

## Department of Mathematics

### Annual Report 2023-24

#### Key Points:

1. After Reaccredited by NAAC "A" grade in 2022 College obtained Autonomous College status.
2. Department of Mathematics implemented National Education Policy (NEP) 2020 from the Academic year 2023-24
3. The department prepared its new curriculum for FYBSC as per the guidelines of NEP by constituting BOS in Mathematics

#### Activities:

The department organized following Academic activities for the students in 2023-24

1. **Field Visit:** The department of Mathematics organized a Field visit to The Institute of Chemical Technology (ICT), Mumbai on 26th September 2023.
2. **Invited talk:** Department of Mathematics organized a special Lecture on "Glimpses of Ancient Indian Mathematics" By Prof. Srikrishna Dani on 9th October 2023. Professor S. G. Dani is a distinguished Mathematician and recipient of Shanti Swarup Bhatnagar award.
3. **National Mathematics Day:** Department of Mathematics celebrated National Mathematics day on 22nd December 2024 on the occasion of birth anniversary of the great Indian Legendary Mathematician Srinivasa Ramanujan. On this occasion the department organized a Poster making competition and arranged a book exhibition.
4. **Netaji Subhash Chandra Bose Jayanti:** The Department of Mathematics celebrated "Netaji Subhash Chandra Bose Jayant" on 23<sup>rd</sup> January 2024. On this occasion a Two line short slogan contest was organized online to fill up the lines after "I Love my country because . . ."
5. **Certificate Course:** Department of Mathematics organized a certificate course on "Vedic Mathematics Tricks for Fast Calculations" in collaboration with the Internal Quality Assurance Cell (I.Q.A.C.) on 8th January, 2024 to 3rd February, 2024.
6. **Special lecture series:** Department of Mathematics organized special lectures in interactive nature for FYBSC and SYBSC students by research scholar Mr. Parvez Rasul in Multivariable Calculus and Linear Algebra from 11<sup>th</sup> March 2024. Mr Pervez Rasul was awarded Prime minister research fellowship and doing PhD in Mathematics at IIT Bombay.
7. **Remedial lectures:** Remedial lectures were conducted for ATKT students of FYBSC and SYBSC.

**Faculty Contribution to College:** The faculty actively participated in the activities organized by the college and contributed time for conducting University and College Examinations, Admission work, Result Processing work.

## Faculty Achievements:

Dr. Gollakota V V Hemasundar

1. Published research paper on "Some Methods of Constructing Transcendental Numbers", Palestine Journal of Mathematics, Vol. 12(2), 268-273, (2023) ISBN:2219-5688  
Listed in SCOPUS, UGC CARE List
2. Granted a Research project by the National Board for Higher Mathematics (NBHM) & Department of Atomic energy (DAE) GOVT. of India.  
No. 02011/6/2023 R&D II /4301.
3. Elected Member of Executive Council of APTSMS, Andhra Pradesh and Telangana Mathematical Society for the term 2022 -2024
4. Nominated as V.C. Nominee for the Member of the Board of Studies in Mathematics, SIES College and Kirti College, Mumbai.
5. Invited to give a talk at the UGC sponsored two day National Conference on "Mathematics, Statistics and Data Analysis using R" at the Acharya Nagarjuna University, Guntur.
6. Presented paper in the "International Conference on Computational Modelling in Science and Engineering" held at the National Institute of Technology, Warangal, Telangana.

Dr. Rama Vijaykumar:

1. Published paper "Awareness & Perception of Vedic Mathematics under NEP 2020: Indian Knowledge System" Journal of Advanced Multidisciplinary Research Studies and Development, 2023. ISSN: 2583-6404
2. Invited talk on "Deciphering the sutras: Unravelling Brahmagupta's varied equations", Feb 22-24, 2024, International conference on advancement in Natural Sciences: Vedic to Modern era at Shri Ramswaroop Memorial University, Lucknow.
3. Presented paper on "The Art of Calculation: Lilavati's Rāśīkam for finding unknown term." Feb 22-24, 2024, International conference on advancement in Natural Sciences: Vedic to Modern era at Shri Ramswaroop Memorial University, Lucknow.
4. Invited as Resource Person on "Mathematics of DSP in Hearing Aid Equipment" on 28<sup>th</sup> July 2023, at Dhempe College of Arts and Science, Goa.
5. Nominated as V.C. Nominee for the Member of the Board of Studies in Mathematics, Lala Lajpat Rai College, Mumbai.
6. Contributed a chapter in the book on "Indian Knowledge System -Vedic Mathematics: Enabling Students to Learn mathematics with Different Approach", on "Challenges and Opportunities envisioning the Paradigm Shift in Education and Research, Ghanshyamdas Saraf College of Arts and Commerce

*G. Hemasundar*

Head

Dept. of Mathematics

Dr. G. V. V. Hemasundar



*Manali Londhe*

Principal

Dr. Manali Londhe