  $q$ -hypergeometric series*, 641–664, *Springer Proc. Math. Stat.*, **221**, Springer, Cham, 2017.
- [6] Representations of an integer by some quaternary and octonary quadratic forms (with Brundaban Sahu and Anup Kumar Singh), in *Geometry, algebra, number theory, and their information technology applications*, 383–409, *Springer Proc. Math. Stat.*, **251**, Springer, Cham, 2018.

- [7] On the number of representations of certain quadratic forms in 8 variables (with Brundaban Sahu and Anup Kumar Singh), *Automorphic Forms and Related Topics*, Samuele Anni et al. (eds.), 215–224, Contemp. Math. **732**, Amer. Math. Soc. Providence, RI, 2019.

**c. Volumes Edited:**

- [1] Current Trends in Number Theory, Edited by S. D. Adhikari, S. A. Katre and B. Ramakrishnan, Hindustan Book Agency, New Delhi 2002.  
(Proceedings of the HRI International Conference on Number Theory held in November 2000.)
- [2] Elliptic Curves, Modular Forms and Cryptography, Edited by A. K. Bhandari, D. S. Nagaraj, B. Ramakrishnan, and T. N. Venkataramana, Hindustan Book Agency 2003.
- [3] Number Theory and Applications, Edited by S. D. Adhikari and B. Ramakrishnan, Hindustan Book Agency, New Delhi 2009.  
(Proceedings of the International Conferences on Number Theory and Cryptography)
- [4] *Number Theory*, Ramanujan Mathematical Society Lecture Notes Series, Number **15**, (Proceedings in Honour of Prof. T.C. Vasudevan on his Sixtieth Birthday), Edited by M. Manickam and B. Ramakrishnan, Ramanujan Mathematical Society, India 2011.

**d. Expository articles:**

- [1] Theory of Newforms, Bull. Allahabad Math. Soc. **8/9** (1993/94), 69–89 (1997).
- [2] On the Eichler–Zagier map, Number theory and related topics (Seoul, 1998), 29–52, Yonsei Univ. Inst. Math. Sci., Seoul, 2000.
- [3] Theory of Newforms for the Maaß Spezialschar, *Cohomology of arithmetic groups, L-functions and automorphic forms (Mumbai, 1998/1999)*, 170–179, Tata Inst. Fund. Res. Stud. Math., 15, Tata Inst. Fund. Res., Bombay, 2001.
- [4] A brief introduction to modular forms, “*Cyclotomic Fields and Related Topics*” (Pune 1999), 219–238, Bhaskaracharya Pratishthana, Pune, 2000.
- [5] An Introduction to Modular Forms and Hecke Operators, (with M. Manickam), in *Elliptic Curves, Modular Forms and Cryptography*, Hindustan Book Agency (2003), 223–245.
- [6] On the representation of integers as sums of two, three and four squares, Math. Student **79** (2010), no. 1-4, (2011), 117–141.
- [7] Modular Forms of Half-integral Weight, Math. Student **81**, Nos. 1–4, (2012), 1–15.

**List of Ph.D Students guided/in progress:**

- (1) **Kalyan Chakraborty**, Year of Ph.D 1996 (Univ. of Allahabad).  
Current position: Professor, HRI, Allahabad.
- (2) **Sanoli Gun**, Year of Ph.D 2006 (Univ. of Allahabad).  
Current position: Associate Professor, The Institute of Mathematical Sciences, Chennai.
- (3) **Brundaban Sahu**, Year of Ph.D 2008 (Univ. of Allahabad)  
Current position: Associate Professor, NISER, Bhubaneswar.
- (4) **Somya Das**, Year of Ph.D 2010 (HBNI, Mumbai)  
Current position: Assistant Professor, Indian Institute of Science, Bangalore.
- (5) **Jaban Maher**, Year of Ph.D 2012 (HBNI, Mumbai)  
Current position: Assistant Professor, NISER, Bhubaneswar.
- (6) **Karam Deo Shankhadhar**, Year of Ph.D 2013 (HBNI, Mumbai)  
Current position: Assistant Professor, IISER, Bhopal.
- (7) **Arvind Kumar**, Year of Ph.D 2017 (HBNI, Mumbai)  
Current position: Post-doctoral Fellow, TIFR, Bombay.
- (8) **Anup Kumar Singh**, Year of Ph.D 2019 (HBNI, Mumbai)  
Current position: Post-doctoral Fellow, IISER, Berhampur.
- (9) **Manish Kumar Pandey**, Year of Ph.D 2019 (HBNI, Mumbai)  
Current position: Post-doctoral Fellow, IISER, Bhopal.
- (10) **Lalit Vaishya**, Ph.D student (HRI, Prayagraj) since 2015.
- (11) **Rishabh Agnihotri**, Ph.D student (HRI, Prayagraj) since 2017.

## Invited Talks given in International Conferences

1. International Conference on “ $L$ -functions” – The Fields Institute, Waterloo, Canada (March 1994).
2. International Conference on “Discrete Mathematics and Number Theory” (organised by the Ramanujan Mathematical Society) – Tiruchirapalli, India (January 1996).
3. “Analytic Number Theory 96” – RIMS, Kyoto, Japan (May 1996).
4. International Symposium on “Number Theory and Related Topics” (one of the main invited speakers) – Yonsei University, Seoul, South Korea (October 1998).
5. International conference on “Cohomology of Arithmetic Groups,  $L$ -functions and Automorphic forms” – TIFR, Mumbai, India (December 1998).
6. International conference on “Jacobi forms and applications”, Luminy, France (September 2001).
7. Conference on “Analytic Number Theory with special emphasis on  $L$ -functions”, IMSc, Chennai, India (January 2002).
8. The 18th Annual Workshop on “Automorphic Forms and Related Topics”, University of California, Santa Barbara, USA (March 2004).
9. Conference “On Additive Number Theory”, University of Florida, Gainesville, USA (November 2004).
10. “International Conference on Number Theory and Mathematical Physics”, Srinivasa Ramanujan Centre, SASTRA, Kumbakonam, India (December 2005).
11. The 20th Annual Workshop on “Automorphic Forms and Related Topics”, University of Colorado at Boulder, USA (March 2006).
12. Seminar Aachen-Köln-Lille-Siegen(AKLS) on Automorphic Forms, April 26, 2006, RWTH Aachen, Germany.
13. International Conference in Number Theory and Applications, RKM Vivekananda College, Chennai, India (Dec 2006).
14. The 21st Annual Workshop on “Automorphic Forms and Related Topics”, University of California, Santa Barbara, USA (March 2007).

15. International Conference on “Arithmetic Geometry”, Bangalore, India (March 2008).
16. International Conference on “Number Theory, PDE and Geometry”, University of Calicut, Calicut, India (August, 2009).
17. International Conference on “Analytic Number Theory”, TIFR, Mumbai, India (October 2009).
18. 24th Automorphic Forms Workshop, Honolulu, Hawaii, USA (March, 2010).
19. ICM Satellite Conference on Analytic and Combinatorial Number Theory, IMSc, Chennai, India (29 Aug to 03 Sep 2010).
20. “Explicit theory of automorphic forms, applications and computations”, CIRM, Luminy, France (May 2011).
21. “International Colloquium on Automorphic representations and L-functions”, TIFR, India, January 2012.
22. “International Workshop on Mathematics”, GUtech, Oman, February 2012.
23. “The Legacy of Srinivasa Ramanujan”, New Delhi, India, December 2012.
24. “Explicit Theory of Automorphic Forms”, Tongji University, Shanghai, China, March 2014.
25. “A conference in Number Theory”, celebrating 65th birthday of R. Balasubramanian, The Institute of Mathematical Sciences, Chennai, December 2014.
26. “Discussion Meeting on Analytic Number Theory”, TIFR, India, Jan 2015.
27. “Indo-French Conference”, IMSc, India, January 2016.
28. “2016 Gainesville Number Theory Conference (ALLADI 60)”, University of Florida, USA, March 2016.
29. “Conference on Number Theory celebrating the 70th birthday of Prof J.M. Deshouillers”, Kerala School of Mathematics, Kozhikode, January 2017.
30. “Number Theory: Arithmetic, Diophantine and Transcendence”, IIT, Ropar, December 2017.
31. “33rd Automorphic Forms Workshop”, Duquesne University, USA, March 2019.



## Special Lectures Delivered

1. “Modular Forms of Half-Integral Weight”, **22nd Srinivasa Ramanujan Memorial Award Lecture** delivered at the 77th Annual Conference of the Indian Mathematical Society, held at Swami Ramanand Teerth Marathawada University, Nanded on December 28, 2011.
2. Delivered a popular lecture on “**The Legacy of Ramanujan**” during the ‘(Kerala) State Level Inauguration of the National Mathematical Year-2012 & Launch of Activities in Mathematical Education’ organized by the Kerala State Council for Science, Technology and Environment at Thiruvananthapuram, Kerala on January 13, 2012.

## Academic Activities

### Courses given at MRI/HRI:

1. “Topics in Real Analysis” - 1993–94, 1994–95, 2000–2001, 2005-2006.
2. “Introduction to Modular forms” - 1994–95, 1996–97. 1998–99, 2012-13.
3. “Theory of Newforms” - 1994–95.
4. “Elementary Number Theory” - 2000–2001, 2002–2003 (Semester I).
5. “Modular forms of half-integral weight” - 2000–2001.
6. “Complex Analysis” - 2006-07.
7. “Analysis II” - 2009-10, 2010-11, 2014-15.
8. “Analysis I” - 2015-16, 2017-18.

### Courses given outside HRI:

1. “Introduction to modular forms”, A course given at IMSc, Chennai during 1991-92.
2. Gave a series of lectures under the Harish-Chandra endowment scheme on “Representation of integers as sums of squares” at the Dept. of Mathematics, Vivekananda College, Chennai during February 1999
3. Taught a course on Calculus (one semester) to the students of IIIT, Allahabad during August–December 2000.
4. Gave a series of lectures on “Jacobi Forms” at the ICM satellite workshop on ‘Modular Forms’ held at Mamallapuram, India during August 2010.
5. Gave a mini course on Elementary Number Theory at the Mini MTTS programme held at the Bhanasthali University, Bhanasthali during December 2010.
6. Gave a mini course (Masters course) on “Introduction to Modular Forms” at the Vivekananda University, Belur, India during February 2011.

## Academic Visits Abroad

- (1) Fields Institute, Waterloo and Dept of Mathematics, University of Toronto, Canada (March–April, 1994).
- (2) Dept. of Mathematics, Chuo University, Tokyo; Dept. of Mathematics, Univ. of Kinki, Fukuoka (Japan) (Two weeks in May/June 1996).
- (3) Dept. of Mathematics, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy (Three months: Jun–Aug, 1997).
- (4) Dept. of Mathematics, Inha University, Seoul (One week in October 1998).
- (5) Dept. of Mathematics, Nara Women’s University; University of Kyoto; Nagoya University, Japan (Two weeks in Oct/Nov, 1998).
- (6) Dept. of Mathematics, University of Toronto, Canada (One month - May, 2000).
- (7) Dept. of Mathematics, University of Paris Nord, Paris (One month - October 2001).
- (8) Dept. of Mathematics, University of Paris 6, Paris (One month - June 2002).
- (9) Institut des Hautes Études Scientifiques (IHES), Paris (One month - April 2006).
- (10) Department of Mathematics and Computational Sciences, University of Toronto at Mississauga, Mississauga, Canada (Two months - June, July 2006).
- (11) International Congress of Mathematicians (ICM 2006), Madrid, Spain (August 22–30, 2006).
- (12) Department of Mathematics and Computational Sciences, University of Toronto at Mississauga, Mississauga, Canada (One month May/June 2007).
- (13) Department of Mathematics, University of Toronto, Toronto, Canada (Six weeks Apr/May 2008).
- (14) Department of Mathematics, University of Siegen, Siegen and RWTH, Aachen, Germany (One week each in June 2008, 2011).

- (15) Institut Mathematiques de Jussieu (under Indo-French exchange programme), Paris, France, (Two weeks in September 2008).
- (16) Max-Planck Institute for Mathematics, Bonn, Germany, (One week in October 2008).
- (17) The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy (Two weeks in May/June 2011).
- (18) Department of Mathematics, RWTH-Aachen, Germany (one week in June 2011).
- (19) The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy (Two months during April–June, 2012).
- (20) RWTH, Aachen and the department of Mathematics, University of Siegen, Germany (April 28 to May 7, 2013).
- (21) Department of Mathematics, University of Toronto, July 2016.

### **Organiser/resource person in workshops, conferences and outreach programmes**

SN	Title of the workshop/programme	organised at	period	Role
1.	MTTS 1999	IIT Madras	May/June 1999	Resource person
2.	MTTS 2001	Pondicherry Univ.	May/June 2001	Resource person
3.	MTTS 2009	RIE, Mysore	May/June 2009	Resource person
4.	Mini MTTS	Banasthali Univ.	18–24 Dec 2010	Resource person
5.	Science academies Lecture workshop on Analysis	Miranda House, Delhi	10–12 Aug 2016	Resource person
6.	Winter School in Mathematics	CUTN, Thiruvapur	Dec 2016	Resource person

SN	Title of the workshop/programme	organised at	period	Role
7.	Summer School in Mathematics	CUTN, Thiruvapur	June 2017	Resource person
8.	Winter School in Mathematics	CUTN, Thiruvapur	Dec 2017	Resource person
9.	School on Modular forms	KSoM, Kozhikode	3–19 Oct 2012	Co-organiser and Resource person
10.	Workshop and International conference on automorphic forms and Number Theory	KSoM, Kozhikode	30/8 to 3/9 2013	Co-organiser and Resource person
11.	Annual Foundation School I (ATM School)	KSoM, Kozhikode	Dec 2013	Resource person
12.	Annual Foundation School II (ATM School)	KSoM, Kozhikode	May 2014	Resource person
13.	Workshop on Jacobi forms and modular forms of half-integral weight	KSoM, Kozhikode	2–12 Feb 2015	Co-organiser and Resource person
14.	ISL on Number Theory (ATM School)	KSoM, Kozhikode	5–17 Oct 2015	Resource person
15.	Workshop on Jacobi forms	KSoM, Kozhikode	10–16 Feb 2016	Co-organiser and Resource person
16.	School on Modular forms	KSoM, Kozhikode	12–24 Feb 2018	Co-organiser and Resource person
17.	School on Modular forms Phase II	KSoM, Kozhikode	3–14 Oct 2018	Co-organiser and Resource person
18.	School on Analytic Number Theory	KSoM, Kozhikode	27/11 to 1/12, 2018	Co-organiser and Resource person
19.	International Conference on Number Theory	KSoM, Kozhikode	Dec 10–14, 2018	Co-organiser
20.	Annual Foundation School I (ATM School)	HRI, Allahabad	May 2019	Resource person
21.	Annual Instructional School on Modular Forms (ATM School)	IIT, Guwahati	May/June 2019	Resource person

**Other activities:**

1. Dean (Academic) from January 12, 2015 to March 2018.
2. Dean of Administration (October 2005 – April 2009).
3. Convener, Board of Studies in Mathematical Sciences, HBNI, Mumbai 2017-18, 2018-19, 2019-20.
4. Convener of Faculty Recruitment Committee (Maths).
5. Convener of the Graduate Studies Committee (Mathematics) 1995-96, 1999-2000, 2000-2001, 2005-2006. (Member during the years 1994-95, 2003-04)
6. Convenor, JEST (Mathematics) 2003.
7. Member of Maintenance Committee and Purchase Committee 2003-2004.
8. Convener of the Library committee for the year 2001-2002.
9. Member of the Transport committee for the year 2001-2002.
10. Member of the Library committee for the years 1999-2000, 2000-2001.
11. Coordinated the follow-up winter programme for the students selected from the M. T. & T. S. programme in December 2000 at HRI, Allahabad.
12. One of the organisers of the “Advanced Instructional Workshop on Algebraic Number Theory” held at HRI, Allahabad during November 8–25, 2000.
13. One of the organisers of the “International Conference on Number Theory” held at HRI, Allahabad during November 26–29, 2000.
14. One of the organisers of the “International Conference on Number Theory” held at HRI, Allahabad during December 1–5, 2006.
15. Convenor of the Guest House and Pantry committee, 2008-09, 2009-2010.
16. Organized a symposium on “Modular Forms and  $L$ -functions” as part of the 74th Annual conference of the Indian Mathematical Society held at the University of Allahabad during December 2008.
17. Organized a “Discussion Meeting on Modular Forms” at HRI during the period Feb 21 to March 6, 2009. This was organized under the XI plan project (Special Years in Mathematics - SYM).

18. One of the organizers of the International Conference in Mathematics held at HRI during the period March 7,8 & 16 to 20, 2009 and one of the organizers of the International Meeting on Number Theory (IMNT 2011) held during December 2011. These conferences are organized under the XI plan project (SYM).

19. Advisory committee member of the UGC-SAP DRS-1 programme (Mathematics) of the Lucknow University.

20. Member of the National Library Committee of NBHM (North Central Zone), 2007, 2018.

21. Member of the Board of Studies of the HBNI for Mathematical Sciences, 2016-17.

22. Coordinator for the XI plan project SYM and the XII plan project STEM.

23. Member of the Assessment Review Committee of UGC-SAP DRS Phase III, Dept. of Mathematics, Burdwan University, Burdwan, 2012.

24. Member of the Board of Studies (Mathematical Sciences), RKMVERI, Belur, 2018-19.

**Project:**

NBHM sponsored project titled “ The study of Jacobi forms of higher degree” was carried out with Dr. M. Manickam, Vivekananda College, Chennai, 1998.