

## Department of Mathematics

### Annual Report 2022-23

#### Key Points:

1. The College was Re-accredited by NAAC "A" grade.

#### Activities:

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

1. **Invited talk:** On the Occasion of 75<sup>th</sup> Azadi Ka Amrit Mahotsav, Department of Mathematics organized a special Lecture on "Innovations through Digital Agriculture in India" By Prof. J. Adinarayana 8<sup>th</sup> August 2022. Professor Adinarayana is a Chair Professor in IIT Bombay and visiting researcher to several reputed institutes overseas.
2. **National Mathematics Day:** Department of Mathematics celebrated National Mathematics day on 22<sup>nd</sup> December on the occasion of birth anniversary of the great Indian Legendary Mathematician Srinivasa Ramanujan. On this occasion the department displayed Poster depicting the Life of Srinivasa Ramanujan prepared by the students.
3. **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.) from 12th November to 2nd December, 2022.
4. **Special lecture series:** Department of Mathematics organized special lectures for SYBSC students by research scholar Mr. Swapan Jana in Algebra and Analysis from 25<sup>th</sup> February 2023. Mr Swapan Jana was awarded Prime minister research fellowship and doing PhD in Mathematics at IIT Bombay.
5. **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 as key members.

## Faculty Achievements

### Dr. Gollakota V V Hemasundar

1. 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 on 30<sup>th</sup> March 2023.
2. Recognised as PhD guide of Department of Mathematics, University of Mumbai.
3. Published a paper on "A Note on Weierstrass points of Hyperelliptic Riemann surfaces" Journal of Indian Academy of Mathematics pp. Vol. 44 No. 2 2022 pp. 83-88, ISSN: 0970-5120.
4. Published a paper on "Role of Automorphism groups in Geometric function theory", International Journal of Pure and Applied Mathematical Sciences, pp.29-32, Vol. 15, ISSN: 0972-9828
5. Research paper uploaded on "Proof of Weierstrass Gap theorem", in arXiv 2206.14572v1 [math.CV], 18th June 2022, 1-5, ISSN: 2331-8442
6. (BOOK) "An Introduction to the Calculus of Residues", Techno World Publications, November 2022, ISBN: 978-93-92145-49-0
7. Elected as Member of Executive Council of APTSMS, Andhra Pradesh and Telangana Mathematical Society for the terms 2022 -2023, 2023-24.
8. Nominated as V.C. Nominee for the Member of the Board of Studies in Mathematics, of SIES College and Kirti College.
9. Member of selection committee of PhD students of Department of Mathematics, Mumbai University
10. Invited talk on "Weierstrass gap theorem And its Consequences", International Conference on Algebra, Analysis and Applications (ICAAA-2023), Manipal Institute of Technology (MIT), Udipi.
11. Invited talk on "Conformal self-maps of plane domains of finite connectivity" National conference in Mathematics & applications, Acharya Nagarjuna University, Andhra Pradesh
12. Invited talk on "Transcendental Numbers", Math-O-Verse, On National Mathematics Day, KLE Society, Science and Commerce College, New Mumbai
13. Invited talk on "Contributions of Sriram Abhayankar", in Mathlets 2023, Khalsa College, Mumbai

### Dr. Rama Vijaykumar

1. Paper Presentation entitled "Evolution of Equations by Brahmagupta" September 24-25, 2022, National conference on "Advances in Mathematics and its Applications", Organised by Bharata Ganita Parisad (BGP) & Department of Mathematics and Astronomy, University of Lucknow, Lucknow.
2. Convener of the Certificate Course on " Vedic Mathematics Tricks for Beginners" on 12th November to 2nd December, 2022.
3. Invited Lecture on the Topic "Journey of our Numbers", 23<sup>rd</sup> September, 2022, Shri Ramswaroop Vedic Vigyan evam Navachar Kendra (SRVVNK), Shri Ramswaroop Memorial University, Dewa Road, U.P. India.

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